# **Safety Data Sheets**

**CD-HF** 



## **Roadyard Benson field**

03/06/2018



## Safety Data Sheet Index

## Binder: Roadyard Benson field - CD-HF

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Upside Down Marking Paints - White - Upside Down Marking Paints - White		CRC Industries, Inc.	10/01/2013	359
WD-40 Smart Straw Aerosol - WD-40 Smart Straw Aerosol		WD-40 Company	03/01/2016	367

## SAFETY DATA SHEET

#### 1. Identification

Product number Product identifier Company information Company phone Emergency telephone US	1000028765 <b>18 OZ NAPA MAC'S BRAKE PARTS CLEANER 4700</b> NAPA Balkamp 2601 S. Holt Road Indianapolis, IN 46241 United States General Assistance 1-317-244-7241 1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version # Recommended use Recommended restrictions	01 CLEANER None known.

#### 2. Hazard(s) identification

Physical hazards		
Health hazards		
OSHA defined hazards		

Label elements

Gases under pressure Carcinogenicity Not classified. Compressed gas Category 2



Signal word	Warning				
Hazard statement	Contains gas under pressure; may explode if heated. Suspected of causing cancer.				
Precautionary statement					
Prevention	Obtain special instructions before use. Do not and understood. Wear protective gloves/prote	handle until all safety precautions have been read ctive clothing/eye protection/face protection.			
Response	If exposed or concerned: Get medical advice/a	attention.			
Storage	Store locked up. Protect from sunlight. Store in a well-ventilated place.				
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.				
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2			
	Hazardous to the aquatic environment, long-term hazard	Category 2			
Hazard(s) not otherwise classified (HNOC)	None known.				
Supplemental information	None.				

#### 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Perchloroethylene		127-18-4	90 - 100
Carbon Dioxide		124-38-9	1 - 2.5

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact	No adverse effects due to skin contact are expected.
	·
Eye contact	No specific first aid measures noted.
Ingestion	Not likely, due to the form of the product.
Most important symptoms/effects, acute and delayed	Headache. Dizziness. Nausea.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Cool containers exposed to flames with water until well after the fire is out.

**General fire hazards** Contents under pressure. Pressurized container may explode when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	

Precautions for safe handling Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Level 1 Aerosol.

Store locked up. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

Components		Туре		١	/alue
Carbon Dioxide (CAS 124-38-9)		PEL		ę	0000 mg/m3
,				5	5000 ppm
US. OSHA Table Z-2 (29	CFR 1910.1000)				
Components		Туре		١	/alue
Perchloroethylene (CAS 127-18-4)		Ceilin	g	2	200 ppm
,		TWA		1	00 ppm
US. ACGIH Threshold Li	mit Values				
Components		Туре		١	/alue
Carbon Dioxide (CAS 124-38-9)		STEL		3	30000 ppm
		TWA		5	5000 ppm
Perchloroethylene (CAS 127-18-4)		STEL		1	00 ppm
		TWA		2	25 ppm
US. NIOSH: Pocket Guid	e to Chemical Haz	ards			
Components		Туре		١	/alue
Carbon Dioxide (CAS 124-38-9)		STEL		5	54000 mg/m3
				3	30000 ppm
		TWA		ç	9000 mg/m3
				5	5000 ppm
ogical limit values					
ACGIH Biological Expos	ure Indices				
Components	Value		Determinant	Specimen	Sampling Time
Perchloroethylene (CAS	0.5 mg/l		Tetrachloroethy	Blood	*

\* - For sampling details, please see the source document.

3 ppm

#### **Exposure guidelines**

127-18-4)

#### US - Minnesota Haz Subs: Skin designation applies

Perchloroethylene (CAS 1	27-18-4) Skin designation applies.
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures,	such as personal protective equipment
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing. Use of an impervious apron is recommended.

End-exhaled

air

lene

lene

Tetrachloroethy

Respiratory protection	If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Aerosol. Compressed gas.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	100 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.621 estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Hydrogen chloride.

#### 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Headache. Dizziness. Nausea.

#### Information on toxicological effects

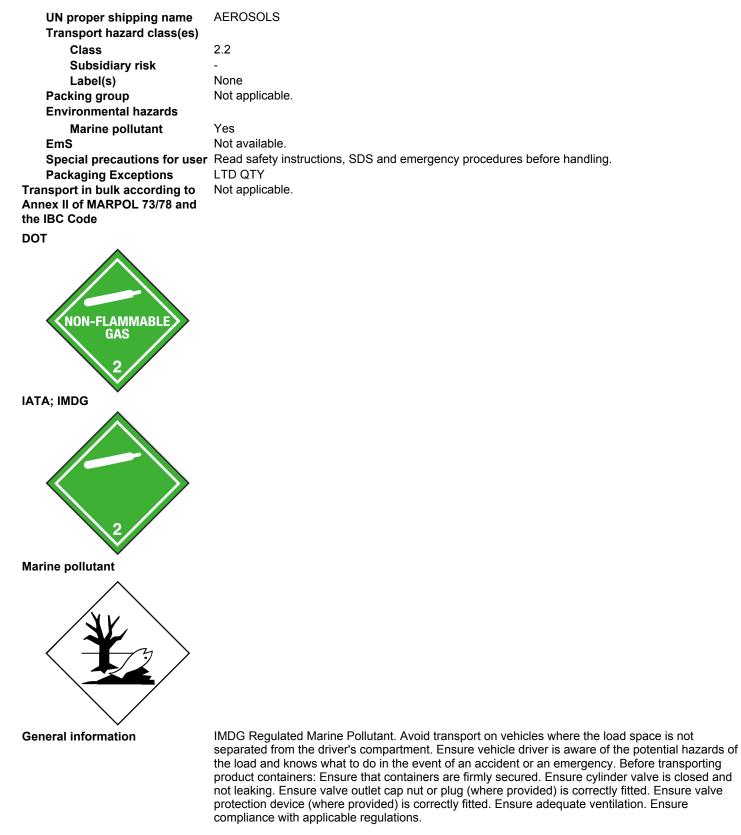
#### Acute toxicity

Acute toxicity			
Components	Species	Test Results	
Perchloroethylene (CAS 127-18-4	)		
Acute			
Inhalation			
LC50	Dog; Mouse; Rabbit; Rat	3000 ppm	
Oral			
LD50	Cat; Dog; Mouse; Rabbit; R	at > 1500 mg/kg	
	Rat	3005 mg/kg	
* Estimates for product may b	e based on additional componer	it data not shown.	
Skin corrosion/irritation	Prolonged skin contact may ca	ause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may o	ause temporary irritation.	
Respiratory or skin sensitization	n		
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Suspected of causing cancer.		
IARC Monographs. Overall	Evaluation of Carcinogenicity		
Perchloroethylene (CAS		2A Probably carcinogenic to humans.	
Not regulated.	ed Substances (29 CFR 1910.1)	01-1050)	
•	ogram (NTP) Report on Carcin	ogens	
Perchloroethylene (CAS		Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not likely, due to the form of the	ie product.	
Chronic effects	Prolonged inhalation may be h	armful. Prolonged exposure may cause chronic effects.	
12. Ecological informatior	1		
Ecotoxicity	Toxic to aquatic life with long I	asting effects.	
Components	Species	Test Results	
Perchloroethylene (CAS 127			

Perchloroethylene (CA	AS 127-18-4)		
Aquatic			
Crustacea	EC50	Daphnia	7.55 mg/L, 48 Hours
		Water flea (Daphnia magna)	6.1 - 9 mg/l, 48 hours

Components	Species	Test Results	
Fish	LC50 Rainbow trout,donaldson trout (Oncorhynchus mykiss)	4.82 mg/l, 96 hours	
* Estimates for product may I	be based on additional component data not shown.		
Persistence and degradability	No data is available on the degradability of this p	roduct.	
Bioaccumulative potential			
Partition coefficient n-octain Perchloroethylene	nol / water (log Kow) 3.4		
Mobility in soil	No data available.		
Other adverse effects	No other adverse environmental effects (e.g. ozo potential, endocrine disruption, global warming po		
13. Disposal consideratio	ns		
Disposal instructions	Collect and reclaim or dispose in sealed containe under pressure. Do not puncture, incinerate or cri sewers/water supplies. Do not contaminate ponde container. Dispose of contents/container in accor regulations.	ush. Do not allow this material to drain into s, waterways or ditches with chemical or used	
Local disposal regulations	Dispose in accordance with all applicable regulation	ions.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Since emptied containers may retain product resi emptied. Empty containers should be taken to an disposal. Do not re-use empty containers.		
14. Transport information	1		
DOT			
UN number	UN1950		
UN proper shipping name Transport hazard class(es)	Aerosols, non-flammable, (each not exceeding 1	L capacity)	
<b>.</b>			

UN proper shipping name	Aerosols, non-flammable, (each not exceeding 1 L capacity)
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Label(s)	2.2
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950



#### 15. Regulatory information

#### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Perchloroethylene (C	ostance List (40 CFR 302.4)			
SARA 304 Emergency re	AS 127-18-4) Please notification	Listed.		
Not regulated. OSHA Specifically Regu	lated Substances (29 CFR 19	910.1001-1050)		
Not regulated.		,		
•	Reauthorization Act of 1980	S (SARA)		
Hazard categories	Immediate Hazard - No Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No			
SARA 302 Extremely ha: Not listed.	zardous substance			
SARA 311/312 Hazardou chemical	is No			
SARA 313 (TRI reporting	)			
Chemical name		CAS number	% by wt.	_
Perchloroethylene		127-18-4	90 - 100	
other federal regulations				
Clean Air Act (CAA) Sec	tion 112 Hazardous Air Pollu	ıtants (HAPs) List		
Perchloroethylene (C. Clean Air Act (CAA) Sec	AS 127-18-4) tion 112(r) Accidental Releas	se Prevention (40 CFR	68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
S state regulations				
US. California Controlleo	d Substances. CA Departme	nt of Justice (Californi	a Health and Safety C	ode Section 11100)
US. California. Candidate (a)) Perchloroethylene (CA US. Massachusetts RTK		sumer Products Regul	ations (Cal. Code Re	gs, tit. 22, 69502.3, subd.
Carbon Dioxide (CAS Perchloroethylene (C	5 124-38-9) AS 127-18-4)			
-	and Community Right-to-Kn	ow Act		
Carbon Dioxide (CAS Perchloroethylene (CA				
	,			
US. Pennsylvania Worke		(now Law		
Carbon Dioxide (CAS Perchloroethylene (C	5 124-38-9)	(now Law		
Carbon Dioxide (CAS Perchloroethylene (CA US. Rhode Island RTK	5 124-38-9) AS 127-18-4)	Know Law		
Carbon Dioxide (CAS Perchloroethylene (CA <b>US. Rhode Island RTK</b> Perchloroethylene (CA	5 124-38-9) AS 127-18-4) AS 127-18-4)	(now Law		
Carbon Dioxide (CAS Perchloroethylene (CA US. Rhode Island RTK Perchloroethylene (CA US. California Propositio	5 124-38-9) AS 127-18-4) AS 127-18-4) on <b>65</b>		is to source appear	
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8/9

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	07-07-2016
Version #	01
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

## **SAFETY DATA SHEET**



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2012) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

#### **SECTION 1: IDENTIFICATION**

#### 1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 870211
- PRODUCT NAME: 21 OZ: Cleanser -Powerful Cleaning Action with Bleach

#### 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

- RECOMMENDED USE: For cleaning.
- IDENTIFIED USERS: For sale to, use and storage by service persons only.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

MANUFACTURER/

SUPPLIER:

#### WAXIE Sanitary Supply

- ADDRESS 9353 Waxie Way; San Diego, CA 92123-1036
  - BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

#### 1.4 OTHER PERTINENT INFORMATION

• This product is sold and used in relatively small volumes. This SDS has been developed to address safety concerns affecting small volume handling situations and those involving warehouses and workplaces where large numbers of these items are stored or distributed.

#### **SECTION 2: HAZARD IDENTIFICATION**

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### **OSHA/HCS Status**

Classification of the Substance or MixtureSkin Corrosion/Irritation, Category 2; Serious Eye Damage/Eye Irritation, Category 2A; Specific Target Organ Toxicity (single exposure), Category 32.2 LABEL ELEMENTS Hazard PictogramsSignal Word Hazard StatementsPrecautionary Statements PreventionWarning. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.ResponseKeep out of reach of children. Avoid breathing dusts. Wear protective gloves and eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF INHALED: Remove person to tresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if exposed or you feel unwell.	Storage Disposal	None specified. See section 7 for details. None specified. See section 13 for details.	
Mixture       2A; Specific Target Organ Toxicity (single exposure), Category 3         2.2 LABEL ELEMENTS       Image: Category 3         Hazard Pictograms       Image: Category 3         Signal Word       Image: Category 3         Hazard Statements       Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.         Precautionary Statements       Image: Category 3		eye protection. IF IN EYES: Rinse cautiously with water for several lenses, if present and easy to do. Continue rinsing. I medical advice/attention. IF ON SKIN (or hair): Was irritation occurs, get medical advice/attention. IF INI fresh air and keep comfortable for breathing. Call a I	minutes. Remove contact f eye irritation persists, get sh with plenty of water. If skin HALED: Remove person to
Mixture       2A; Specific Target Organ Toxicity (single exposure), Category 3         2.2 LABEL ELEMENTS       Image: Comparison of the system of the	-	irritation.	
Mixture       2A; Specific Target Organ Toxicity (single exposure), Category 3         2.2 LABEL ELEMENTS	-		May cause respiratory
Mixture         2A; Specific Target Organ Toxicity (single exposure), Category 3			
USHA/INCS Status	Mixture		

## SECTION 2: HAZARD IDENTIFICATION (Continued)

#### 2.3 OTHER PERTINENT HAZARDS NOT OTHERWISE CLASSIFIED

• **OTHER POTENTIAL HEALTH EFFECTS:** Note – the Crystaline silica impurity within the Limestone maycause respiratory system injury and potentially cancer if inhaled above safe limits.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCES/MIXTURES

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w)
Limestone	1317-65-3	Not classified.	< 90.0
Sodium Carbonate	497-19-8	Eye irritation (Category 2A); Acute Toxicity – Oral (Category 5)	<10.0
Benzenesulfonic acid, C10-16- alkyl derivs.	68584-22-5	Acute Toxicity/Oral (Category 4) Serious eye damage/Irritation (Category 1) Skim Damage/Corrosion (Category 1C); Specific target organ toxicity - single exposure (Category 3, Central nervous system)	< 5.0
Trichloroisocyanuric acid	87-90-1	Oxidizing solids (Category 2); Acute toxicity, Oral (Category 4); Skin irritation (Category 2); Eye irritation (Category 2A); Specific target organ toxicity - single exposure (Category 3, Respiratory system); Acute aquatic toxicity (Category 1); Chronic aquatic toxicity (Category 1)	<1.0
Silica	Not applicable .	Specific target organ toxicity - repeated exposure, Inhalation (Category 2).	Impurity within Limestone.
Other components that do not of formulation.	contribute health o	r physical hazards at the concentrations present in the	Balance

## **SECTION 4: FIRST AID MEASURES**

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED

Eye ContactFlush with copious amounts of water. "Roll" eyes during flush. Check for and<br/>remove contact lenses. Seek medical attention if irritation persists.Skin ContactFlush with copious amounts of water. Seek medical attention if irritation persists.InhalationObtain fresh air. Blow nose. Seek medical attention if irritation persists.IngestionIf conscious only: Rinse mouth with water. Drink several cups of water. Do not<br/>induce vomiting. Contact a Poison Control Center or physician for instructions.

#### 4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

#### • ACUTE HEALTH EFFECTS:

AREA EXPOSED	
Eye Contact	Cause serious eye irritation.
Skin Contact	Skin contact can be mildly or moderately irritating, depending on duration of exposure.
Inhalation	May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of dusts/particulates inhaled.
Ingestion	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.

- **CHRONIC HEALTH EFFECTS:** None anticipated under usual circumstances of use. Because of the presence of silica, prolonged inhalation of particulates may cause adverse effects on the lungs and other tissues of the respiratory system.
- **TARGET ORGANS:** Skin, eyes, respiratory system.

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#### SECTION 4: FIRST AID MEASURES (Continued)

#### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- **GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.
- **RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None reported.

#### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

- **RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, Halon, or any other.
- UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

#### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

• NFPA FLAMMABILITY CLASSIFICATION:

NFPA Rating



**NFPA Classification** 

Not flammable.

UNUSUAL HAZARDS IN FIRE SITUATIONS:

Decomposition Products

Explosion Sensitivity to Mechanical Impact Explosion Sensitivity to Static Discharge

Carbon dioxide, carbon monoxide, silicate and nitrogen compounds, and irritating vapors.

Not applicable. Not applicable.

#### 5.3 ADVICE FOR FIREFIGHTERS

• Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Because this is product is a cleaning agent, any equipment that comes in contact with the powder can be rinsed thoroughly with water and then returned to service.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- RESPONSE TO INCIDENTAL RELEASES: Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses should be worn when cleaning-up spills, to avoid prolonged contact and protection from dusts/particulates.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material, and the material is in packaged form. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incidental releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Sweep up spilled material carefully; spray with a light water mist to suppress dust generation, if necessary. Remove remaining residue with damp polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a cleaning agent, all items that come in contact with the product can be returned to service after cleaning.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (Continued)

#### 6.2 ENVIRONMENTAL PRECAUTIONS

• Avoid response actions that can cause a release of a significant amount of product into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

#### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

• SPILL RESPONSE EQUIPMENT: Broom/dustpan; polypad or other absorbent material.

#### 6.4 **REFERENCES TO OTHER SECTIONS**

- SECTION 8: For exposure levels and detailed personal protective equipment recommendations.
- **SECTION 13:** For waste handling guidelines.

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Hygiene Practices	Keep out of reach of children. Follow good chemical hygiene practices. Avoid inhalation of dusts/particulates. Avoid contact with eyes and skin. Clean up spilled product immediately.		
Handling Practices	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.		
CONDITIONS FOR SAFE S	FORAGE, INCLUDING ANY INCOMPATIBILITIES		

**Storage Practices** Ensure all containers are correctly labeled. Store containers away from direct sunlight or sources of intense heat. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers should be handled with care, as product residue may remain.

Incompatibilities See Section 10 (Stability and Reactivity).

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

7.2

• **AIRBORNE EXPOSURE LIMITS:** Airborne exposures are not anticipated when the product is used in pre-packaged form. The following limits are recommended if exposure to dusts/powder is possible.

COMPONENT	ACGIH TLV	OSHA PEL	NIOSH REL	OTHER
Crystalline Silica, Quartz (Impurity within limestone)	0.025 mg/m3 (Respirable Fraction)	<u>30 mg/m3</u> %SiO2 + 2 (Total Dust) <u>250 mppcf</u> %SiO2 + 5 (Respirable Fraction)	0.05 mg/m3 (Respirable Fraction)	NE
Particulates (Not Otherwise Specified)	NE	15 mg/m <sup>3</sup> (TWA; Total Dust) 5 mg/m <sup>3</sup> (TWA, Respirable Fraction)	NE	NE

#### • BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

#### 8.2 EXPOSURE CONTROLS

Engineering Controls Respiratory Protection Hand Protection Eye Protection Body Protection Use in well-ventilated environment. None needed in normal circumstances of use. Neoprene, PVC, or butyl gloves are recommended. Safety glasses. Not applicable.

#### 8.3 PERSONAL PROTECTION SYMBOLS

Hand Protection



Eye Protection



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#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, powder.
Odor	Odorless.
Odor Threshold	Not applicable.
pH	9.5 – 11.49 (10% aq)
Melting Point/Freezing Point	Not applicable.
Initial Boiling Point/Boiling Range	Not applicable.
Flash Point	Not applicable.
Evaporation Rate (Water = 1)	Not applicable.
Flammability	Not applicable.
Upper/Lower Explosive Limits	Not applicable.
Vapor Pressure	Not applicable.
Vapor Density	Not applicable.
Density	Not determined.
Solubility	1.3 (Specific Gravity)
Partition Coefficient/n-	Partially soluble.
octanol/water	Not applicable.
Autoignition Temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	Not applicable.

#### 9.2 OTHER INFORMATION

- VOC (less water & exempt): Not applicable.
- WEIGHT% VOC: Not applicable.

## SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

• Not reactive under typical conditions of use or handling.

#### 10.2 CHEMICAL STABILITY

• Normally stable under standard temperatures and pressures.

#### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

- This product is not self-reactive, water-reactive, or air-reactive.
- This product will not undergo hazardous polymerization.

#### 10.4 CONDITIONS TO AVOID

• Avoid contact with incompatible chemicals.

#### 10.5 INCOMPATIBLE MATERIALS

• Strong oxidizing agents, strong reducing agents, and strong acids.

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

• Products of thermal decomposition include carbon dioxide, carbon monoxide, silicate and nitrogen compounds.

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#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

#### • ACUTE TOXICITY:

 TOXICOLOGY DATA: The following data are available for components of this product: <u>SODIUM CARBONATE</u>
 <u>TRICHLOROISOCYANURIC ACIE</u>

 $LD_{50}$  (Oral, Rat) = 4,090 mg/kg LC<sub>50</sub> (Inhalation, Rat) = 2 hours, 2,300 mg/m<sup>3</sup> TRICHLOROISOCYANURIC ACID LD<sub>50</sub> (Oral Rat) = 406 mg/kg SILICA LD<sub>50</sub> (Oral Rat) >22,500 mg/kg

 DEGREE OF IRRITATION: See Section 4 (First Aid Measures) for more details. Specific data for components are as follows:

#### SODIUM CARBONATE

Eyes, Rabbit = Irritant/24 hours Skin, Rabbit – Mild Irritant/24 hours

- SENSITIZATION: No components of this product are known to cause skin or respiratory sensitization.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details.

Eyes	Can cause serious eye irritation.			
Skin	Mild to moderate skin irritation, depending on duration of contact.			
Inhalation	May cause mild respiratory tract irritation if dusts/particulates are inhaled.			
Ingestion	May cause gastrointestinal system irritation, especially if large quantities are ingested.			

#### • CHRONIC TOXICITY:

 CARCINOGENICITY STATUS: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be, or suspected to be, a carcinogen by the listed agency.

CHEMICAL	IARC	NTP	NIOSH	OSHA	OTHER
Silica (Refers to Respirable Particulates) (Note: This exists as an impurity within the limestone)	IARC-1 (Carcinogenic to Humans)	NTP-K (Known to be a Carcinogen)	Carcinogen	NO	MAK-1: Substances that cause cancer in man. TLV-A2: Suspected Human Carcinogen PROP 65

- **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
- MUTAGENIC EFFECTS: The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
- SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE: Not applicable.
- SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Silica (crystalline, respirable particulates), can have adverse effects on the lungs if after repeated exposure. Crystaline silica impurity can cause decreased pulmonary function and/or lung cancer when inhaled above established safe limits over a prolonged period of time.
- **ASPIRATION HAZARD:** Not applicable.
- OTHER INFORMATION:
  - o TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.
  - **ADDITIONAL TOXICOLOGY:** Not applicable.

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## SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

• Based on available data, this product may be harmful to contaminated terrestrial or aquatic plants or animals, especially if large volumes are released into the environment. The following data are available for components of this product:

#### SODIUM CARBONATE

LC50 (Lepomis macrochirus) - 300 mg/L - 96 hours EC50 (Daphnia magna) - 265 mg/L - 48 hours LC50 (Oncorhynchus mykiss): 3.2 - 5.6 mg/L- 96 hours TRICHLOROISOCYANURIC ACID

EC50 (Daphnia magna) : - 0.17 mg/l - 48 hours LC50 (Oncorhynchus mykiss): 0.08 mg/l - 96.0 hours

#### 12.2 PERSISTENCE AND DEGRADABILITY

• Product compounds occur naturally in the environment is significant quantities (e.g., Sodium Carbonate). When released into the soil, the other components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

#### 12.3 BIOACCUMULATIVE POTENTIAL

• This product is not anticipated to bioaccumulate significantly.

#### 12.4 MOBILITY IN SOIL

• It is expected that this product will have some mobility in soil.

#### 12.5 OTHER ADVERSE EFFECTS

None reported.

#### **SECTION 13: DISPOSAL CONSIDERATION**

#### 13.1 WASTE TREATMENT METHODS

• Dispose of in accordance with local, State and Federal regulations.

#### 13.2 DISPOSAL CONSIDERATIONS

• EPA RCRA WASTE CODE: Not applicable.

#### SECTION 14: TRANSPORT INFORMATION

#### 14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

• DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status	
NOT APPLICABLE							

- **IATA DESIGNATION**: This product is not regulated as dangerous goods by the International Air Transport Association.
- **IMO DESIGNATION**: This product is not regulated as dangerous goods by the International Maritime Organization.

#### 14.2 ENVIRONMENTAL HAZARDS

• None described, as related to transportation.

#### 14.3 SPECIAL PRECAUTIONS FOR USERS

• Not applicable.

#### 14.4 TRANSPORT IN BULK

• Not applicable.

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#### SECTION 15: REGULATORY INFORMATION

#### 15.1 SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

- OTHER IMPORTANT U.S. REGULATIONS
  - U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: Yes; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
  - o U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable..
  - U.S. TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory.
  - CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: WARNING! This
    product contains Silica, crystalline (airborne particles Cancer of respirable size), a substance
    known to the State of California to cause cancer.
  - INTERNATIONAL REGULATIONS
  - **CANADIAN REGULATORY STATUS:** The product is classified as hazardous under Canadian Controlled Products regulations (SOR-88-66).
    - Classification: D2B Materials Causing Other Toxic Effects/Toxic
    - This SDS contains all the information required by the CPR.
  - CANADIAN DSL/NDSL INVENTORY STATUS: The listed components of this product are on the DSL/NDSL Inventory.
  - CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this product are not on the CEPA Priorities Substances Lists.
  - o GERMAN WATER HAZARD CLASSIFICATION: 1 (low hazard to waters).

#### **SECTION 16: OTHER INFORMATION**

#### 16.1 INDICATION OF CHANGE

- DATE OF REVISION: May 28, 2015
- **SUPERCEDES**: September 12, 2014
- CHANGE INDICATED: Update of OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### 16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- SAX Dangerous Properties of Industrial Materials
- RTECS Registry of Effects of Toxic Chemicals
- TOXNET http://toxnet.nlm.nih.gov/

#### 16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

#### Product as SOLD

Health	2
Flammability	0
Physical Hazard	0
Protective Equipment	В

<u>HMIS Personal Protective Equipment Rating</u>: Occupational Use situations: B -Safety glasses and gloves (If contact with powders is anticipated).

#### 16.4 DISCLAIMER

WAXIE Sanitary Supply makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of their own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by WAXIE Sanitary Supply as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does WAXIE Sanitary Supply assume any liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. WAXIE Sanitary Supply does not recommend blending this product with any other time of writing from recognized technical sources.

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#### SECTION 16: OTHER INFORMATION (Continued)

#### 16.5 ABBREVIATIONS AND ACRONYMS

**ALL SECTIONS:** <u>OSHA</u>: U.S. Federal Occupational Safety and Health Administration. <u>WHMIS</u>: Canadian Workplace Hazardous Materials Standard. <u>GHS</u>: Globally Harmonized System of Classification of Chemical Substances. <u>REACH</u>: European Union regulation, Registration, Evaluation, Authorization and Restriction of Chemical substances.

**SECTION 2:** <u>CAS Number</u>: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical.

**SECTION 5:** <u>NFPA</u>: National Fire Protection Association. <u>NFPA</u> <u>FLAMMABILITY CLASSIFICATION</u>: The NFPA uses the flash point (FI.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: FI.P. below 73°F and BP below 100°F. Class IB: FI.P. below 73°F and BP at or above 100°F. Class IC: :FI.P. at or above 73°F and BP at or above 100°F. Class III: : FI.P. at or above 100°F and below 140°F. Class IIIA: FI.P. at or above 140°F and below 200°F. Class IIIB: FI.P. at or above 200°F. <u>NFPA</u> <u>HAZARDOUS MATERIALS RATING</u>: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

**SECTION 8:** <u>NE</u>: Not established. <u>ACGIH</u>: American Conference of Government Industrial Hygienists; <u>TWA</u>: Time-Weighted Average (over an 8-hour work day); <u>STEL</u>: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); <u>C</u>: Ceiling Limit (concentration not to be exceeded in a work environment). <u>PEL</u>: Permissible Exposure Limit. <u>NIOSH</u>: National Institute of Occupational Safety and Health; <u>REL</u>: Recommended Exposure Limit; <u>IDLH</u>: Immediately Dangerous to Life and Health Concentrations. *Note*: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. <u>ppm</u>: Parts per Million. <u>mg/m<sup>3</sup></u>: Milligrams per cubic meter. <u>mppcf</u>: Millions of Particles per Cubic Foot. <u>BEI</u>: Biological Exposure Limit.

**SECTION 9:** <u>pH</u>: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. <u>FLASH POINT</u>: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. <u>AUTOIGNITION TEMPERATURE</u>: Temperature at which spontaneous ignition occurs.

**SECTION 9 (Continued):** <u>LOWER EXPLOSIVE LIMIT (LEL)</u>: The minimal concentration of flammable vapors in air which will sustain ignition. <u>UPPER EXPLOSIVE LIMIT (UEL)</u>: The maximum concentration of flammable vapors in air which will sustain ignition.≈: Approximately symbol. <u>VOC</u>: Volatile Organic Compound.

SECTION 11: CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxxor LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TDxxor TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration. SECTION 12: EC50: Effect Concentration (on 50% of study group);

<u>BOD</u>: Biological Oxygen Demand.

**SECTION 13:** <u>RCRA</u>: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. <u>EPA</u> <u>RCRA Waste Codes</u>: Defined in 40 CFR Section 261.

**SECTION 15:** <u>CERCLA</u>: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. <u>TSCA</u>: Toxic Substances Control Act: Rules regulating the manufacture and sale of chemicals found in 40 CFR 700-766. <u>DSL/NDSL</u>: Canadian Domestic Substances and Non-Domestic Substances Lists.

**SECTION 16:** <u>HAZARDOUS MATERIALS IDENTIFICATION</u> <u>SYSTEM RATING</u>: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

Cleanser -Powerful Cleaning Action	WAXIE Sanitary Supply	SAFETY DATA SHEET
With Bleach	Page 9 of 9	May 28, 2015



## SAFETY DATA SHEET

## Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Other Identifiers:	ABC Dry Chemical Fire Extinguishant Multi-purpose Dry Chemical
Product Code(s):	CH550, F15, F18
Model Code(s) for Extinguishers:	411, 417, 419, 423, 424, 425, 441, 443, 450, 456,
	461, 464, 467, 470, 473, 476, 481, 487, 488, 491,
	495, 500, 564, 567, 573, 581, 589, 592, 594, 668,
	692, 720, 760, 763, 781.
Recommended Use:	Fire suppression, not for human
	or animal drug use.
Manufacturer:	AMEREX CORPORATION
Internet Address:	www.amerex-fire.com
Address:	7595 Gadsden Highway, P.O. Box 81
	Trussville, AL 35173-0081
Company Telephone:	(205) 655-3271
E-mail Address:	info@amerex-fire.com
Emergency Contacts:	Chemtrec 1(800) 424-9300 or
	(703) 527–3887
Revised:	May, 2016

## Section 2. HAZARDS IDENTIFICATION

#### **GHS** – Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 3	None	None
Skin Sensitization: NO	None	None
Eye: Category 2B	None	Warning
STOT –Category 3	None	Warning
Carcinogen: Category None	None	None

GHS – Label Symbol(s):





GHS – Signal Word(s):

Warning

Other Hazards Not Resulting in Classification: None

#### **GHS** – Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	None	
Health	H303	May be harmful if swallowed
	316	Causes mild skin irritation
	320	Causes eye irritation
	333	May be harmful if inhaled
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P261	Avoid breathing dust.
	264	Wash hands and face thoroughly after handling.
Response	P304+340	If inhaled, remove person to fresh air and keep comfortable for breathing.
	305+351+313	If in eyes, rinse cautiously with water for several minutes. Get immediate medical
		advice/attention (as appropriate).
	337+338	If eye irritation persists: remove contact lenses, if present and easy to do. Continue
		rinsing.
	P312	Call a POISON CENTER/doctor if you feel unwell (as appropriate).
Storage	None	

## Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Mono-ammonium phosphate	NA	NA	7722-76-1	55-75
Ammonium sulfate	231-984-1	NA	7783-20-2	20-40
Fullers earth	NA	Not Available	8031-18-3	<3
magnesium aluminum silicate				
Mica-	NA	Not Available	12001-26-2	1-2
potassium aluminum silicate				
Silicone oil	NA	Not Available	63148-57-2	<1
methyl hydrogen polysiloxane				
Calcium carbonate	215-279-6	Not Available	1317-65-3	<1
Amorphous silica	262-373-8	Not Available	112926-00-8	<1
precipitated synthetic zeolite				
Yellow 14 pigment – diazo dye	228-767-9	Not Available	5468-75-7	<1

Emergency overview:

Light yellow, fine solid powder, odorless.

Adverse health effects and symptoms:

Irritant to the respiratory system; Irritating to eyes and skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

#### **Cut-off Levels**

Chemical Name	Reproductive Toxicity	Carcinogenicity	Mutagenicity	Other Hazard Classes
Mono-ammonium Phosphate	NA	NA	NA	NA
Ammonium Sulfate	NA	NA	NA	NA

Fullers earth magnesium aluminum silicate	NA	NA	NA	NA
Mica- potassium aluminum silicate	NA	NA	NA	NA
Silicone oil methyl hydrogen polysiloxane	NA	NA	NA	NA
Calcium carbonate	NA	NA	NA	NA
Amorphous silica precipitated synthetic zeolite	NA	NA	NA	NA
Yellow 14 pigment – di-azo dye	NA	NA	NA	NA

## Section 4. FIRST AID MEASURES

Eye Exposure:	May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur.
Skin Exposure:	May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.
Inhalation:	May cause irritation, along with coughing. If respiratory irritation or distress occurs, remove victim to fresh air. Seek medical attention if irritation persists.
Ingestion:	Overdose symptoms may include numbness or tingling in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.
Medical conditions possibly	
aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis ("dusty lung" disease).

## Section 5. FIRE-FIGHTING MEASURES

Flammable Properties: Flash Point: Suitable Extinguishing Media:

Hazardous Combustion Products:

Explosion Data: Sensitivity to Mechanical Impact: Sensitivity to Static Discharge: Unusual fire/explosion hazards:

Protective Equipment and Precautions for Firefighters:

Not flammable Not determined Non-combustible. Use extinguishing media suitable for surrounding conditions. Carbon and sulfur oxides

Not sensitive Not sensitive In a fire this material may decompose, releasing oxides of carbon, sulfur, potassium and nitrogen (see Section 10).

As in any fire, wear self-contained breathing apparatus in pressure-demand, NIOSH approved or equivalent and full protective gear.

## Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes, and clothing. Minimum - safety glasses, gloves, and a dust Personal Protective Equipment: respirator. **Emergency Procedures:** NA Methods for Containment: Prevent further leakage or spillage if safe to do so. Methods for Clean Up: Avoid dust formation. Clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete. **Environmental Precautions:** Prevent material from entering waterways. If product is contaminated, use PPE and containment Other: appropriate to the nature of the most toxic chemical/material in the mixture.

## Section 7. HANDLING AND STORAGE

Personal Precautions:	Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).
Conditions for Safe Storage/Handling:	Keep product in original container or extinguisher. Contents may be under pressure – inspect extinguisher consistent with product labeling to ensure container integrity.
Incompatible Products:	Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.

## Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono- ammonium phosphate	PNOC** Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	NA
Ammonium Sulfate	PNOC** Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	NA
Mica	6 mg/m <sup>3</sup>	3 mg/m3	NR	NA
Fullers Earth	PNOC** Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>	PNOC Total dust, 4 mg/m <sup>3</sup> Respirable fraction, 1.5 mg/m <sup>3</sup>	
Silicone oil	NR**	NR	NR	NA
Calcium carbonate	PNOC Total dust, 15 mg/m <sup>3</sup> Respirable fraction, 5 mg/m <sup>3</sup>	PNOC Total dust, 10 mg/m <sup>3</sup> Respirable fraction, 3 mg/m <sup>3</sup>		NA
Amorphous silica	80 mg/m <sup>3</sup> % silica	10 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>	NA
Yellow 14 pigment	NR	NR	NR	NA

\*German regulatory limits \*\*PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) \*\*\* NR = Not Regulated. All values are 8 hour time weighted average concentrations.

## Engineering Controls:

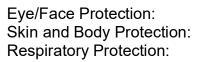
Showers Eyewash stations Ventilation systems

#### Personal Protective Equipment – PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.







Hygiene Measures:





Tightly fitting safety goggles Wear protective gloves/coveralls If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure, use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas. Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-tomouth contact when handling. Wash thoroughly after handling.

## Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Molecular Weight:

Light yellow powder, finely divided odorless solid NH4H2PO4: 115.03; (NH4)2SO4: 132.14

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NOTE: NH4H2PO4 - Monoammonium Phosphate; (NH4)2SO4: - Ammonium Sulfate

## Section 10. STABILITY AND REACTIVITY

Stability:

Reactivity: Incompatibles:

Conditions to Avoid: Hazardous Decomposition Products:

Possibility of Hazardous Reactions: Hazardous Polymerization Stable under recommended storage and handling conditions.

Strong alkalis (bases), magnesium, strong oxidizers, isocyanuric acids and chlorine compounds. Storage or handling near incompatibles. Heat of fire may release carbon monoxide, carbon dioxide, and sulfur dioxide. Also ammonia, oxides of phosphorous and nitrogen oxides may be released during decomposition. Slight

Does not occur

## Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Symptoms: Immediate: Inhalation: Eyes: Skin: Delayed: Acute Toxicity: Chronic Toxicity: Short-term Exposure: Long-term Exposure: Inhalation, skin, and eye contact.

Irritation, coughing. Irritation. Irritation. Symptoms appear to be relatively immediate Relatively non-toxic.

None known. As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

#### **Acute Toxicity Values - Health**

Chemical Name		LC50 (Inhalation)	
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Ammonium Sulfate	2840 mg/kg (rat)	Not available	Not available
Mica	None	None	None
Fullers Earth	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

Reproductive Toxicity:

Target Organs and Effects (TOST):

This product's ingredients are not known to have reproductive or teratogenic effects. Respiratory system irritant).

This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

#### **Other Toxicity Categories**

Chemical Name	Germ Cell Mutagenicity	Carcino- genicity	Repro- ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Ammonium Sulfate	None	None	None	Cat 3	None	None
Fullers earth	None	None	None	None	None	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None

Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

## Section 12. ECOLOGICAL INFORMATION

Negative effects unknown. Provides nutrient nitrogen and phosphorus to plant life.
Degrades rapidly in humid/wet environment.
NH4H2PO4 Est: 0.693 (Rapid);
(NH4)2SO4: Est: 0.684 (Rapid)
NH4H2PO4 Est: 0.398 (Slow);
(NH4)2SO4: Est: 0.398 (Slow)
Low.
NH4H2PO4: 3.16 L/kg; (NH4)2SO4: 3.16 L/kg (wet weight)
Extent unknown.
Slow evaporation rate; water soluble, may leach to groundwater
NH4H2PO4 Est: -1.25: (NH4)2SO4: Est: 1.35
NH4H2PO4 Est: 16.72; (NH4)2SO4: Est: 20.10
NH4H2PO4 Est: -20.86; (NH4)2SO4: Est: -19.62

NOTE: NH4H2PO4 – Mono-ammonium Phosphate; (NH4)2SO4: – Ammonium Sulfate

Other Adverse Ecological Effects:

No other known effects at this time

## Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Mono-ammonium phosphate	N/A	N/A
Ammonium Sulfate	N/A	N/A
Mica	N/A	N/A
Fullers Earth	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Chemical Name	Chemical Name Acute (LC50) EC50								
	· · · · ·								
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr;	6.70e+05 mg/L Gr. Algae 96 hr							
	9.4e+06 mg/l Daphnid 48 hr;								
Ammonium Sulfate	2521 mg/L Fish 96 hr;	518 mg/L Gr. Algae 96 hr							
	1244 mg/l Daphnid 48 hr;								
Mica	N/A	N/A							
Fullers Earth	N/A	N/A							
Silicone oil	N/A	N/A							
Calcium carbonate	N/A	N/A							
Amorphous silica	N/A	N/A							
Yellow 14 pigment	N/A	N/A							

#### Aquatic Toxicity Values – Environment – Estimates

## Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Waste Disposal Considerations

**Contaminated Packaging** 

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8). Dispose in accordance with federal, state, and local regulations. Dispose in accordance with federal, state, and local

regulations.

#### NOTES:

This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION						
UN Number: UN Proper Shipping Name: Transport Hazard Class: Packing Group:	NA NA NA					
Marine Pollutant?:	NO					
ΙΑΤΑ	Not regulated					
DOT	Not regulated					
NOTES <sup>.</sup>						

This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada "Transportation of Dangerous Goods" regulations.

## Special Precautions for Shipping:

If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, nontoxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class is 2.2, non-flammable, when shipped via highway or rail.

## Section 15. REGULATORY INFORMATION

International Inventory Status:	All ingredients are on the following inventories			
Country(ies)	Agency	Status		
United States of America	TSCA	Yes		
Canada	DSL	Yes		
Europe	EINECS/ELINCS	Yes		
Australia	AICS	Yes		
Japan	MITI	Yes		
South Korea	KECL	Yes		

## **REACH Title VII Restrictions**:

No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Mono-ammonium Phosphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulfate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Mono-ammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Fullers earth magnesium aluminum silicate 8031-18-3 (>4)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

| Mica-<br>potassium<br>aluminum silicate<br>120001-26-2 (>2) | Not Applicable |
|---|----------------|----------------|----------------|----------------|----------------|
| Calcium carbonate<br>471-34-1                               | Not Applicable |
| Amorphous silica<br>69012-64-2                              | Not Applicable |
| Yellow 14 pigment 5468-75-7                                 | Not Applicable |

#### European Risk and Safety phrases:

EU Classification:	XN	Irritant
R Phrases:	20	Harmful by inhalation.
	36/37	Irritating to eyes, respiratory system.
S Phrases:	22	Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

## **U.S. Federal Regulatory Information:**

#### SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:
---------------------------------

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard-*	Yes
Reactive Hazard	No

\* - Only applicable if material is in a pressurized extinguisher.

#### Clean Water/Clean Air Acts:

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

## U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None California – Permissible Exposure Limits for Chemical Contaminants: None Florida – Substance List: Mica Dust Illinois – Toxic Substance List: None Kansas – Section 302/303 List: None Massachusetts – Substance List: Mica Dust Minnesota – List of Hazardous Substances: None Missouri – Employer Information/Toxic Substance List: None New Jersey – Right to Know Hazardous Substance List: None North Dakota – List of Hazardous Chemicals, Reportable Quantities: None Pennsylvania – Hazardous Substance List: None Rhode Island – Hazardous Substance List: Mica Dust Texas – Hazardous Substance List: None West Virginia – Hazardous Substance List: None Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

<u>Other</u>: Mexico – Grade Canada – WHMIS Hazard Class

No component listed No component listed

## Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date Revision Date Revision Notes 17-June-2012 4-May-2016 None

The information herein is given in good faith but no warranty, expressed or implied, is made. Updated by William F. Garvin, CIH.

## Safety Data Sheet

Issue Date 01-Jun-2012	Revision Date:	31-Oct-2013		Version 1			
1. IDENTIFICATION							
<u>Product Identifier</u> Product Name	ARROW 1108 Low-VOC	UNIVERSAL Solvent Cen	nent for Plastic Pipe (PVC, C	VPC, ABS)			
Other means of identification SDS #	AAC-1108						
UN/ID No Product Code	UN1133 1108, AA-1108						
Recommended use of the chemica Recommended Use	Recommended use of the chemical and restrictions on use           Recommended Use         Multi-purpose Low-VOC solvent cement for plastic pipe (PVC, CVPC, ABS)						
Details of the supplier of the safety Supplier Address Arrow Adhesives Company 5457 Spalding Dr. Norcross, GA 30092	<u>v data sheet</u>						
Emergency Telephone Number Company Phone Number Emergency Telephone (24 hr)	1-800-678-9058 INFOTRAC 1-352-323-3 1-800-535-5053 (North A	. ,					
	2. HAZARDS	IDENTIFICATION					
Appearance Clear to cloudy liquid	Physical S	State Liquid	Odo	<b>r</b> Ether-like			
Classification_							
Acute toxicity - Oral Serious eye damage/eye irritation Carcinogenicity Specific target organ toxicity (single e Flammable Liquids	exposure)		Category 4 Category 2 Category 2 Category 3 Category 2				
Hazards Not Otherwise Classified May be harmful in contact with skin	(HNOC)						
<u>Signal Word</u> Danger							
Hazard Statements Harmful if swallowed Causes serious eye irritation Suspected of causing cancer May cause respiratory irritation Highly flammable liquid and vapor							



#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear eye/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. — No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool

#### Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

#### Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### WHMIS Classification

Class B-Division 2 Class D-Division 2A Class D-Division 2B

#### **Other Hazards**

Harmful to aquatic life with long lasting effects

#### Unknown Acute Toxicity

5% of the mixture consists of ingredient(s) of unknown toxicity

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS No	Weight-%
Tetrahydrofuran	109-99-9	Proprietary
Methyl ethyl ketone	78-93-3	Proprietary
Cyclohexanone	108-94-1	Proprietary
Acetone	67-64-1	Proprietary
CPVC Resin	68648-82-8	Proprietary

\* The exact percentage (concentration) of composition has been withheld as a trade secret

#### 4. FIRST-AID MEASURES

#### **First Aid Measures**

Eye Contact	In case of irritation from airborne exposure, move to fresh air. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Skin Contact	Take off contaminated clothing. Wash with soap and water. If symptoms persist, call a physician. Wash contaminated clothing before reuse.
Inhalation	Remove to fresh air. If symptoms persist, call a physician. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Rinse mouth. Seek medical attention. If drowsy or unconscious, do not give anything by mouth; place individual on the left side with head down. Do not induce vomiting.
Ingestion	Rinse mouth. Seek medical attention. If drowsy or unconscious, do not give anything

#### Most important symptoms and effects

Symptoms	Exposed individuals may experience eye tearing, redness, and discomfort. Prolonged or repeated skin contact may result in dermatitis (red, dry skin). May cause nose and throat irritation, with possible central nervous system effects. Long term overexposure may cause liver and kidney damage. May cause respiratory irritation. Fatigue and weakness. May cause drowsiness or dizziness.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically. Individuals with chronic respiratory, skin, kidney, or liver disorders
	may be at increased risk from exposure. May cause conjunctivitis with prolonged or repeated eye exposure.
	repeated eye exposure.

#### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical.

#### Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Highly flammable liquid and vapor. Class IB Flammable Liquid. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products Carbon oxides. Various hydrocarbon vapors and toxic gases.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Persons not wearing proper personal protective equipment should be excluded from area of spill.
Environmental Precautions	Do not allow into any sewer, on the ground or into any body of water. See Section 12 for additional Ecological Information.
Methods and material for containm	ent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Clean-Up	Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. For waste disposal, see section 13 of the SDS.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on Safe Handling	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protection recommended in Section 8. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Ground/bond container and receiving equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, solid) all hazard precautions given in the data sheet must be observed. Avoid prolonged contact with eyes, skin, and clothing. Wash face, hands, and any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area.
Conditions for safe storage. includ	ing any incompatibilities
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store containers upright. Store away from heat, sparks, flame.

#### Incompatible Materials Oxidizers. Acids. Bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Tetrahydrofuran 109-99-9	STEL: 100 ppm TWA: 50 ppm S*	TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 590 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 735 mg/m <sup>3</sup>	IDLH: 2000 ppm TWA: 200 ppm TWA: 590 mg/m <sup>3</sup> STEL: 250 ppm STEL: 735 mg/m <sup>3</sup>
Cyclohexanone 108-94-1	STEL: 50 ppm TWA: 20 ppm S*	TWA: 50 ppm TWA: 200 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 100 mg/m <sup>3</sup> (vacated) S*	IDLH: 700 ppm TWA: 25 ppm TWA: 100 mg/m <sup>3</sup>

#### AAC-007 - Arrow Low-VOC Universal Cement

#### Revision Date: 31-Oct-2013

Methyl ethyl ketone	STEL: 300 ppm	TWA: 200 ppm TWA: 590	IDLH: 3000 ppm
78-93-3	TWA: 200 ppm	mg/m <sup>3</sup> (vacated) TWA:	TWA: 200 ppm
		200 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 590 mg/m <sup>3</sup>	STEL: 300 ppm
		(vacated) STEL: 300 ppm	STEL: 885 mg/m <sup>3</sup>
		(vacated) STEL: 885 mg/m <sup>3</sup>	
Acetone	STEL: 750 ppm	TWA: 1000 ppm TWA:	IDLH: 2500 ppm
67-64-1	TWA: 500 ppm	2400 mg/m <sup>3</sup> (vacated)	TWA: 250 ppm
		TWA: 750 ppm	TWA: 590 mg/m <sup>3</sup>
		(vacated) TWA: 1800 mg/m <sup>3</sup>	
		(vacated) STEL: 2400 mg/m <sup>3</sup>	
		The acetone STEL does not apply	
		to the cellulose acetate fiber	
		industry. It is in effect for all other	
		sectors	
		(vacated) STEL: 1000 ppm	

#### Appropriate engineering controls

Engineering Controls	Apply technical measures to comply with the occupational exposure limits. Ventilation
	systems. Showers. Eyewash stations.

#### Individual protection measures. such as personal protective equipment

Eye/Face Protection	Splash goggles or safety glasses.
Skin and Body Protection	Rubber gloves. Use body protection appropriate for task.
Respiratory Protection	Not required under normal conditions. If recommended levels are exceeded, respiratory protection must be selected to assure compliance with OSHA Standard 29CFR 1910.134.

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

• •	ar to cloudy liquid ar to hazy	Odor Odor Threshold	Ether-like Not determined
Melting Point/Freezing PointNot ofBoiling Point/Boiling Range66 °CFlash Point-14 °CEvaporation Rate8.0	<u>les</u> available determined C / 151 °F °C / 6 °F liquid	Remarks • Method (butyl acetate = 1)	
Upper Flammability Limits11.8Lower Flammability Limit1.8%Vapour Pressure143Vapor Density2.5Specific Gravity0.91	w 6 mm Hg	@ 20°C (68°F) (Air=1)	

Solubility in other solvents	Not determined
Partition Coefficient	Not determined
Auto-ignition Temperature	Not determined
Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content	Maximum VOC emissions when applied and tested per SCAQMD Rule 1168, Test Method
	316A is <= 490 g/L

#### **10. STABILITY AND REACTIVITY**

#### Reactivity

Not reactive under normal conditions.

#### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous Polymerization Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Avoid heat, sparks, open flames and other ignition sources.

#### **Incompatible Materials**

Oxidizers. Acids. Bases.

#### Hazardous Decomposition Products

Carbon oxides. Hydrogen chloride. Other various hydrocarbons.

#### **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	May be harmful in contact with skin.
Inhalation	Avoid breathing vapors or mists.
Ingestion	Harmful if swallowed.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrahydrofuran 109-99-9	= 1650 mg/kg (Rat)	-	= 53.9 mg/L (Rat)4 h = 180 mg/L (Rat)1 h
Cyclohexanone 108-94-1	= 800 mg/kg (Rat)	= 948 mg/kg (Rabbit)	= 10.7 mg/L (Rat) 4 h = 8000 ppm (Rat) 4 h
Methyl ethyl ketone 78-93-3	= 2737 mg/kg (Rat)	= 6480 mg/kg (Rabbit)	-
Acetone 67-64-1	= 5800 mg/kg (Rat)	-	-

#### Information on physical, chemical and toxicological effects

#### Symptoms

Please see section 4 of this SDS for symptoms.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical Name	ACGIH	IARC	NTP	OSHA
Tetrahydrofuran 109-99-9	A3			
Cyclohexanone 108-94-1	A3	Group 3		

#### Legend

 ACGIH (American Conference of Governmental Industrial Hygienists)

 A3 - Animal Carcinogen

 IARC (International Agency for Research on Cancer)

 Group 3 IARC components are "not classifiable as human carcinogens"

 STOT - single exposure

 May cause respiratory irritation.

#### Numerical measures of toxicity

Not determined

**Unknown Acute Toxicity** 

5% of the mixture consists of ingredient(s) of unknown toxicity.

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Tetrahydrofuran		1970 - 2360: 96 h		5930: 24 h Daphnia magna
109-99-9		Pimephales promelas mg/L		mg/L EC50
		LC50 flow-through 2700 -		
		3600: 96 h Pimephales		
		promelas mg/L LC50 static		
Cyclohexanone	20: 96 h Chlorella vulgaris	481 - 578: 96 h Pimephales		800: 24 h Daphnia magna
108-94-1	mg/L EC50	promelas mg/L LC50	EC50 = 21.3 mg/L 10 min	mg/L EC50
		flow-through 8.9: 96 h	EC50 = 25 mg/L 5 min	
		Pimephales promelas mg/L		
		LC50		
Methyl ethyl ketone		3130 - 3320: 96 h	EC50 = 3403 mg/L 30 min	520: 48 h Daphnia magna
78-93-3		Pimephales promelas mg/L	EC50 = 3426 mg/L 5 min	mg/L EC50 5091: 48 h
		LC50 flow-through		Daphnia magna mg/L EC50
				4025 - 6440: 48 h Daphnia
				magna mg/L EC50 Static
Acetone		4.74 - 6.33: 96 h	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia
67-64-1		Oncorhynchus mykiss mL/L		magna mg/L EC50 Static
		LC50 6210 - 8120: 96 h		12600 - 12700: 48 h Daphnia
		Pimephales promelas mg/L		magna mg/L EC50
		LC50 static 8300: 96 h		
		Lepomis macrochirus mg/L		
		LC50		

#### Persistence/Degradability

Not determined.

#### **Bioaccumulation**

Not determined.

#### <u>Mobility</u>

Chemical Name	Partition Coefficient
Tetrahydrofuran	0.45
109-99-9	
Methyl ethyl ketone	0.29
78-93-3	
Cyclohexanone	0.86
108-94-1	
Acetone	-0.24
67-64-1	

#### **Other Adverse Effects**

Not determined

#### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

#### US EPA Waste Number

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Tetrahydrofuran 109-99-9				U213
Cyclohexanone 108-94-1		Included in waste stream: F039		U057
Methyl ethyl ketone 78-93-3	U159	Included in waste streams: F005, F039	200.0 mg/L regulatory level	U159
Acetone 67-64-1		Included in waste stream: F039		U002

#### California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Tetrahydrofuran	Toxic
109-99-9	Ignitable
Methyl ethyl ketone	Toxic
78-93-3	Ignitable
Acetone	Ignitable
67-64-1	

#### **14. TRANSPORT INFORMATION**

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Shipments of containers holding 1 liter or less in volume may qualify for a "Limited Quantity" exception. Refer to 49 CFR 173.150 for additional information.

#### DOT

UN/ID No	UN1133
Proper Shipping Name	Adhesives
Hazard Class	3
Packing Group	II

IATA		
UN/ID No	UN1133	
Proper Shipping Name	Adhesives	
Hazard Class	3	
Packing Group	II	
IMDG_		
UN/ID No	UN1133	
Proper Shipping Name	Adhesives	

Adhesives
3
II
This material may meet the definition of a marine pollutant

#### **15. REGULATORY INFORMATION**

#### International Inventories

#### TSCA

.....

Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### **CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Tetrahydrofuran	1000 lb		RQ 1000 lb final RQ
109-99-9			RQ 454 kg final RQ
Methyl ethyl ketone	5000 lb		RQ 5000 lb final RQ
78-93-3			RQ 2270 kg final RQ
Cyclohexanone	5000 lb		RQ 5000 lb final RQ
108-94-1			RQ 2270 kg final RQ
Acetone	5000 lb		RQ 5000 lb final RQ
67-64-1			RQ 2270 kg final RQ

#### <u>SARA 313</u>

Not determined

#### US State Regulations

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Tetrahydrofuran 109-99-9	Х	Х	Х
Cyclohexanone 108-94-1	Х	X	Х
Methyl ethyl ketone 78-93-3	Х	Х	Х
Acetone 67-64-1	Х	X	Х

#### **16. OTHER INFORMATION**

<u>NEPA</u> HMIS	Health Hazards 2 Health Hazards 2	Flammability 3 Flammability 3	Instability 1 Physical Hazards 1	<b>Special Hazards</b> None <b>Personal Protection</b> G
Issue Date Revision Date: Revision Note	01-Jun-2 31-Oct-2 New fori	2013		

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 04/28/2016 Revision date: 07/08/2016 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. : BAR & CHAIN ALL CUSTOMERS **BAR & CHAIN** Product name & code Product code: LP1048 Product code: LP1048E Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Anything that requires a chain lubricant Details of the supplier of the safety data sheet 1.3. Olympic Oil 5000 West 41st Street Cicero, IL 60804 - USA T 708-876-7900 Mon-Fri 6:00am to 4:30pm sds.inquiry@olympicoil.us **Emergency telephone number** 1.4. : CHEMTREC 1 (800) 424-9300 Emergency number **SECTION 2: Hazards identification** 2.1. **Classification of the substance or mixture GHS-US classification** Not classified 2.2. Label elements **GHS-US** labeling No labeling applicable 23 **Other hazards** No additional information available. Unknown acute toxicity (GHS US) 2.4. Not applicable. SECTION 3: Composition/Information on ingredients 3.1. **Substance** Not applicable. 3.2. **Mixture Product identifier** % Name None by OSHA HazCom 2012 criteria **SECTION 4: First aid measures Description of first aid measures** 41 : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for First-aid measures after inhalation breathing. Get medical advice/attention if you feel unwell. First-aid measures after skin contact : If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. In case of contact, immediately flush eves with plenty of water. Remove contact lenses, if worn. First-aid measures after eye contact If irritation persists, get medical attention. First-aid measures after ingestion If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. Most important symptoms and effects, both acute and delayed 4.2. Symptoms/injuries after inhalation : May cause respiratory tract irritation. : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. Symptoms/injuries after skin contact : May cause eve irritation. Symptoms may include discomfort or pain. excess blinking and tear Symptoms/injuries after eye contact production, with possible redness and swelling. : May be harmful if swallowed. May cause stomach distress, nausea or vomiting. Symptoms/injuries after ingestion Indication of any immediate medical attention and special treatment needed 4.3. Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).



Page 1

#### Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam, water spray.	
Unsuitable extinguishing media	: Do not use water jet.	
5.2. Special hazards arising from the su	Ibstance or mixture	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon, aldehydes, oxides of nitrogen, oxides of sulfur, oxides of phosphorous, smoke, toxic fumes.	
5.3. Advice for firefighters		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool closed containers exposed to fire with water spray.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		

General r	neasures	: Use personal protection recommended in Section 8. Keep unnecessary personnel away from the release.
6.2.	Methods and material for containment	and cleaning up
For conta	ainment	: Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods	for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation. Spill area may be slippery.
6.3.	Reference to other sections	

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.	
7.2. Conditions for safe storage, includin	ig any incompatibilities
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Keep away from heat, sparks, and flame.

#### 7.3. Specific end use(s)

Not available.

SECTION	SECTION 8: Exposure controls/personal protection		
8.1. Co	ntrol parameters		
Oil Mist (M	ineral)		
ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m³	
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>	

#### 8.2. **Exposure controls** Appropriate engineering controls : Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Hand protection : Wear chemically resistant protective gloves. Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face Eye protection ÷ shield) protection. Skin and body protection : Wear suitable protective clothing. : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection Respiratory protection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Environmental exposure controls : Maintain levels below Community environmental protection thresholds. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully Other information ÷ before eating or smoking. Handle according to established industrial hygiene and safety practices.

Safety Data Sheet According to the Hazard Commu

According to the Hazard Communication Standard (CFF	λ29 1910.1200) HazCom 2012.
<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and	
Physical state	: Liquid
Appearance	: Amber colored <sup>1,2</sup>
Color	: Amber <sup>1,2</sup>
Odor	: Mild <sup>1,2</sup>
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 446 °F (COC D92) <sup>1,2</sup>
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not flammable
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: 0.87 - 0.89 <sup>1</sup> , 0.90 - 0.929 <sup>2</sup> (60 °F)
Relative vapor density at 20 °C	: No data available
Solubility	: Water: Negligable <sup>1,2</sup>
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: 70 - 95 cSt <sup>1, 2</sup> @ 104 °F 9.5 - 12.5 cSt <sup>1, 2</sup> @ 212 °F
Viscosity, dynamic	: No data available
9.2. Other information	
<sup>1</sup> BAR & CHAIN ALL CUSTOMERS <sup>2</sup> BAR & CHAIN	
SECTION 10: Stability and reactivity	y in the second s
10.1. Reactivity	
No dangerous reaction known under conditions	of normal use.
10.2. Chemical stability	
Stable under normal storage conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reaction known under conditions	of normal use.
10.4. Conditions to avoid	
Heat. Sparks. Open flame. Incompatible materi	als.
10.5. Incompatible materials	
Strong oxidizing agents.	
10.6. Hazardous decomposition product	
	arbon, aldehydes, oxides of nitrogen, oxides of sulfur, oxides of phosphorous, smoke, toxic fumes.
-	
SECTION 11: Toxicological informa	
11.1. Information on toxicological effect	
Acute toxicity	: Not classified
BAR & CHAIN	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LCE0 inholation rat	No data available

07/08/2016

LC50 inhalation rat

EN (English US)

No data available

3/5



#### Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Reproductive toxicity	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTI	ON 12: Ecological information	
12.1.	Toxicity	
Ecology	- general	May cause long-term adverse effects in the aquatic environment.
12.2.	Persistence and degradability	
BAR &	CHAIN	
Persist	ence and degradability	This material is not expected to be readily biodegradable based on component data.
12.3.	Bioaccumulative potential	
BAR &	CHAIN	
Bioacc	umulative potential	Not established.
12.4.	Mobility in soil	
No addit	ional information available.	
12.5.	Other adverse effects	
Effect or	the global warming	No known ecological damage caused by this product.
SECTI	ON 13: Disposal considerations	
13.1.	Waste treatment methods	
Waste di	sposal recommendations	This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

# SECTION 14: Transport information Department of Transportation (DOT) In accordance with DOT Not regulated for transport

#### Additional information

Other information

: No supplementary information available.

: Do not handle until all safety precautions have been read and understood.

#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

Special transport precautions

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

#### 15.3. US State regulations

BAR & CHAIN	
State or local regulations	This product does not contain a chemical known to the State of California to cause cancer,
	birth defects or other reproductive harm.

EN (English US)



#### Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

<b>SECTION 16: Other information</b>	
Version number	: 2.0
Date of issue	: 04/28/2016
Revision date	: 07/08/2016
Other information	: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.





## BN SYSTEMS, Inc. Bio Slide Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 6/19/2015 Supersedes: 01/27/2011 Version: 1.0

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE OF THE COMPANY UNDERTAKING

#### **1.1 PRODUCT IDENTIFIER**

Product name: Bio Slide

#### Product form: Mixture 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Use of the substance/mixture: <u>Biodegradable</u> asphalt release agent **1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET** BioSystems, Inc. 667 Technology Circle Windsor, CO 80550 T (970)686-6595, Toll Free (800)224-4605, F(970)686-6594 www.biosystemsinc.com

1.4 EMERGENCY TELEPHONE NUMBER: PERS: (800)633-8253

#### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS-US CLASSIFICATION: Not Classified

#### 2.2 LABEL ELEMENTS:

GHS-US LABELLING: No labelling applicable

2.3 OTHER HAZARDS: No additional information available 2.4 UNKNOWN ACUTE TOXICITY (GHS-US): No data available

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCE: Not applicable

#### 3.2 MIXTURE

NAME	PRODUCT IDENTIFIER	%
Contains no hazardous ingredients at		
levels requiring disclosure by the		
OSHA Hazard Communication		
Standard (29 CFR 1910.1200)		

#### **SECTION 4: FIRST AID MEASURES**

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

FIRST-AID MEASURES GENERAL: If exposed or concerned, get medical attention/advice. Show this SDS to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

FIRST-AID MEASURES AFTER INHALATION: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. FIRST-AID MEASURES AFTER SKIN CONTACT: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

*FIRST-AID MEASURES AFTER EYE CONTACT:* IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

*FIRST-AID MEASURES AFTER INGESTION:* IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

## 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

SYMPTOMS/INJURIES AFTER INHALATION: May cause respiratory irritation.

SYMPTOMS/INJUREIS AFTER SKIN CONTACT: May cause skin irritation.

*SYMPTOMS/INJURIES AFTER EYE CONTACT:* Direct contact with the eyes is likely to be irritating.

*SYMPTOMS/INJURIES AFTER INGESTION:* May cause gastrointestinal irritation.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: No additional information available

#### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: Water spray. Foam. Dry powder. Sand. Water fog.

## 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

FIRE HAZARD: Product is not flammable EXPLOSION HAZARD: Product is not explosive

REACTIVITY: No additional information available

#### 5.3 ADVISE FOR FIREFIGHTERS

*FIREFIGHTING INSTRUCTIONS:* Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion.

*PROTECTION DURING FIREFIGHTING:* Do not enter fire area without proper protective equipment, including respiratory protection.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

GENERAL MEASURES: Ventilate area and avoid breathing vapors. Put on personal protective equipment.

#### **6.2 ENVIRONMENTAL PRECAUTIONS**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid use of any ignition near spill.

#### 6.3 METHODS AND MATERIAL FOR CONTAINMENT

FOR CONTAINMENT: Contain any spills with non-combustible materials (e.g. sand, earth, and vermiculite) to prevent migration and entry into sewers or streams. Place in a suitable container for disposal in accordance with the waste regulations (see section 13).

#### SECTION 7: HANDLING AND STORAGE

Store in original container in well ventilated areas at temperatures below 140°F. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect damage to containers.

## BNSYSTEMS, Inc. Bio Slide Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 6/19/2015 Supersedes: 01/27/2011 Version: 1.0

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 CONTROL PARAMETERS** Not applicable

#### **8.2 EXPOSURE CONTROLS**

APPROPRIATE ENGINEERING CONTROLS: Provide adequate ventilation. This should be achieved by the use of local exhaust ventilation and good general extraction. Ensure eyewash and shower stations are available in workplace.

PERSONAL PROTECTIVE EQUIPMENT: Gloves. Protective goggles.



*SKIN AND BODY PROTECTION:* Minimize bodily exposure. Promptly remove soiled clothing and wash before reuse.

RESPIRATORY PROTECTION: Under normal circumstances, when adequate ventilation exists, no protective equipment is necessary. If workers are exposed to concentrations above the exposure limit, use NIOSH approved respirators. .

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid COLOR: Amber ODOR: Mild odor ODOR TREATMENT: Not measured PH: Not measured RELATIVE EVAPORATION RATE (BUTYLACETATE=1): Not measured MELTING POINT: Not measured FREEZING POINT: Not measured BOILING POINT: >300°F FLASH POINT > 300°F AUTO-IGNITION TEMPERATURE: Not measured DECOMPOSITION TEMPERATURE: Not measured FLAMMABILITY (SOLID, GAS): Not measured VAPOR PRESSURE: Not measured RELATIVE VAPOUR DENSITY AT 20° C: Not measured **RELATIVE DENSITY:** Not measured SOLUBILITY: Emulsifiable LOG KOW: Not measured VISCOSITY, KINEMATIC: Not measured VISCOSITY, DYNAMIC: Not measured OXIDISING PROPERTIES: Not measured EXPLOSIVE LIMITS: Not measured 9.2 OTHER INFORMATION

No additional information available

#### SECTION 10: STABILITY AND REACTIVITY

#### 10.1 REACTIVITY

No additional information available 10.2 CHEMICAL STABILITY

Stable under recommended handling and storage conditions (see section 7).

#### **10.3 POSSIBILITY OF HAZARDOUS REACTIONS**

No additional information available **10.4 CONDITIONS TO AVOID** Open flame. Heat. Temperatures over 49° C (120°F). **10.5 INCOMPATIBLE MATERIALS** None known. **10.6 HAZARDOUS DECOMPOSITION PRODUCTS** None known.

#### SECTION 11 : TOXICOLOGICAL INFORMATION

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS** ACCUTE TOXICITY: Not classified SKIN CORROSION/IRRITATION: Not classified SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye damage RESPIRATORY OR SKIN SENSITISATION: Not classified GERM CELL MUTAGENICITY: Not classified CARCINOGENICITY: Not classified REPRODUCTIVE TOXICITY: Not classified SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): Not classified SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): Not classified ASPIRATION HAZARD: Not classified SYMPTOMS/INJURIES AFTER INHALATION: May cause respiratory irritation. SYMPTOMS/INJURIES AFTER SKIN CONTACT: May cause skin irritation. SYMPTOMS/INJURIES AFTER EYE CONTACT: Direct contact with the eyes is likely to be irritating. SYMPTOMS/INJURIES AFTER INGESTION: May cause gastrointestinal irritation.

#### SECTION 12: ECOLOGICAL INFORMATION

#### **12.1 TOXICITY**

ECOLOGY – GENERAL: No information available

12.2 PERSISTENCE AND DEGRADABILITY			
BIO SLIDE			
Persistence and degradability Biodegradable			
12.3 BIOACCUMULATIVE POTENTIAL			
No additional information available			
12.4 MOBILITY IN SOIL			

No additional information available 12.5 OTHER ADVERSE EFFECTS

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

#### **13.1 WASTE TREATMENT METHODS**

WASTE TREATMENT METHODS: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit. WASTE DISPOSAL RECOMMENDATIONS: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

## BN SYSTEMS, Inc. Bio Slide Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 6/19/2015 Supersedes: 01/27/2011 Version: 1.0

#### SECTION 14: TRANSPORT INFORMATION

In accordance with DOT – Not hazardous for transport *TRANSPORT BY SEA*: No additional information available *AIR TRANSPORT*: No additional information

#### SECTION 15: REGULATORY INFORMATION

#### **15.1 US FEDERAL REGULATIONS**

#### **BIO SLIDE**

All chemical substances in this product are listed in the EPA		
(Environment Protection Agency), TSCA (Toxic Substance Control		
Act), Inventory or are exempt		
SARA section 311/312 Hazard classes None.		

**15.2 INTERNATIONAL REGULATIONS** 

No additional information available

**15.3 US STATE REGULATIONS** 

#### **CALIFORNIA PROPOSITION 65**

This product contains no chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

#### **SECTION 16: OTHER INFORMATION**

INDICATION OF CHANGES: Revision 1.0: New SDS created REVISION DATE: 08/15/2015

*NFPA HEALTH HAZARD*: 0 – Exposure under fire conditions would offer no hazard beyond that of ordinary

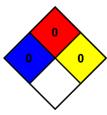
combustible materials.

NFPA FIRE HAZARD: 0 – Materials that will not burn.

NFPA Reactivity: 0 – Normally stable, even under fire exposure conditions, and are not reactive with water.

#### **HMIS III RATING**

HEALTH: 0 FLAMMABILITY: 0 PHYSICAL: 0 PERSONAL PROTECTION:



\*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.\*



## C1: Portland Cement Based Concrete Products

### SAFETY DATA SHEET

(Complies with OSHA 29 CFR 1910.1200)

#### SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE<sup>®</sup> Companies 5 Concourse Parkway, Suite 1900 Atlanta, GA 30328

Emergency Telephone Number INFOTRAC (800) 535-5053 Information Telephone Number (800) 282-5828

SDS C1 Revision: Feb-18

QUIKRETE <sup>®</sup> Product Name	ltem #(s)
Fence Post Mix	1005
Fiber-Reinforced Concrete Mix	1006
Crack Resistant Concrete Mix	1006-80
Pro-Finish Crack Resistant Concrete M	lix 1006-68
QUIKRETE 5000 Concrete Mix	1007
QUIKRETE 6000 Concrete Mix	1007
Pro-Finish QUIKRETE 5000	1007-85
Lightweight Concrete Mix	1008
Basic Concrete Mix	1015
Maximum Yield Concrete Mix	1100-80
Concrete Mix	1101-10, -20, -40, -60, -80, -90
Green Concrete Mix	1101-63, -73
B-Crete	1101-81
Red-E-Crete Concrete mix	1101-91, -87; 1141-62, -63, -92, -93, Bulk NR810035
Countertop Mix	1106-80
Form & Pour Concrete Mix	1120-80/NR810065
Form & Pour Concrete Mix MS	1120-80/NR810065
All-Star Concrete Mix	1121
Rip Rap	1129
Rip Rap Scrim	1134-80
Handicrete Concrete Mix	1141-59, -60, -80
RiteMix Concrete	1171-60
Fiber Reinforced Deck Mix	1251-80, -81
All-Star Crack Resistant Concrete Mix	1470-03
All-Star 5000 Concrete Mix	1470-01
FlowCrete 5000 (Mix 801)	8080026/NR80026
Mix 801 Concrete Mix	NR81001
Product Use: Portland cement-based,	aggregated products for general construction
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**CEMENT & CONCRETE PRODUCTS**<sup>TM</sup>

See most current revision of this document at www.QUIKRETE.com.

#### **SECTION II - HAZARD IDENTIFICATION**

#### Hazard-determining components of labeling: Silica, Portland cement 2.1 Classification of the substance or mixture

Carcinogen – Category 1A Skin Corrosion – Category 1B Eye Damage – Category 1 Skin Sensitization – Category 1B Specific Target Organ Toxicity Repeat Exposure – Category 1 Specific Target Organ Toxicity: Single Exposure – Category 3

#### 2.2a Signal word DANGER!

#### 2.2b Hazard Statements

May cause cancer through chronic inhalation Causes severe skin burns and serious eye damage May cause an allergic skin reaction Causes damage to lungs through prolonged or repeated inhalation May cause respiratory irritation Harmful if swallowed.

#### 2.2c Pictograms



#### 2.2d Precautionary statements

Do not handle until all safety precautions have been read and understood.

Wear impervious gloves, such as nitrile. Wear eye protection, and protective clothing.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Use only in a well-ventilated area. Wear a NIOSH approved respirator (mask) such as N95 in poorly ventilated areas, when used for extended periods, when use is frequent, or when permissible exposure limits may be exceeded.

Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

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#### **CEMENT & CONCRETE PRODUCTS**<sup>™</sup>

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation or rash occurs: get medical advice or attention.

#### Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/containers in accordance with all regulations.

#### 2.3 Additional Information

The Portland cement in this product can cause serious, potentially irreversible damage to skin, eye, respiratory and digestive tracts due to chemical (caustic) burns, including third degree burns. Burns from Portland cement may not cause immediate pain or discomfort. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization. Therefore precautions must be taken to prevent all contact with Portland cement. Cement burns can become worse even after contact has ended. If there is contact with this product, immediately remove all product from body and thoroughly rinse with water. If you experience or suspect a cement burn or inflammation you should immediately see a health care professional.

Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer. Interaction of Portland cement with water or sweat releases a caustic solution which produces the burns or irritation. Any extended exposure should be treated as though a burn has occurred until determined otherwise.

Skin contact with Portland cement can also cause inflammation of the skin, referred to as dermatitis. Signs and symptoms of dermatitis can include itching, redness, swelling, blisters, scaling, and other changes in the normal condition of the skin. Signs and symptoms of burns include the above and whitening, yellowing, blackening, peeling or cracking of skin.

The Portland cement in this product may cause allergic contact dermatitis in sensitized individuals. This overreaction of the immune system can lead to severe inflammation. Sensitization may result from a single exposure to the low levels of Cr (VI) in Portland cement or repeated exposures over months or years. Sensitization is long lasting and, after sensitization, even very small quantities can trigger the dermatitis. Sensitization is uncommon. Individuals who experience skin problems, including seemingly minor ones, are advised to seek medical attention.

## 2.3a HNOC – Hazards not otherwise classified: Not applicable2.3b Unknown Acute Toxicity: None

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CEMENT & C	ONCRETE	<b>PRODUCTS</b>
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SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION			
Hazardous Components	<u>CAS No.</u>	<u>% by Weight</u>	
Sand, Silica, Quartz	14808-60-7	60-100*	
Portland Cement	65997 15 1	10-30*	
Fly Ash	68131-74-8	5-10*	

\*The concentrations ranges are provided due to batch-to-batch variability. None of the constituents of this material are of unknown toxicity.

#### **SECTION IV – FIRST AID MEASURES**

### 4.1 Description of the first-aid measures

#### General information:

**After inhalation:** Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms/effects, acute and delayed

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Skin burns and irritation may be caused by brief exposure, though often are caused by extended exposure of 15 minutes, an hour, or longer.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

#### 4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

#### **SECTION V - FIRE FIGHTING MEASURES**

5.1 Flammability of the Product: Non-flammable and non-combustible

**5.2 Suitable extinguishing agents:** Treat for surrounding material

5.3 Special hazards arising from the substance or mixture: None

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#### 5.3a Products of Combustion: None

**5.3b Explosion Hazards in Presence of Various Substances:** Non-explosive in presence of shocks

#### SECTION VI – ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear personal protective equipment (See section VIII). Keep unprotected persons away.

#### 6.2 Methods and material for containment and cleaning up:

Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

#### SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

#### 7.1 Handling

**Precautions for safe handling:** Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8).Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

#### 7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

#### Information about storage in one common storage facility: Not required.

**Further information about storage conditions:** Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

#### SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA)	TLV (ACGIH)
		mg/M <sup>3</sup>	mg/M <sup>3</sup>
Silica Sand, crystalline	14808-60-7	0.1	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Fly Ash	68131-74-8	N/A	N/A

#### 8.2 Exposure Controls

Use ventilation adequate to keep exposures below recommended exposure limits.

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#### 8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

### 8.3a Personal protective equipment

#### Protection of hands:

Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. You cannot rely on pain to alert you to cement burns. Portland cement can cause dermatitis or sensitization.

#### Eye protection:

Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses.

#### **Respiratory protection:**

Wear a NIOSH approved respirator (mask) such as N95 in poorly ventilated areas, when used for extended periods, when use is frequent, or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

#### **SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS**

General Information	
Appearance	Form: Granular Solid
	Color: Gray to gray-brown colored
	Odor: None
pH-value at 20°C (68 °F):	13 (10%)
Boiling point/Boiling range:	Not applicable
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting
Vapor pressure at 21°C (70°F)	Not available
Density at 25°C (77 °F):	2.6 to 3.15

Solubility in / Miscibility with	
Water:	Insoluble
VOC content:	0 g/L VOC

#### SECTION X – STABILITY AND REACTIVITY

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### **10.2 Chemical stability**

Stable under normal storage conditions. Keep in dry storage.

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#### **10.3 Possibility of hazardous reaction**

No dangerous reaction known under conditions of normal use.

**10.4 Thermal decomposition / conditions to be avoided** 

No decomposition if used according to specifications.

#### **10.5 Incompatible materials**

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires

#### **10.6 Hazardous Decomposition or By-products**

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

#### SECTION XI – TOXICOLOGICAL INFORMATION

**11.1 Exposure Routes:** Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

#### 11.2 Symptoms related to physical/chemical/toxicological characteristics:

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

**Skin contact:** Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Ingestion:** Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

## 11.3 Delayed, immediate and chronic effects of short-term and long-term exposure Short Term

Skin Corrosion/Irritation: Causes severe skin burns. Serious Eye Damage/Irritation: Causes severe eye damage. Respiratory Sensitization: Not available Skin Sensitization: May cause an allergic skin reaction. Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory irritation. Aspiration Hazard: Not available

Long Term

Carcinogenicity: May cause cancer through chronic inhalation. Germ Cell Mutagenicity: Not available Reproductive Toxicity: Not available

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Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs through prolonged/repeated exposure Synergistic/Antagonistic Effects: Not available.

#### SECTION XII – ECOLOGICAL INFORMATION

#### 12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

#### 12.2 Persistence and degradability

No further relevant information available.

#### 12.3 Bioaccumulative potential:

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### **12.5 Other Adverse Effects**

No further relevant information available.

#### SECTION XIII – DISPOSAL CONSIDERATIONS

#### **13.1 Waste Disposal Method**

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is <u>not</u> classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

#### 13.2 Other disposal considerations Uncleaned packaging

**Recommendation:** Disposal must be made in accordance with local, state and federal regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION				
DOT (U.S.) TDG (Canada)				
UN-Number	Not Regulated	Not Regulated		
UN proper shipping name	Not Regulated	Not Regulated		
Transport Hazard Class(es)	Not Regulated	Not Regulated		
Packing Group (if applicable)	Not Regulated	Not Regulated		
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			~	

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#### 14.1 Environmental hazards:

Not Available

#### 14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code Not available

### 14.3 Special precautions for user

Do not handle until all safety precautions have been read and understood.

#### SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

#### Canada

**WHMIS Classification:** Considered to be a hazardous material under the Hazardous Products Act as defined by the Hazardous Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the HPR.

#### **15.2 US Federal Information**

#### SARA 302/311/312/313 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.

**RCRA:** Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

**CERCLA:** Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.

**Emergency Planning and Community Right to Know Act (SARA Title III):** Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

**FDA:** Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

**NTP:** Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

**OSHA Carcinogen:** Crystalline silica (quartz) is not listed.

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### 15.3 State Right to Know Laws

California Prop. 65 Components

**WARNING:** This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and hexavalent chromium compounds which are known to the State of California to cause birth defects or other reproductive harm. For more information go to <u>www.P65Warnings.ca.gov</u>.

**California Inhalation Reference Exposure Level (REL):** California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

**Massachusetts Toxic Use Reduction Act:** Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

#### **15.4 Global Inventories**

**DSL** All components of this product are on the Canadian DSL list.

**TSCA No.:** Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

#### **SECTION XVI – OTHER INFORMATION**

#### Last Updated: February 7, 2018

**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by

The QUIKRETE Companies, LLC

End of SDS

SDS C1

QUIKRETE Companies, LLC

2/7/2018



## SAFETY DATA SHEET

#### 1. Identification

Product identifier	Corquest® Proke Porto Cleaner
	Carquest® Brake Parts Cleaner
Other means of identification	
Product code	1006 (CRC# 09740)
Recommended use	Brake parts cleaner
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	r/Distributor information
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical	800-521-3168
Assistance	
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com

#### 2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2B
	Carcinogenicity	Category 1
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes skin irritation. Causes eye irritation. May cause drowsiness or dizziness. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.	
Precautionary statemen	t	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eve protection/face protection. Wash hands thoroughly after	

ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid release to the environment. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Collect spillage.

1488 Version #: 01 Issue date: 02-17-2014

Response

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

sds us 1 / 8

## Hazard(s) not otherwise classified (HNOC)

Dispose of contents/container in accordance with local/regional/national regulations. None known.

#### Supplemental information

When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.

#### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Tetrachloroethylene	Perchloroethylene	127-18-4	90 - 100

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.	
Skin contact	Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.	
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Do not induce vomiting. Call a physician or poison control center immediately.	
Most important symptoms/effects, acute and delayed	Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain. Prolonged exposure may cause chronic effects.	
Indication of immediate medical attention and special treatment needed	Because rapid absorption may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. If burn is present, treat as any thermal burn, after decontamination. Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary. No specific antidote.	
	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Water. Do not use water jet as an extinguisher, as this will spread the fire.	

Invalu	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and possibly phosgene.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting	Move containers from fire area if you can do so without risk. Containers should be cooled with

equipment/instructionswater to prevent vapor pressure build up.General fire hazardsNo unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.		
Methods and materials for containment and cleaning up	This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.		
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.		
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.		

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not breathe mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

ccupational exposure limits				
US. OSHA Table Z-2 (29 C				
Components	Тур	9	Va	lue
Tetrachloroethylene (CAS 127-18-4)	Ceili	ng	200	0 ppm
	TWA	A	100	0 ppm
US. ACGIH Threshold Lim	iit Values			
Components	Тур	9	Va	lue
Tetrachloroethylene (CAS 127-18-4)	STE			0 ppm
	TWA	A	25	ppm
iological limit values				
ACGIH Biological Exposu			<b>-</b> <i>i</i>	
Components	Value	Determinant	Specimen	Sampling Time
Tetrachloroethylene (CAS 127-18-4)	0.5 mg/l	Tetrachloroethy lene	Blood	*
	3 ppm	Tetrachloroethy lene	End-exhaled air	*
* - For sampling details, ple	ase see the source doo	cument.		
xposure guidelines				
US - Minnesota Haz Subs	Skin designation app	olies		
Tetrachloroethylene (C	AS 127-18-4)	Skin de	signation applie	S.
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.			
dividual protection measure				
Eye/face protection	Wear safety glasse	es with side shields (	or goggles).	
Skin protection				
Hand protection	Wear protective glo (EVAL).	oves such as: Polyvi	nyl alcohol (PVA	A). Viton®. Ethyl vinyl alcohol laminate
Other	Wear appropriate of	chemical resistant clo	othing.	
Respiratory protection		ent ventilation, wear s mployee exposure le		ory equipment. Air monitoring is needed
Thermal hazards	Wear appropriate t	hermal protective clo	othing, when neo	cessary.
eneral hygiene onsiderations		drinking, and/or smc		h as washing after handling the materia wash work clothing and protective

#### 9. Physical and chemical properties

Appearance		
Physical state	Liquid.	
Form	Liquid.	
Color	Colorless.	
Odor	Irritating.	

Odor threshold	50 ppm			
рН	Not available.			
Melting point/freezing point	-8.1 °F (-22.3 °C) estimated			
Initial boiling point and boiling range	250.3 °F (121.3 °C) estimated			
Flash point	None (Tag Closed Cup)			
Evaporation rate	Very fast.			
Flammability (solid, gas)	Not available.			
Upper/lower flammability or exp	losive limits			
Flammability limit - lower (%)	Not available.			
Flammability limit - upper (%)	Not available.			
Vapor pressure	13 mm Hg (68 °F (20 °C))			
Vapor density	5.76 (air = 1)			
Relative density	1.62			
Solubility (water)	0.02 % (77 °F (25 °C))			
Partition coefficient (n-octanol/water)	2.9			
Auto-ignition temperature	Not available.			
Decomposition temperature	Not available.			
Viscosity (kinematic)	Not available.			
Percent volatile	100 % estimated			
10. Stability and reactivity				

Material is stable under normal conditions.

possibly phosgene.

The product is stable and non-reactive under normal conditions of use, storage and transport.

Contact with incompatible materials. Welding. When exposed to extreme heat or hot surfaces, vapors may decompose to harmful or fatal corrosive gases such as hydrogen chloride and

### products

Reactivity

reactions

Chemical stability Possibility of hazardous

Conditions to avoid

Incompatible materials

Hazardous decomposition

#### 11. Toxicological information

Ingestion	Single dose oral toxicity is considered to be extremely low. Swallowing large amounts may cause injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in injury to other body systems.
Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Prolonged inhalation may be harmful. May cause damage to organs by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

No dangerous reaction known under conditions of normal use.

Hydrogen chloride. Trace amounts of chlorine and phosgene.

Strong oxidizing agents. Metals. Powdered metal. Amines. Strong bases.

#### Information on toxicological effects

Acute toxicity	Narcotic effects.		
Product	Species	Test Results	
Carquest® Brake Parts Cleaner			
Acute			
Dermal			
LD50	Rabbit	3228 mg/kg estimated	
Inhalation			
LC50	Rat	4100 mg/l, 6 Hours estimated	

Product	Species	Test Results	
		4000 ppm, 4 hours estimated	
Oral			
LD50	Rat	2629 mg/kg estimated	
* Estimates for product may I	be based on additional c	mponent data not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes eye irritation.	Causes eye irritation.	
Respiratory sensitization	Not available.		
Skin sensitization	This product is not ex	pected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	May cause cancer.	May cause cancer.	
IARC Monographs. Overall	Evaluation of Carcinog	enicity	
Tetrachloroethylene (CA US. National Toxicology Pr		2A Probably carcinogenic to humans. Carcinogens	
Tetrachloroethylene (CA		Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	This product is not ex	pected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Narcotic effects.		
Specific target organ toxicity - repeated exposure	May cause damage to	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	May be an aspiration hazard. Swallowing large amounts may cause injury if aspirated into the lungs. This may be rapidly absorbed through the lungs and result in injury to other body systems.		
Chronic effects		nay be harmful. Prolonged exposure may cause chronic effects. May caus bugh prolonged or repeated exposure.	

#### 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.			
Product		Species	Test Results	
Carquest® Brake Parts Clea	Carquest® Brake Parts Cleaner			
Acute				
Fish	LC50	Fish	20.2333 mg/l, 96 hours estimated	
Components		Species	Test Results	
Tetrachloroethylene (CAS 1	27-18-4)			
Aquatic				
Acute				
Fish	LC50	Bluegill (Lepomis macrochirus)	12.9 mg/l, 96 hours	
* Estimates for product may	be based on a	dditional component data not shown.		
Persistence and degradability	No data is a	available on the degradability of this pro	oduct.	
Bioaccumulative potential	Not availab	le.		
Partition coefficient n-octa Carquest® Brake Parts Clea Tetrachloroethylene		<b>g Kow)</b> 2.88 2.88		
Mobility in soil	No data ava	No data available.		
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
13. Disposal consideration	ons			
Disposal of waste from residues / unused products	disposal. C not allow th	This material and its container must be disposed of as hazardous waste. Consult authorities before disposal. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.		
Hazardous waste code	D039: Waste Tetrachloroethylene F001: Waste Tetrachloroethylene - Spent halogenated solvent used in degreasing F002: Waste Tetrachloroethylene - Spent halogenated solvent			
US RCRA Hazardous Wast	te U List: Refe	rence		
Tetrachloroethylene (CA	AS 127-18-4)	U210		
Material name: Carquest® Brake Pa	arts Cleaner		SDS U	
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Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

#### 14. Transport information

DO.	г	
	UN number	UN1897
	UN proper shipping name	Tetrachloroethylene, Limited Quantity ( RQ = 100 lbs)
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Label(s)	6.1
	Packing group	III
	Environmental hazards	
	Marine pollutant	Yes
	Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
	Special provisions	IB3, N36, T4, TP1
	Packaging exceptions	153
	Packaging non bulk	203
	Packaging bulk	241
IAT		
	UN number	UN1897
	UN proper shipping name	Tetrachloroethylene
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	
	Environmental hazards	No.
	ERG Code	6L
		Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed.
	Cargo aircraft only	Allowed.
IMD	<b>C</b>	Allowed.
	UN number	UN1897
	UN proper shipping name	TETRACHLOROETHYLENE, LIMITED QUANTITY
	Transport hazard class(es)	
	Class	6.1(PGIII)
	Subsidiary risk	-
	Packing group	
	Environmental hazards	
	Marine pollutant	Yes
	EmS	F-A. S-A
		Read safety instructions, SDS and emergency procedures before handling.
15	<b>Regulatory</b> information	

#### 15. Regulatory information

JS federal regulations	Standard, 29 CFR 1	azardous Chemical" as defined by the OSHA Hazard Communication 910.1200. on the U.S. EPA TSCA Inventory List.
TSCA Section 12(b) Exp	ort Notification (40 CFR	707, Subpt. D)
Not regulated.		
SARA 304 Emergency re	elease notification	
Not regulated. US. OSHA Specifically F	Regulated Substances (2	9 CFR 1910.1001-1050)
Not listed.		
US EPCRA (SARA Title	III) Section 313 - Toxic C	hemical: Listed substance
Tetrachloroethylene (	CAS 127-18-4)	
CERCLA Hazardous Sul	ostance List (40 CFR 302	2.4)
Tetrachloroethylene ( CERCLA Hazardous Sul	,	antity
Tetrachloroethylene (	CAS 127-18-4)	100 lbs
		gredient at or above its RQ require immediate notification to the National Local Emergency Planning Committee.

Tetrachloroethylene (CAS		
	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated. Safe Drinking Water Act	Not regulated.	
(SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
Superfund Amendments and	Reauthorization Act of 1986 (SARA)	
Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	
SARA 302 Extremely hazardous substance	No	
state regulations		
US. New Jersey RTK - Subst	ances: Listed substance	
Tetrachloroethylene (CAS US. Massachusetts RTK - Su	,	
Tetrachloroethylene (CAS		
US. Pennsylvania RTK - Haza	-	
Tetrachloroethylene (CAS US. Rhode Island RTK	127-18-4)	
Tetrachloroethylene (CAS	127-18-4)	
US. California Proposition 65	s contains a chemical known to the State of California to cause cancer.	
•	on 65 - CRT: Listed date/Carcinogenic substance	
latile organic compounds (VO	•	
EPA		
VOC content (40 CFR 51.100(s))	0 %	
Consumer products (40 CFR 59, Subpt. C)	Not regulated	
State		
Consumer products	This product is regulated as a Brake Cleaner. This product is not cor California and New Jersey. This product is compliant in all other stat	
VOC content (CA)	0 %	
VOC content (OTC)	0 %	
ernational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Chemical Substances (AICS)	Ye
Canada	Domestic Substances List (DSL)	Ye
Canada	Non-Domestic Substances List (NDSL)	N
China	Inventory of Existing Chemical Substances in China (IECSC)	Ye
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Ye
Europe	European List of Notified Chemical Substances (ELINCS)	N
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Ye
Korea	Existing Chemicals List (ECL)	Ye
New Zealand	New Zealand Inventory	Ye
Philippines	lippines Philippine Inventory of Chemicals and Chemical Substances Y (PICCS)	
	(	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. Other information, including date of preparation or last revision

Issue date	02-17-2014
Prepared by	Allison Cho
Version #	01
Further information	CRC # 491G
HMIS® ratings	Health: 2* Flammability: 0 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 0 Instability: 0
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.



## SAFETY DATA SHEET

#### 1. Identification

Product identifier	Carquest Windshield De-Icer
Other means of identification	
Product code	1090 (CRC# 09751)
Recommended use	Melt ice on windshields
Recommended restrictions	None known.
Manufacturer/Importer/Supplier	/Distributor information
Manufactured or sold by:	
Company name	CRC Industries, Inc.
Address	885 Louis Dr.
	Warminster, PA 18974 US
Telephone	
General Information	215-674-4300
Technical	800-521-3168
Assistance	
Customer Service	800-272-4620
24-Hour Emergency	800-424-9300 (US)
(CHEMTREC)	703-527-3887 (International)
Website	www.crcindustries.com
2 Hazard(s) identification	

#### 2. Hazard(s) identification

Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Compressed gas
Health hazards	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
	$\land \land \land \land \land$	
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled. Suspected of damaging fertility or the unborn child. Causes damage to organs (eyes) by ingestion.	
Precautionary statement		
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been r	

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor. If exposed or concerned: Get medical attention. Take off immediately all contaminated clothing and wash it before reuse.
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
Disposal Hazard(s) not otherwise	<ul> <li>contaminated clothing and wash it before reuse.</li> <li>Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.</li> <li>Dispose of contents/container in accordance with local/regional/national regulations.</li> <li>Static accumulating flammable liquid can become electrostatically charged even in bonded and</li> </ul>

#### Supplemental information

6.38% of the mixture consists of component(s) of unknown acute oral toxicity. 6.38% of the mixture consists of component(s) of unknown acute dermal toxicity.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%	
Methanol		67-56-1	80 - 90	
Carbon dioxide		124-38-9	5 - 10	
Water		7732-18-5	3 - 5	

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or
	artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Most important symptoms/effects, acute and delayed	Permanent eye damage including blindness could result. Dizziness. Headache. Nausea, vomiting.
Indication of immediate medical attention and special treatment needed	Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 µg/dl. Methanol is effectively removed by hemodialysis. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and may be used as an antidote in the treatment of methanol poisoning. Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.
5. Fire-fighting measures	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Remove all possible sources of ignition in the surrounding area. Many vapors are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. Wash contaminated clothing before reuse. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol.
including any incompatibilities	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

cupational exposure limits US. OSHA Table Z-1 Limits for Ai	1000)		
Components	Туре	Value	
Carbon dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
		5000 ppm	
Methanol (CAS 67-56-1)	PEL	260 mg/m3	
		200 ppm	

US. ACGIH Threshold Lim Components	it Values Type		١	/alue
Carbon dioxide (CAS	STEL	-	3	30000 ppm
124-38-9)	TWA		F	5000 ppm
Methanol (CAS 67-56-1)	STEL			250 ppm
	TWA			200 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards			
Components	Туре		١	/alue
Carbon dioxide (CAS 124-38-9)	STEL	-	Ę	54000 mg/m3
124-30-9)			3	30000 ppm
	TWA			0000 mg/m3
			5	5000 ppm
Methanol (CAS 67-56-1)	STEL	-	3	325 mg/m3
			2	250 ppm
	TWA		2	260 mg/m3
			2	200 ppm
iological limit values				
ACGIH Biological Exposur				
Components	Value	Determinant	Specimen	Sampling Time
Methanol (CAS 67-56-1)	15 mg/l	Methanol	Urine	*
* - For sampling details, plea	ase see the source docu	ument.		
xposure guidelines				
US - California OELs: Skin	designation			
Methanol (CAS 67-56-1	-	Can b	e absorbed thro	ough the skin
US - Minnesota Haz Subs:	Skin designation app	lies		-
Methanol (CAS 67-56-1 US - Tennessee OELs: Ski	n designation		lesignation app	
Methanol (CAS 67-56-1 US ACGIH Threshold Limi			e absorbed thro	bugh the skin.
Methanol (CAS 67-56-1			e absorbed thro	bugh the skin.
US NIOSH Pocket Guide to	o Chemical Hazards: S	kin designation		
Methanol (CAS 67-56-1	)	Can b	e absorbed thro	bugh the skin.
ppropriate engineering ontrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.			
ndividual protection measures Eye/face protection	s, such as personal pr Wear safety glasses			
Skin protection				
Hand protection	Wear protective glo	ves such as: Nitril	e. Rubber.	
Other	Wear appropriate cl	nemical resistant o	lothina.	
Respiratory protection	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to			
Thermal hazards	determine actual en Wear appropriate th			1022200
			-	
ieneral hygiene onsiderations	hygiene measures,	such as washing a	after handling th	I drink. Always observe good personal ne material and before eating, drinking, and/or re equipment to remove contaminants.
9. Physical and chemica	l properties			
ppearance				
Physical state	Liquid.			
-	Aoronal			

Aerosol.

Form

Color	Colorless.
Odor	Pungent.
Odor threshold	Not available.
pH	Not available.
•	
Melting point/freezing point	-144 °F (-97.8 °C) estimated
Initial boiling point and boiling range	148.5 °F (64.7 °C) estimated
Flash point	54 °F (12.2 °C) Tag Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	2.6 % estimated
Flammability limit - upper (%)	36 % estimated
Vapor pressure	3766.9 hPa estimated
Vapor density	1.1 (air = 1)
Relative density	0.85 estimated
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	700 °F (371.1 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	93.5 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Aluminum.
Hazardous decomposition products	Carbon oxides. Formaldehyde.

# 11. Toxicological information

exposure				
InhalationToxic if inhaled.Skin contactToxic in contact with skin.Eye contactDirect contact with eyes may cause temporary irritation.IngestionToxic if swallowed. Even small amounts (30-250 ml methanol) may be fatal. Symptoms are stomach ache, nausea, vomiting, dullness, visual disorder and blindness.				
			Headache. Dizziness. Nause	a, vomiting.
			fects	
			Toxic if inhaled. Toxic in cont	act with skin. Toxic if swallowed.
Species	Test Results			
Rabbit	13676 mg/kg estimated			
	Toxic in contact with skin. Direct contact with eyes may Toxic if swallowed. Even sma stomach ache, nausea, vomit Headache. Dizziness. Nause fects Toxic if inhaled. Toxic in cont Species			

Product	Species	Test Results	
Inhalation			
LC50	Rat	73167 ppm, 4 hours estimated	
		96 mg/l, 4 hours estimated	
Oral			
LD50	Human	58 mg/kg estimated	
	Rat	6277 mg/kg estimated	
LDL0	Human	343 mg/kg estimated	
* Estimates for product may b	e based on additional component data not shown.		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritat	ion.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.		
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity - single exposure	Causes damage to organs (eyes) by ingestion.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	Prolonged exposure may cause chronic effects.		

## 12. Ecological information

otoxicity		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.				
Product		Species	Test Results			
Carquest Windshield	De-Icer					
Aquatic						
Acute						
Crustacea	EC50	Daphnia	9127.9336 mg/l, 48 hours estimated			
Fish	LC50	Fish	20888.0156 mg/l, 96 hours estimated			
Components		Species	Test Results			
Methanol (CAS 67-56-	-1)					
Aquatic						
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	18000 - 20000 mg/l, 96 hours			
Acute						
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/l, 48 hours			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	18000 - 20000 mg/l, 96 hours			

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

## **Bioaccumulative potential**

Partition coefficient n-octanol / water (log Kow)				
Methanol	-0.77			
Mobility in soil	No data available.			
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

## 13. Disposal considerations

Disposal of waste from residues / unused products	If discarded, this product is considered a RCRA ignitable waste, D001. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Dispose in accordance with all applicable regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es	)
Class	2.1
Subsidiary risk	6.1(PGIII)
Label(s)	2.1
Packing group	Not applicable.
Special precautions for us	er Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	
Transport hazard class(es	)
Class	2.1
Subsidiary risk	6.1(PGIII)
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10P
	er Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed.
aircraft	A.U
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es	-
Class	2
Subsidiary risk	6.1(PGIII)
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for us	er Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

```
SARA 304 Emergency release notification
```

Not regulated.

		Section 313 - Toxic Chemica	I: Listed substance
	Methanol (CAS 67-56-1) CLA Hazardous Substa	nce List (40 CFR 302.4)	
	Methanol (CAS 67-56-1) CLA Hazardous Substa	nces: Reportable quantity	Listed.
	Methanol (CAS 67-56-1)	,	5000 LBS
	Spills or releases resultin		at or above its RQ require immediate notification to the National nergency Planning Committee.
Clea	In Air Act (CAA) Section	112 Hazardous Air Pollutar	nts (HAPs) List
	Methanol (CAS 67-56-1) In Air Act (CAA) Section	ı 112(r) Accidental Release I	Prevention (40 CFR 68.130)
	Not regulated.		
Safe (SD\	e Drinking Water Act WA)	Not regulated.	
	d and Drug hinistration (FDA)	Not regulated.	
Sup	erfund Amendments an	d Reauthorization Act of 198	36 (SARA)
	Section 311/312 Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes	
		Pressure Hazard - Yes Reactivity Hazard - No	
	SARA 302 Extremely hazardous substance	No	
US state	regulations		
	-	hemicals List. Safer Consun	ner Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.
	Methanol (CAS 67-56-1) California Controlled Su	ubstances. CA Department o	of Justice (California Health and Safety Code Section 11100)
	Not listed. <b>New Jersey Worker and</b>	Community Right-to-Know	Act
	Carbon dioxide (CAS 124 Methanol (CAS 67-56-1)		
	Massachusetts RTK - S		
	Carbon dioxide (CAS 124 Methanol (CAS 67-56-1)		w Low
	Methanol (CAS 67-56-1)	nd Community Right-to-Kno	w Law
	Carbon dioxide (CAS 07-50-1) Rhode Island RTK	1-38-9)	
	Methanol (CAS 67-56-1)		
	California Proposition 6 WARNING: This product reproductive harm.		the State of California to cause cancer and birth defects or other
	US - California Proposit	tion 65 - CRT: Listed date/Ca	arcinogenic substance
	Diethanolamine (CAS	S 111-42-2) tion 65 - CRT: Listed date/De	Listed: June 22, 2012 evelopmental toxin
	Methanol (CAS 67-5		Listed: March 16, 2012
Volatile	organic compounds (VC	DC) regulations	
EPA			
	VOC content (40 CFR 51.100(s))	88.8 %	
	Consumer products (40 CFR 59. Subpt. C)	Not regulated	

Consumer products (40 CFR 59, Subpt. C)

## State

Consumer products	Not regulated
VOC content (CA)	88.8 %

#### **VOC content (OTC)** 88.8 %

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	05-21-2015
Prepared by	Allison Cho
Version #	01
Further information	CRC # 638
HMIS® ratings	Health: 2* Flammability: 4 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 2 Flammability: 4 Instability: 0
NFPA ratings	2 0
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.

# Safety Data Sheet



## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# CHEVRON and TEXACO MID-GRADE UNLEADED GASOLINES

Product Use: Fuel
Product Number(s): 201001, 204041, 204044, 204063, 204096, 204278, 204312, 204313, 204753 [See Section 16 for Additional Product Numbers]
Synonyms: Calco Mid-Grade Unleaded Gasoline, Chevron Mid-Grade Unleaded Gasoline, Chevron Plus Unleaded Gasoline, Texaco Power Plus Gasoline
Company Identification
Chevron Products Company
6001 Bollinger Canyon Rd.
San Ramon, CA 94583
United States of America

Transportation Emergency Response

CHEMTREC: (800) 424-9300 or (703) 527-3887 Health Emergency Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623 Product Information Product Information: (800) 582-3835 SDS Requests: lubemsds@chevron.com

SPECIAL NOTES: This MSDS applies to: all motor gasoline.

## SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable liquid: Category 1. Aspiration toxicant: Category 1. Carcinogen: Category 1A. Target organ toxicant (repeated exposure): Category 1. Eye irritation: Category 2A. Germ Cell Mutagen: Category 1B. Skin irritation: Category 2. Reproductive toxicant (developmental): Category 2. Target organ toxicant (central nervous system): Category 3. Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2.

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Signal Word: Danger

Physical Hazards: Extremely flammable liquid and vapor.

**Health Hazards:** May be fatal if swallowed and enters airways. May cause genetic defects. May cause cancer. Causes skin irritation. Causes serious eye irritation. Suspected of damaging the unborn child. May cause drowsiness or dizziness.

**Target Organs:** Causes damage to organs (Blood/Blood Forming Organs) through prolonged or repeated exposure.

Environmental Hazards: Toxic to aquatic life with long lasting effects.

## PRECAUTIONARY STATEMENTS:

General: Keep out of reach of children. Read label before use.

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. -- No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

**Response:** IF exposed or concerned: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. In case of fire: Use media specified in the SDS to extinguish. Specific treatment (see Notes to Physician on this label). Collect spillage.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. **Disposal:** Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

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## SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Gasoline	86290-81-5	100 %vol/vol
Toluene (methylbenzene)	108-88-3	1 - 35 %vol/vol
Xylene (contains o-, m-, & p- xylene isomers in	1330-20-7	1 - 15 %vol/vol
varying amounts)		
Pentane, 2,2,4-trimethyl- (Isooctane)	540-84-1	1 - 13 %vol/vol
Butane	106-97-8	1 - 12 %vol/vol
Ethanol	64-17-5	0 - 10 %vol/vol
Benzene	71-43-2	0.1 - 4.9 %vol/vol
Hexane	110-54-3	1 - 5 %vol/vol
Heptane	142-82-5	1 - 4 %vol/vol
Ethyl benzene	100-41-4	0.1 - 3 %vol/vol
Cyclohexane	110-82-7	1 - 3 %vol/vol
Naphthalene	91-20-3	0.1 - 2 %vol/vol
Methylcyclohexane	108-87-2	1 - 2 %vol/vol

Motor gasoline is considered a mixture by EPA under the Toxic Substances Control Act (TSCA). The refinery streams used to blend motor gasoline are all on the TSCA Chemical Substances Inventory. The appropriate CAS number for refinery blended motor gasoline is 86290-81-5. The product specifications of motor gasoline sold in your area will depend on applicable Federal and State regulations.

## SECTION 4 FIRST AID MEASURES

## Description of first aid measures

**Eye:** Flush eyes with water immediately while holding the eyelids open. Remove contact lenses, if worn, after initial flushing, and continue flushing for at least 15 minutes. Get immediate medical attention. **Skin:** Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

**Eye:** Contact with the eyes causes severe irritation. Symptoms may include pain, tearing, reddening, swelling and impaired vision.

**Skin:** Contact with the skin causes irritation. Skin contact may cause drying or defatting of the skin. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

**Ingestion:** Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

**Inhalation:** Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

## DELAYED OR OTHER HEALTH EFFECTS:

**Reproduction and Birth Defects:** Contains material that may cause harm to the unborn child if inhaled above the recommended exposure limit.

**Cancer:** Prolonged or repeated exposure to this material may cause cancer. Gasoline has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Genetic Toxicity:** Contains material that may cause heritable genetic damage based on animal data. **Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit:Blood/Blood Forming Organs Risk depends on duration and level of exposure. See Section 11 for additional information.

## Indication of any immediate medical attention and special treatment needed

**Note to Physicians:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

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## SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry Chemical, CO2, AFFF Foam or alcohol resistant foam. **Unusual Fire Hazards:** See Section 7 for proper handling and storage.

## PROTECTION OF FIRE FIGHTERS:

**Fire Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. **Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

## SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** This product presents an extreme fire hazard. Liquid very quickly evaporates, even at low temperatures, and forms vapor (fumes) which can catch fire and burn with explosive violence. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches. Never siphon gasoline by mouth.

Do not store in open or unlabeled containers. READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Wash thoroughly after handling. Keep out of the reach of children.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and

use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**General Storage Information:** DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

## **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

## **ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** Wear protective equipment to prevent eye contact. Selection of protective equipment may include safety glasses, chemical goggles, face shields, or a combination depending on the work operations conducted.

**Skin Protection:** Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane, Viton.

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

## **Occupational Exposure Limits:**

Component	Agency	TWA	STEL	Ceiling	Notation
Gasoline	ACGIH	300 ppm	500 ppm		A3
		(weight)	(weight)		
Toluene (methylbenzene)	ACGIH	20 ppm			
		(weight)			
Toluene (methylbenzene)	OSHA Z-2	200 ppm		300 ppm	
		(weight)		(weight)	
Xylene (contains o-, m-, & p- xylene	ACGIH	100 ppm	150 ppm		
isomers in varying amounts)		(weight)	(weight)		
Xylene (contains o-, m-, & p- xylene	OSHA Z-1	435 mg/m3			
isomers in varying amounts) Pentane, 2,2,4-trimethyl-	OSHA Z-1	2350 mg/m3			
(Isooctane)			_		
Pentane, 2,2,4-trimethyl-	ACGIH	300 ppm			
(Isooctane)		(weight)			
Butane	ACGIH		1000 ppm (weight)		
Ethanol	ACGIH	1000 ppm			A4 A3
		(weight)			
Ethanol	OSHA Z-1	1900 mg/m3			
Benzene	ACGIH	.5 ppm	2.5 ppm		Skin A1
		(weight)	(weight)		Skin
Benzene	OSHA SRS	1 ppm	5 ppm		
		(weight)	(weight)		
Benzene	OSHA Z-2	10 ppm		25 ppm	
		(weight)	-	(weight)	_
Benzene	CVX	1 ppm	5 ppm		
		(weight)	(weight)		_
Hexane	ACGIH	50 ppm			Skin
		(weight)			_
Hexane	OSHA Z-1	1800 mg/m3			
Heptane	ACGIH	400 ppm (weight)	500 ppm (weight)		
Heptane	OSHA Z-1	2000 mg/m3			
Ethyl benzene	ACGIH	20 ppm			A3
		(weight)			
Ethyl benzene	OSHA Z-1	435 mg/m3			
Cyclohexane	ACGIH	100 ppm	1		
o yolonoxano		(weight)			
Cyclohexane	OSHA Z-1	1050 mg/m3			

Naphthalene	ACGIH	10 ppm (weight)	15 ppm	 Skin A3
Naphthalene	OSHA Z-1	50 mg/m3		 
Methylcyclohexane	ACGIH	400 ppm (weight)		 
Methylcyclohexane	OSHA Z-1	2000 mg/m3		 

Consult local authorities for appropriate values.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Colorless to yellow Physical State: Liquid Odor: Petroleum odor Odor Threshold: No data available pH: Not Applicable Vapor Pressure: 5 psi - 15 psi (Typical) @ 37.8 °C (100 °F) Vapor Density (Air = 1): 3 - 4 (Typical) Initial Boiling Point: 27.2°C (81°F) - 204.4°C (400°F) (Typical) Solubility: Insoluble in water; miscible with most organic solvents. Freezing Point: Not Applicable Melting Point: Not Applicable Specific Gravity: 0.70 g/ml - 0.80 g/ml @ 15.6°C (60.1°F) (Typical) Viscosity: <1 SUS @ 37.8°C (100°F) Evaporation Rate: No data available Decomposition temperature: No data available Octanol/Water Partition Coefficient: 2 - 7

## FLAMMABLE PROPERTIES:

Flammability (solid, gas): No Data Available

Flashpoint: (Tagliabue Closed Cup ASTM D56) < -45 °C (< -49 °F) Autoignition: > 280 °C (> 536 °F) Flammability (Explosive) Limits (% by volume in air): Lower: 1.4 Upper: 7.6

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility With Other Materials: Not applicable

## SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

**Serious Eye Damage/Irritation:** The eye irritation hazard is based on evaluation of data for product components.

Skin Corrosion/Irritation: For a 4-hour exposure, the Primary Irritation Index (PII) in rabbits is: 4.8/8.0.

Skin Sensitization: This material did not cause skin sensitization reactions in a Buehler guinea pig test.

Acute Dermal Toxicity: LD50: >3.75 g/kg (rabbit).

Acute Oral Toxicity: LD50: >5 ml/kg (rat).

Acute Inhalation Toxicity: 4 hour(s) LD50: >20000 mg/m3 (rat). Acute Toxicity Estimate: Not Determined

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material. Gasoline has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Whole gasoline exhaust has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains benzene, which has been classified as a carcinogen by the National Toxicology Program (NTP) and a Group 1 carcinogen (carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains ethylbenzene which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Single Exposure:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Repeated Exposure:** The hazard evaluation is based on data for components or a similar material.

#### ADDITIONAL TOXICOLOGY INFORMATION:

Gasolines are highly volatile and can produce significant concentrations of vapor at ambient temperatures. Gasoline vapor is heavier than air and at high concentrations may accumulate in confined spaces to present both safety and health hazards. When vapor exposures are low, or short duration and infrequent, such as during refueling and tanker loading/unloading, neither total hydrocarbon nor components such as benzene are likely to result in any adverse health effects. In situations such as accidents or spills where exposure to gasoline vapor is potentially high, attention should be paid to potential toxic effects of specific components. Information about specific components in gasoline can be found in Sections 2/3, 8 and 15 of this MSDS. More detailed information on the health hazards of specific gasoline components can be obtained calling the Chevron Emergency Information Center (see Section 1 for phone numbers).

Pathological misuse of solvents and gasoline, involving repeated and prolonged exposure to high concentrations of vapor is a significant exposure on which there are many reports in the medical literature. As with other solvents, persistent abuse involving repeated and prolonged exposures to high concentrations of vapor has been reported to result in central nervous system damage and eventually, death. In a study in which ten human volunteers were exposed for 30 minutes to approximately 200, 500 or 1000 ppm concentrations of gasoline vapor, irritation of the eyes was the only significant effect observed, based on both subjective and objective assessments.

Lifetime inhalation of wholly vaporized unleaded gasoline at 2056 ppm has caused increased liver tumors in female mice and kidney cancer in male rats. In their 1988 review of carcinogenic risk from gasoline, The International Agency for Research on Cancer (IARC) noted that, because published epidemiology studies did not include any exposure data, only occupations where gasoline exposure may have occurred were reviewed. These included gasoline service station attendants and automobile mechanics. IARC also noted that there was no opportunity to separate effects of combustion products from those of gasoline itself. Although IARC allocated gasoline a final overall classification of Group 2B, i.e. possibly carcinogenic to humans, this was based on limited evidence in experimental animals plus supporting evidence including the presence in gasoline of benzene. The actual evidence for carcinogenicity in humans was considered inadequate.

MUTAGENICITY: Gasoline was not mutagenic, with or without activation, in the Ames assay (Salmonella typhimurium), Saccharamyces cerevisesae, or mouse lymphoma assays. In addition, point mutations were not induced in human lymphocytes. Gasoline was not mutagenic when tested in the mouse dominant lethal assay. Administration of gasoline to rats did not cause chomosomal aberrations in their bone marrow cells. EPIDEMIOLOGY: To explore the health effects of workers potentially exposed to gasoline vapors in the marketing and distribution sectors of the petroleum industry, the American Petroleum Institute sponsored a cohort mortality study (Publication 4555), a nested case-control study (Publication 4551), and an exposure assessment study (Publication 4552). Histories of exposure to gasoline were reconstructed for cohort of more than 18,000 employees from four companies for the time period between 1946 and 1985. The results of the cohort mortality study indicated that there was no increased mortality from either kidney cancer or leukemia among marketing and marine distribution employees who were exposed to gasoline in the petroleum industry, when compared to the general population. More importantly, based on internal comparisons, there was no association between mortality from kidney cancer or leukemia and various indices of gasoline exposure. In particular, neither duration of employment, duration of exposure, age at first exposure, year of first exposure, job category, cumulative exposure, frequency of peak exposure, nor average intensity of exposure had any effect on kidney cancer or leukemia mortality. The results of the nested case-control study confirmed the findings of the original cohort study. That is, exposure to gasoline

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at the levels experienced by this cohort of distribution workers is not a significant risk factor for leukemia (all cell types), acute myeloid leukemia, kidney cancer or multiple myeloma.

## This product contains ethylbenzene.

BIRTH DEFECTS AND REPRODUCTION: Ethylbenzene is not expected to cause birth defects or other developmental effects based on well-conducted studies in rabbits and rats sponsored by NIOSH. Other studies in rats and mice which reported urinary tract malformations have many deficiencies and have limited usefulness in evaluating human risk. Reproductive effects are not expected based on a NIOSH study of fertility, and lack of effects observed for sperm counts and motility, estrous cycle and pathology of reproductive organs following repeated exposures. HEARING: Statistically significant losses in outer hair cells (OHCs) were observed in rats exposed to >=200 ppm ethylbenzene, 6 hours/day, 6 days/week for 13 weeks, after an 8-week recovery period. Following longer exposure, inner hair cells losses were also observed in rats exposed to >= 600 ppm ethylbenzene, but only occasionally in rats exposed to 400 ppm. The Lowest Observed Adverse Effect Level in rats (LOAEL) was 200 ppm for losses of OHCs. Guinea pigs exposed to ethylbenzene at 2,500 ppm, 6 hours/day for 5 days did not show auditory deficits or losses in OHCs. The concentration of ethylbenzene used in the JP-8 study was approximately 10 ppm. GENETIC TOXICITY: Ethylbenzene tested negative in the bacterial mutation test, Chinese Hamster Ovary (CHO) cell in vitro assay, sister chromatid exchange assay and an unscheduled DNA synthesis assay. Conflicting results have been reported for the mouse lymphoma cell assay. Increased micronuclei were reported in an in vitro Syrian hamster embryo cell assay; however, two in vivo micronuclei studies in mice were negative. In Syrian hamster embryo cells in vitro, cell transformation was observed at 7 days of incubation but not at 24 hours. Based on these results, ethylbenzene is not expected to be mutagenic or clastogenic. CARCINOGENICITY: In studies conducted by the National Toxicology Program, rats and mice were exposed to ethylbenzene at 25, 250 and 750 ppm for six hours per day, five days per week for 103 weeks. In rats exposed to 750 ppm, the incidence of kidney tubule hyperplasia and tumors was increased. Testicular tumors develop spontaneously in nearly all rats if allowed to complete their natural life span; in this study, the development of these tumors appeared to be enhanced in male rats exposed to 750 ppm. In mice, the incidences of lung tumors in males and liver tumors in females exposed to 750 ppm were increased as compared to control mice but were within the range of incidences observed historically in control mice. Other liver effects were observed in male mice exposed to 250 and 750 ppm. The incidences of hyperplasia were increased in the pituitary gland in female mice at 250 and 750 ppm and in the thyroid in male and female mice at 750 ppm.

## This product contains toluene.

GENERAL TOXICITY: The primary effects of exposure to toluene in animals and humans are on the central nervous system. Solvent abusers, who typically inhale high concentrations (thousands of ppm) for brief periods of time, in addition to experiencing respiratory tract irritation, often suffer permanent central nervous system effects that include tremors, staggered gait, impaired speech, hearing and vision loss, and changes in brain tissue. Death in some solvent abusers has been attributed to cardiac arrhythmias, which appear to be have been triggered by epinephrine acting on solvent sensitized cardiac tissue. Although liver and kidney effects have been seen in some solvent abusers, results of animal testing with toluene do not support these as primary target organs.

HEARING: Humans who were occupationally exposed to concentrations of toluene as low as 100 ppm for long periods of time have experienced hearing deficits. Hearing loss, as demonstrated using behavioral

and electrophysiological testing as well as by observation of structural damage to cochlear hair cells, occurred in experimental animals exposed to toluene. It also appears that toluene exposure and noise may interact to produce hearing deficits.

COLOR VISION: In a single study of workers exposed to toluene at levels under 50 ppm, small decreases in the ability to discriminate colors in the blue-yellow range have been reported for female workers. This effect, which should be investigated further, is very subtle and would not likely have been noticed by the people tested.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: Toluene may also cause mental and/or growth retardation in the children of female solvent abusers who directly inhale toluene (usually at thousands of ppm) when they are pregnant. Toluene caused growth retardation in rats and rabbits when administered at doses that were toxic to the mothers. In rats, concentrations of up to 5000 ppm did not cause birth defects. No effects were observed in the offspring at doses that did not intoxicate the pregnant animals. The exposure level at which no effects were seen (No Observed Effect Level, NOEL) is 750 ppm in the rat and 500 ppm in the rabbit.

## This product contains xylene.

ACUTE TOXICITY: The primary effects of exposure to xylene in animals and humans are on the central nervous system. In addition, in some individuals, xylene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation. DEVELOPMENTAL TOXICITY: Xylene has been reported to cause developmental toxicity in rats and mice exposed by inhalation during pregnancy. The effects noted consisted of delayed development and minor skeletal variations. In addition, when pregnant mice were exposed by ingestion to a level that killed nearly one-third of the test group, lethality (resorptions) and malformations (primarily cleft palate) occurred. Since xylene can cross the placenta, it may be appropriate to prevent exposure during pregnancy. GENETIC TOXICITY/CARCINOGENICITY: Xylene was not genotoxic in several mutagenicity testing assays including the Ames test. In a cancer study sponsored by the National Toxicology Program (NTP), technical grade xylene gave no evidence of carcinogenicity in rats or mice dosed daily for two years. HEARING: Mixed xylenes have been shown to cause measurable hearing loss in rats exposed to 800 ppm in the air for 14 hours per day for six weeks. Exposure to 1450 ppm xylene for 8 hours caused hearing loss while exposure to 1700 ppm for 4 hours did not. Although no information is available for lower concentrations, other chemicals that cause hearing loss in rats at relatively high concentrations do not cause hearing loss in rats at low concentrations. Worker exposure to xylenes at the permissible exposure limit (100 ppm, time-weighted average) is not expected to cause hearing loss.

## This product contains naphthalene.

GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts. REPRODUCTIVE TOXICITY AND BIRTH DEFECTS: Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. GENETIC TOXICITY: Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed

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to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

## This product contains cyclohexane.

Cyclohexane primarily affects the central nervous systems of laboratory animals and humans. Acute or prolonged inhalation of cyclohexane at levels below the recommended exposure limits does not result in toxic effects while acute exposures to levels above these recommended limits can cause reversible central nervous system depression. Prolonged exposures of laboratory animals to high levels (up to low thousands of parts per million) have also caused reversible effects which included hyperactivity, diminished response to stimuli, and adaptive liver changes while very high levels (high thousands of parts per million) were fatal. No developmental effects were seen in rats or rabbits following exposures of up to 7000 ppm cyclohexane. No reproductive effects occurred in rats, although postnatal pup growth was reduced at 7000 ppm in a similar manner as observed in the parental animals. Cyclohexane has not been shown to be mutagenic in several in vitro and in vivo assays and has not produced tumors in several dermal application long-term bioassays. Based on these results and the lack of any mutagenic or genotoxic metabolites, cyclohexane is not expected to be mutagenic or genotoxic. Following dermal exposure, cyclohexane is rapidly absorbed, metabolized,and excreted.

## This product contains ethanol (ethyl alcohol).

Chronic ingestion of ethanol can damage the liver, nervous system and heart. Chronic heavy consumption of alcoholic beverages has been associated with an increased risk of cancer. Ingestion of ethanol during pregnancy can cause human birth defects such as fetal alcohol syndrome. This product contains butane. An atmospheric concentration of 100,000 ppm (10%) butane is not noticeably irritating to the eyes, nose or respiratory tract, but will produce slight dizziness in a few minutes of exposure. No chronic systemic effect has been reported from occupational exposure.

#### This product contains benzene.

GENETIC TOXICITY/CANCER: Repeated or prolonged breathing of benzene vapor has been associated with the development of chromosomal damage in experimental animals and various blood diseases in humans ranging from aplastic anemia to leukemia (a form of cancer). All of these diseases can be fatal. In some individuals, benzene exposure can sensitize cardiac tissue to epinephrine which may precipitate fatal ventricular fibrillation.

REPRODUCTIVE/DEVELOPMENTAL TOXICITY: No birth defects have been shown to occur in pregnant laboratory animals exposed to doses not toxic to the mother. However, some evidence of fetal toxicity such as delayed physical development has been seen at such levels. The available information on the effects of benzene on human pregnancies is inadequate but it has been established that benzene can cross the human placenta.

OCCUPATIONAL: The OSHA Benzene Standard (29 CFR 1910.1028) contains detailed requirements for training, exposure monitoring, respiratory protection and medical surveillance triggered by the exposure level. Refer to the OSHA Standard before using this product.

## This product contains n-hexane.

TARGET ORGAN TOXICITY: Prolonged or repeated ingestion, skin contact or breathing of vapors of n-hexane has been shown to cause peripheral neuropathy. Recovery ranges from no recovery to complete recovery depending upon the severity of the nerve damage. Exposure to 1000 ppm n-hexane for 18 hr/day for 61 days has been shown to cause testicular damage in rats. However, when rats were exposed to higher concentrations for shorter daily periods (10,000 ppm for 6 h/day, 5 days/wk for 13 weeks), no testicular lesions were seen.

CARCINOGENICITY: Chronic exposure to commercial hexane (52% n-hexane) at a concentration of 9000ppm was not carcinogenic to rats or to male mice, but did result in an increased incidence of liver tumors in female mice. No carcinogenic effects were observed in female mice exposed to 900 or 3000 ppm hexane or in male mice. The relevance for humans of these hexane-induced mouse liver tumors is questionable.

GENETIC TOXICITY: n-Hexane caused chromosome aberrations in bone marrow of rats, but was negative in the AMES and mouse lymphoma tests.

## SECTION 12 ECOLOGICAL INFORMATION

## ECOTOXICITY

This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

48 hour(s) LC50: 3.0 mg/l (Daphnia magna)
96 hour(s) LC50: 1.8 mg/l (Mysidopsis bahia)
96 hour(s) LC50: 8.3 mg/l (Cyprinodon variegatus)
96 hour(s) LC50: 2.7 mg/l (Oncorhynchus mykiss)

## MOBILITY

No data available.

## PERSISTENCE AND DEGRADABILITY

This material is expected to be readily biodegradable. Following spillage, the more volatile components of gasoline will be rapidly lost, with concurrent dissolution of these and other constituents into the water. Factors such as local environmental conditions (temperature, wind, mixing or wave action, soil type, etc), photo-oxidation, biodegradation and adsorption onto suspended sediments, can contribute to the weathering of spilled gasoline.

The aqueous solubility of non-oxygenated unleaded gasoline, based on analysis of benzene, toluene, ethylbenzene+xylenes and naphthalene, is reported to be 112 mg/l. Solubility data on individual gasoline

constituents also available.

## POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: 2 - 7

## SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations. Check governmental regulations and local authorities for approved disposal of this material.

## SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** UN1203, GASOLINE, 3, II; OPTIONAL DISCLOSURE: UN1203, GASOLINE, 3, II, MARINE POLLUTANT (GASOLINE)

**IMO/IMDG Shipping Description:** UN1203, GASOLINE, 3, II, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (GASOLINE)

ICAO/IATA Shipping Description: UN1203, GASOLINE, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

## SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES:

Immediate (Acute) Health Effects: YES
 Delayed (Chronic) Health Effects: YES
 Fire Hazard: YES
 Sudden Release of Pressure Hazard: NO
 Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Cyclohexane	05, 06, 07
Heptane	05, 06, 07
Methylcyclohexane	05, 06, 07
Pentane, 2,2,4-trimethyl- (Isooctane)	05, 06, 07
Naphthalene	01-2B, 02, 04, 05, 06, 07
Butane	05, 06, 07
Ethanol	01-1, 02, 04, 05, 06, 07
Gasoline	01-2B, 07
Ethyl benzene	01-2B, 03, 04, 05, 06, 07
Toluene (methylbenzene)	04, 05, 06, 07
Benzene	01-1, 02, 03, 04, 05, 06, 07
Hexane	05, 06, 07
Xylene (contains o-, m-, & p- xylene isomers in	03, 05, 06, 07
varying amounts)	

## CERCLA REPORTABLE QUANTITIES(RQ)/EPCRA 302 THRESHOLD PLANNING QUANTITIES(TPQ):

Component	Component RQ	Component TPQ	Product RQ
Benzene	10 lbs	None	186 lbs
Cyclohexane	1000 lbs	None	34188 lbs
Ethyl benzene	1000 lbs	None	34964 lbs
Hexane	5000 lbs	None	129149 lbs
Naphthalene	100 lbs	None	4000 lbs
Pentane, 2,2,4-trimethyl- (Isooctane)	1000 lbs	None	6270 lbs
Toluene (methylbenzene)	1000 lbs	None	2627 lbs
Xylene (contains o-, m-, & p- xylene	100 lbs	None	649 lbs
isomers in varying amounts)			

## CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), ENCS (Japan), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

## SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 3 Reactivity: 0

**HMIS RATINGS:** Health: 2\* Flammability: 3 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Additional Product Number(s): 201003, 201004, 201006, 201007, 201008, 201010, 201011, 201018, 201021, 201025, 201031, 201032, 201033, 201034, 201036, 201037, 201038, 201041, 201043, 201046, 201048, 201064, 201208, 201210, 201211, 201212, 201230, 201231, 201232, 201260, 201261, 201262, 201271, 201272, 201273, 201280, 201281, 201282, 201288, 201290, 201291, 201292, 201851, 201852, 201858, 201859, 201860, 204004, 204005, 204012, 204013, 204024, 204025, 204048, 204049, 204072, 204073, 204090, 204091, 204106, 204107, 204118, 204119, 204142, 204143, 204166, 204167, 204190, 204191, 204202, 204203, 204209, 204214, 204215, 204226, 204227, 204250, 204251, 204274, 204275, 204292, 204293, 204325, 204326, 204360, 204361, 204366, 204367, 204372, 204373, 204378, 204379, 204384, 204385, 204390, 204391, 204396, 204397, 204402, 204403, 204408, 204409, 204414, 204415, 204420, 204421, 204426, 204427, 204432, 204433, 204438, 204439, 204468, 204469, 204487, 204504, 204505, 204522, 204523, 204540, 204541, 204558, 204559, 204576, 204577, 204594, 204595, 204612, 204613, 204603, 204631, 204648, 204649, 204666, 204667, 204692, 204693, 204698, 204699, 204704, 204705, 204710, 204711, 204723, 204724, 204729, 204730

#### **REVISION STATEMENT:**

SECTION 01 - Product Code(s) information was modified.

SECTION 05 - Extinguishing Media information was modified.

SECTION 08 - Occupational Exposure Limit Table information was modified.

SECTION 16 - HMIS Rating information was modified.

SECTION 16 - NFPA Rating information was modified.

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#### ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)

IARC - International Agency for Research on	OSHA - Occupational Safety and Health Administration
Cancer	
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

U.S. Department of Labor **Material Safety Data Sheet** Occupational Safety and Health Administration May be used to comply with (Non-Mandatory Form) OSHA's Hezard Communication Standard. Form Approved OMB No. 12180072 29 CFR 1910.1200. Standard must be Note: Black spaces are not permitted. If any item is not applicable or no information is available, the space must be marked consulted for specific requirements. IDENTITY (As Used on Label and List) **Clean-Rite Purple Power** to indicate that.

Section I - Manufacturer	Emergency Telephone Num	leer .
Annufacturer's Name	1-800-922-1117; (	864) 765-7359
IKEN CHEMICAL COMPANY	Telephone Number for Jole	ممتنبيه
ddress (Number, Street, City, State and Zip Code)	(864) 968-1250; 1-	800-828-1860
P. O. Box 27147	Date Prepared:	Revision #
	September 18, 1998	6
Greenville, SC 29616		April 2, 2008
	Signature of Preparer (opt	(hoal)
12 Shelter Dr., Greer, SC 29650		

			OTHER	
Section II-Hazardous Ingredients/Identify Information Hazardous Components (Specific Chemical Identity: Common	osha pel	ACGIH TLV	LIMITS	**•
Name(a)	25ppm-	25ppm-		
Ethylene Glycol Monobutyl Ether CAS No. 111-76-2 All the ingredients of this product are listed on the	Skin	Skin tory. NFPA 2-1-O		

Section III - Physical/Chemical Chara	cteristics		11.000
Bolling Point	>212°F	Specific Gravity (120 - 1)	1.020
Vapor Pressure (mm Hg.)	ND	Melting Point	NA
Vapor Density (AIR#1)	ND	Evaporation Rate (Butyl Acctate=1)	<1.0
Solubility in Water		ρĦ	12.50
Complete			

Clear liquid with characteristic odor.

# Section IV - Fire and Explosion Hazard Data

and the second second

Flash Point (Method Used)	PMCC > 200 Degrees F	Finnable Limits Not Determined	LEL ND	UEL ND
Extinguishing Media Water fog, alcohol foam, o	arbon dioxide or dry chemica	1		
Special Fire Fighting Procedur Use water to keep fire-exp	es osed containers cool until fire	: is out.	· · · · · · · · · · · · · · · · · · ·	

Never use a welding or cutting torch or other source of heat on or near chemical product containers

age 2		IDEN	NTITY: Clean-Rite Purple Power
Section V - Reactivity I	)ete		
tability	Unstable		Conditions to Avoid
			Mixing or blending with oxidizing or low pH
	Stable	x	
			solutions
neompatibility (Materials to	Avotd)		i to to executio acida
Avoid contact with react	tive metals, strong in	uneral ac	tios and organic actus.
an an an the second share of	- Russodinch		
Carbon dioxide, carbon	monoxide and vario	us nyaroo	Conditions to Avoid
Hazardons Polymenzation	May Octur		
	WHI Not Occur	x	None
Section VI - Health H	zerd Data		Skin? Ingestion?
Routes of Eatry:	Initation?	Eye	
	yes		yes yes yes
Henich Hazards (Acute and	Chronic)		
See Section IX			BC Menseepis? OSHA Regulated?
Carcinogenicity:	NTP7	<u>IA</u>	Wr. htmm
Cat cano be name à .	No		<u>No</u> <u>No</u>
Signs and Symptoms of Exp			
May cause burning or i	rritation to cycs and	nasal pas	seeges.
Conceptly Accepted by E	aposare: Preexisti	ng skin	and respiratory problems
Emergency and First Aid P	rocedures		See Section IX
Section VII - Precant	lons for Safe Hand	ling sad	Use
Steps to Be Taken in Case	Material is Released or	Spilled	
			ing. Remaining liquid may be taken up with
sand clay, floor absor	bent, or other absorb	ent mater	rial and shoveled into salvage containers.
Dispose of in accordan	ce will all local, sta	te and fee	deral regulations.
Other Precautions:			
	NONE		
Section VIII - Contra	I Measures		
Bespiratory Protection (8)	pecify Type)		the set to a set of a
When required, wear	NIOSH/ MSA appro	oved respi	sirator if in a confined space without local or mechanical exhaust
system.			Special
Ventilation	Local Exhaust	ceptable	NONE
	Mechanical(Gener		Other:
	To reduce	86/ #X1502107#	
	10 reduce	extrante	i Fee Protection
The second secon			By C Freedom and the stand of the form

Neoprene, Nitrile Rubber, polyethylene

Other Protective Clothing or Equipment To prevent skin contact, wear impervious clothing and boots Work Hygienic Practices

Protective Gloves

Always use caution when working with chemicals. Wash hands before eating or smoking.

shield.

Chemical safety glasses with side shields and/or face

# Section IX - Routes and Effects of Overexposure:

#### SKIN:

Prolonged or repeated contact can cause irritation, defatting, or dermatitits.

#### EYES:

Can cause redness, tearing, irritation or burns.

## INCESTION:

Can cause gastrointestinal irritation or burns to digestive tract

#### INHALATION:

Excessive inhalation of vapors can cause irritation or nasal and respiratory Passages.

## Emergency and First Aid Procedures:

#### SKIN:

Remove contaminated clothing. Thoroughly wash exposed area with soap and water for at least 15 minutes. If irritation persists, seek medical attention.

#### EYES:

Immediately flush eyes with large amounts of water for at least 15 Minutes, lifting upper and lower eyelids periodically to insure complete flushing. If irritation persists, seek medical attention.

#### INCESTION:

DO NOT induce vomiting. Dilute by giving large amounts of water. Seek medical attention immediately.

## INHALATION:

Remove individual to fresh air. If breathing has stopped, give artificial respiration. Seek medical attention.

#### Page 3



# SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product Name	Clorox® Bleach
Other means of identification	
Synonyms	None
Recommended use of the chemica	l and restrictions on use
Recommended use	Laundry and household bleach
Uses advised against	No information available
Details of the supplier of the safety	data sheet
<b>Supplier Address</b> The Clorox Company of Canada Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3	
Emergency telephone number	
Emergency Phone Numbers	For Medical Emergencies, call: 1-800-446-1014

For Medical Emergencies, call: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2A

#### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal word	Warning		
Hazard Statements Causes serious eye irritation			
$\sim$			
Appearance Clear, pale yello	w Physical State Liquid	Odor	Bleach

#### **Precautionary Statements - Prevention**

Wash hands and any exposed skin thoroughly after handling. Wear eye protection/face protection such as safety glasses.

#### Precautionary Statements - Response

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Precautionary Statements - Storage

None

## Precautionary Statements - Disposal

None

#### Hazards not otherwise classified (HNOC)

Not applicable.

#### Unknown Toxicity

0.06% of the mixture consists of ingredient(s) of unknown toxicity

#### **Other information**

Very toxic to aquatic life with long lasting effects.

#### Interactions with Other Chemicals

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name CAS-No		Weight %	Trade Secret
Sodium hypochlorite	7681-52-9	1 - 5	*
Sodium hydroxide	1310-73-2	0.1 - 1	*
* The exact perc	entage (concentration) of composition has 4. FIRST AID MEASURE		secret.
First aid measures		-	
General Advice	Show this safety data sheet to the docto	or in attendance.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.		
Skin Contact	Take off contaminated clothing. Rinse skin with plenty of water. If irritation develops, call a doctor.		
Inhalation	Move to fresh air. If breathing is affected, call a doctor.		
Ingestion	Drink a glassful of water. Call a poison control center or doctor immediately. DO NOT induce vomiting unless told to do so by a poison control center or doctor.		
Protection of First-aiders	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).		
Most important symptoms and eff	ects, both acute and delayed		
Most Important Symptoms and Effects	Stinging and irritation of eyes.		
Indication of any immediate medio	al attention and special treatment need	ed	
Notes to Physician	Treat symptomatically.		

## **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

#### Specific Hazards Arising from the Chemical

No information available.

#### **Explosion Data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions	Avoid contact with eyes, skin, and clothing. Use personal protective equipment as required.		
Other Information	Refer to protective measures listed in Sections 7 and 8.		
Environmental precautions			
Environmental Precautions	See Section 12 for ecological Information.		
Methods and material for containme	ent and cleaning up		
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.		

## 7. HANDLING AND STORAGE

Precautions for safe handling		
Handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product.	
Conditions for safe storage, including any incompatibilities		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.	
Incompatible Products	Toilet bowl cleaners, rust removers, acids, and ammonia-containing products.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

## Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.
Skin and Body Protection	Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Physical and Chemical Properties**

Physical State	Liquid		
Appearance	Clear	Odor	Bleach
Color	Pale yellow	Odor Threshold	No information available
_			
Property	<u>Values</u>	Remarks/ Method	
рН	~12.5	None known	
Melting/freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	Not flammable	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
Upper flammability limit	No data available	None known	
Lower flammability limit	No data available	None known	
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	~1.05	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wate	erNo data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive Properties	Not explosive		
Oxidizing Properties	No data available		
Other Information			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		

## **10. STABILITY AND REACTIVITY**

#### **Reactivity**

Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds.

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### Conditions to avoid

None known based on information supplied.

#### Incompatible materials

Toilet bowl cleaners, rust removers, acids, and ammonia-containing products.

#### Hazardous Decomposition Products

None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

#### Product Information

Inhalation	Exposure to vapor or mist may irritate respiratory tract.
Eye Contact	May cause eye irritation.
Skin Contact	Prolonged contact may cause irritation.
Ingestion	Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea, vomiting, and diarrhea.

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite 7681-52-9	8200 mg/kg (Rat)	>10000 mg/kg (Rabbit)	-
Sodium hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-

#### Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects

No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure Chronic Toxicity Target Organ Effects	No information available. Carcinogenic potential is unknown. Respiratory system, eyes, skin, gastrointestinal tract (GI).
Aspiration Hazard	No information available.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document 117.20 mg/l ATEmix (4 hr)

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

## Persistence and Degradability

No information available.

#### **Bioaccumulation**

No information available.

## Other adverse effects

No information available.

## **13. DISPOSAL CONSIDERATIONS**

#### **Disposal methods**

Dispose of in accordance with all applicable federal, state, and local regulations.

## **Contaminated Packaging**

Do not reuse empty containers. Dispose of in accordance with all applicable federal, state, and local regulations.

# **14. TRANSPORT INFORMATION**

DOT

#### NOT REGULATED

TDG	UN3082
UN-No	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name	9
Hazard Class	III
Packing Group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
Description	HYPOCHLORITE), 9, III, MARINE POLLUTANT
ICAO	UN3082
UN-No	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name	9
Hazard Class	III
Packing Group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
Description	HYPOCHLORITE), 9, III
IATA	UN3082
UN-No	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper Shipping Name	9
Hazard Class	III
Packing Group	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
Description	HYPOCHLORITE), 9, III

#### IMDG/IMO

UN-No	UN3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Hazard Class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM
	HYPOCHLORITE), 9, III, MARINE POLLUTANT

# **15. REGULATORY INFORMATION**

## **Chemical Inventories**

TSCA	All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt
DSL/NDSL	from listing. All components are on the DSL or NDSL.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb			х
Sodium hydroxide 1310-73-2	1000 lb			х

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
Sodium hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ

## US State Regulations

# California Proposition 65

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Sodium hypochlorite 7681-52-9	Х	х	х	Х	
Sodium hydroxide 1310-73-2	Х	х	Х	Х	

## International Regulations

## Canada

WHMIS Hazard Class D2B - Toxic materials



# **16. OTHER INFORMATION**

<u>NFPA</u>	Health Hazard	2	Flammability 0	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard	2	Flammability 0	Physical Hazard 0	Personal Protection B
Prepared E	Зу		Product Stewardship 23 British American Bly Latham, NY 12110 1-800-572-6501	/d.	
Revision D	Date		New		
Revision N	lote		New		
Reference			1076851/173214.001		

#### **General Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

#### End of Safety Data Sheet



# FICHE DE DONNÉES DE SÉCURITÉ

**Date d'émission** 5 janvier 2015

Date de révision Nouvelle

Numéro de révision 0

# 1. IDENTIFICATION DE LA SUBSTANCE/DE LA PRÉPARATION ET DE LA SOCIÉTÉ/L'ENTREPRISE

Identificateur de produit	
Nom du produit	Eau de Javel Clorox <sup>®</sup>
Autres moyens d'identification	
Synonymes	Aucun
Utilisation recommandée pour le pr d'utilisation	oduit chimique et restrictions en matière
Utilisation recommandée	Lessive et eau de Javel domestique
Utilisations déconseillées	Aucune information disponible
Renseignements concernant le four	nisseur de la fiche de données de sécurité
<b>Adresse du fournisseur</b> The Clorox Company of Canada Ltd. 150 Biscayne Crescent Brampton, Ontario L6W 4V3	
Numéro de téléphone d'urgence	
Numéros de téléphone d'urgence	Pour des urgences médicales, appelez : 1 800 446-1014 Pour des urgences en matière de transport, appelez Chemtrec : 1 800 424-9300

# 2. IDENTIFICATION DES DANGERS

## **Classification**

Ce produit chimique est considéré comme dangereux selon la norme sur la communication des renseignements à l'égard des matières dangereuses 2012 d'OSHA (29 CFR 1910.1200)

Lésions oculaires graves/irritation oculaire

Catégorie 2A

#### Éléments d'étiquetage SGH, y compris les conseils de prudence

Vue d'ensemble des procédures d'urgence

Mot indicateur	Avertissement	
Mentions de danger		
Provoque une sévère irritati	on des yeux	
Apparence Transparent,	jaune pâle État physique Liquide	<b>Odeur</b> Javellisan

## Conseils de prudence - Prévention

Se laver les mains et toute peau exposée à fond après manutention. Porter une protection oculaire/faciale telle que des lunettes de sécurité.

#### Conseils de prudence - Réaction

## Yeux :

EN CAS DE CONTACT AVEC LES YEUX : Rincer prudemment avec de l'eau pendant plusieurs minutes. Retirer les verres de contact si la victime en porte et qu'il est possible de les retirer facilement. Continuer à rincer. Si l'irritation oculaire persiste : Obtenir une consultation médicale ou des soins médicaux.

#### Conseils de prudence - Stockage

Aucun

#### Conseils de prudence - Élimination

Aucun

#### Dangers non classés ailleurs (DNCA)

Sans objet.

#### Toxicité inconnue

0,06 % du mélange est constitué d'ingrédients de toxicité inconnue

#### Autres informations

Très toxique pour les organismes aquatiques, entraîne des effets à long terme

#### Interactions avec d'autres produits chimiques

Réagit avec d'autres produits chimiques domestiques tels que nettoyants de cuvette de toilette, les produits antirouille, les acides et les produits à base d'ammoniac pour produire des gaz dangereux, comme le chlore et autres produits chlorés.

# 3. COMPOSITION / INFORMATION SUR LES COMPOSANTS

Nom chimique	N° CAS	% en poids	Secret commercial
Hypochlorite de sodium	7681-52-9	1 - 5	*
Hydroxyde de sodium	1310-73-2	0,1 - 1	*
* La pourcontage (concentration) exact de composition est retenu comme un secret commercial			

Le pourcentage (concentration) exact de composition est retenu comme un secret commercial.

# **4. PREMIERS SOINS**

Premiers soins			
Conseils généraux	Présenter cette fiche signalétique au médecin traitant.		
Contact avec les yeux	Rincer immédiatement avec une grande quantité d'eau, également sous les paupières, pendant au moins quinze minutes. Retirer les verres de contact si la victime en porte et qu'il est possible de les retirer facilement. Continuer à rincer. Garder les yeux grands ouverts lors du rinçage. Ne pas frotter la partie touchée. Obtenir des soins médicaux si une irritation se produit et persiste.		
Contact avec la peau	Retirer les vêtements contaminés. Rincer la peau avec beaucoup d'eau. En cas d'irritaiton, appeler un médecin.		
Inhalation	Déplacer à l'air frais. Si la respiration est touchée, appeler un médecin.		
Ingestion	Boire un verre d'eau. Appeler immédiatement un centre antipoison ou un médecin. NE PAS provoquer de vomissements à moins d'en avoir reçu la directive d'un centre antipoison ou d'un médecin.		
Protection des secouristes	Éviter le contact avec la peau, les yeux ou les vêtements. Utiliser l'équipement de protection individuel requis. Porter des vêtements de protection individuelle (voir la section 8).		
Symptômes/effets les plus importa	nts, aigus et retardés		
Symptômes/effets les plus importants	Picotement et irritation des yeux.		
Indications quant à la nécessité éventuelle d'une prise en charge médicale immédiate ou d'un traitement spécial			
Notes au médecin	Traiter en fonction des symptômes.		

# 5. MESURES À PRENDRE EN CAS D'INCENDIE

#### Agents extincteurs appropriés

Utiliser des mesures d'extinction appropriées aux circonstances locales et à l'environnement immédiat.

#### Agents extincteurs inappropriés

ATTENTION : L'utilisation d'une pulvérisation d'eau pour combattre un incendie peut se révéler inefficace.

# Dangers spécifiques du produit

Aucune information disponible.

## Données sur les risques d'explosion

Sensibilité à un choc mécanique Aucune.

Sensibilité à une décharge statique Aucune.

#### Équipement de protection et précautions pour les pompiers

Comme avec tout incendie, porter un appareil respiratoire autonome à demande de pression, MSHA/NIOSH (homologué ou équivalent) et une tenue de protection complète.

## 6. MESURES À PRENDRE EN CAS DE DÉVERSEMENTS ACCIDENTELS

#### Précautions individuelles, équipement de protection et mesures d'urgence

Précautions individuelles	Éviter tout contact avec les yeux, la peau et les vêtements. Utiliser l'équipement de protection individuelle requis.	
Autres informations	Consulter les mesures de protection données aux sections 7 et 8.	
Précautions relatives à l'environnement		
Précautions relatives à l'environnement	Voir la Section 12 pour des données écologiques.	
Méthodes et matériaux pour l'isolation et le nettoyage		
Méthodes d'isolation	Empêcher d'autres fuites ou déversements lorsqu'il est possible de le faire en toute sécurité.	
Méthodes de nettoyage	Absorber et conteneuriser. Laver les résider et les envoyer à un égout sanitaire. Contacter une installation de traitement sanitaire à l'avance pour s'assurer de sa capacité à traiter le matériel emporté.	

# 7. MANUTENTION ET STOCKAGE

#### Précautions relatives à la sécurité de manutention

Manutention	Manipuler conformément aux bonnes pratiques de sécurité et d'hygiène industrielle. Éviter le contact avec la peau, les yeux et les vêtements Ne pas manger, boire ou fumer en manipulant le produit.
Conditions de sécurité de stockage,	y compris les incompatibilités
Stockage	Conserver les récipients bien fermés dans un endroit sec, frais et bien ventilé.
Produits incompatibles	Nettoyants de cuvette de toilette, les produits antirouille, les acides et les produits à base d'ammoniac.

# 8. CONTRÔLE DE L'EXPOSITION/PROTECTION INDIVIDUELLE

# Paramètres de contrôle

## Directives relatives à l'exposition

Nom chimique	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydroxyde de sodium 1310-73-2	Valeur plafond : 2 mg/m <sup>3</sup>	TWA : 2 mg/m <sup>3</sup>	IDLH : 10 mg/m <sup>3</sup> Valeur plafond : 2 mg/m <sup>3</sup>

ACGIH TLV : Conférence américaine des hygiénistes industriels gouvernementaux - valeur limite d'exposition OSHA PEL : Administration de la sécurité et de la santé professionnelle - limites d'exposition admissibles NIOSH IDLH : Dangereux immédiatement pour la santé ou la vie.

#### Contrôles d'ingénierie appropriés

Mesures techniques	Douches
	Douches oculaires
	Systèmes de ventilation

#### Mesures de protection individuelle telles que les équipements de protection individuelle

Protection des yeux/du visage	En cas d'éclaboussures probables : Porter des lunettes de sécurité à écrans latéraux (ou des lunettes à coques). Aucune nécessaire pour une utilisation par le consommateur.
Protection de la peau et du corps	Porter des gants en caoutchouc ou en néoprène s'il existe une possibilité d'un contact répété ou prolongé avec la peau.
Protection respiratoire	En cas d'irritation ou de dépassement des limites d'exposition, vous devez porter une protection respiratoire approuvée NIOSH/MSHA. Des respirateurs à adduction d'air à pression positive peuvent être requis pour des concentrations élevées de contaminants atmosphériques. Une protection respiratoire doit être fournie conformément à la réglementation locale en cours.
Mesures d'hygiène	Retirer et laver les vêtements contaminés avant de les réutiliser. Éviter le contact avec la peau, les yeux ou les vêtements. Ne pas manger, boire ou fumer en manipulant le produit.

# 9. PROPRIÉTÉS PHYSIQUES ET CHIMIQUES

## Propriétés physiques et chimiques

État	physique	
App	arence	
Cou	leur	

**Propriété** 

Valeurs

Jaune pâle

Liquide Transparent

	1010010
рН	~ 12,5
Point de fusion/point de congélation	Aucune donnée disponible
Point d'ébullition / Domaine	Aucune donnée disponible
d'ébullition	
Point d'éclair	Ininflammable
Taux d'évaporation	Aucune donnée disponible
Inflammabilité (solide, gaz)	Aucune donnée disponible
Limites d'inflammabilité dans l'air	
Limite supérieure d'inflammabilité	Aucune donnée disponible
Limite inférieure d'inflammabilité	Aucune donnée disponible
Tension de vapeur	Aucune donnée disponible
Densité de la vapeur	Aucune donnée disponible
Densité	~ 1,05
Solubilité dans l'eau	Soluble dans l'eau
Solubilité dans d'autres solvants	Aucune donnée disponible
Coefficient de partage :	Aucune donnée disponible
n-octanol/eau	
Température d'auto-inflammation	Aucune donnée disponible
Température de décomposition	Aucune donnée disponible
Viscosité cinématique	Aucune donnée disponible
Viscosité dynamique	Aucune donnée disponible
Propriétés explosives	Non explosif
Propriétés comburantes	Aucune donnée disponible
Autres informations	
Point de ramollissement	Aucune donnée disponible

Point de ramollissement Teneur en COV (%) Dimension de particules Distribution granulométrique

Aucune donnée disponible Aucune donnée disponible Aucune donnée disponible Aucune donnée disponible Odeur Seuil olfactif Javellisant Aucune information disponible

#### **Remarques/ Méthode**

Aucune connue Aucune connue Aucune connue

Aucune connue Aucune connue Aucune connue

Aucune connue Aucune connue Aucune connue Aucune connue Aucune connue Aucune connue Aucune connue Aucune connue

Aucune connue Aucune connue Aucune connue

# **10. STABILITÉ ET RÉACTIVITÉ**

## <u>Réactivité</u>

Réagit avec d'autres produits chimiques domestiques tels que nettoyants de cuvette de toilette, les produits antirouille, les acides et les produits à base d'ammoniac pour produire des gaz dangereux, comme le chlore et autres produits chlorés.

#### Stabilité chimique

Stable dans les conditions de stockage recommandées.

#### Risque de réactions dangereuses

Aucun dans des conditions normales de traitement.

#### Conditions à éviter

Aucune connue selon les renseignements fournis.

#### Matériaux incompatibles

Nettoyants de cuvette de toilette, les produits antirouille, les acides et les produits à base d'ammoniac.

#### Produits de décomposition dangereux

Aucune connue selon les renseignements fournis.

# **11. DONNÉES TOXICOLOGIQUES**

#### Les voies d'exposition probables

#### Renseignements sur le produit

Inhalation	Une exposition aux vapeurs ou à la bruine peut irriter les voies respiratoires.
Contact avec les yeux	Peut causer une irritation des yeux.
Contact avec la peau	Un contact prolongé peut causer une irritation.
Ingestion	Une ingestion peut provoquer une irritation des muqueuses et du tractus gastro-intestinal, des nausées, des vomissements et une diarrhée.

#### Informations sur les composants

Nom chimique	DL <sub>50</sub> orale	DL <sub>50</sub> cutanée	CL <sub>50</sub> par inhalation
Hypochlorite de sodium 7681-52-9	8 200 mg/kg (rat)	> 10 000 mg/kg (lapin)	-
Hydroxyde de sodium 1310-73-2	-	1350 mg/kg (lapin)	-

#### Informations sur les effets toxicologiques

Symptômes Peut causer une rougeur et un larmoiement des yeux.

## Les effets retardés et immédiats ainsi que les effets chroniques dus à une exposition à court et long terme

Sensibilisation	Aucune information disponible.
-----------------	--------------------------------

- Effets mutagènes Aucune information disponible.
- **Cancérogénicité** Le tableau ci-dessous indique si chaque agence a inscrit un ingrédient comme étant cancérigène.

Nom chimique	ACGIH	CIRC	NTP	OSHA
Hypochlorite de sodium 7681-52-9	-	Groupe 3	-	-
•	nal de recherche sur le ca	,		
Groupe 3 - Ne peut être e	classifié pour la cancérogéni	cité chez les humains		
Toxicité pour la reprodu	ction Aucune info	rmation disponible.		
Toxicité pour certains or cibles - exposition uniqu	•	rmation disponible.		
Toxicité pour certains or cibles - exposition répéte	-	rmation disponible.		
Toxicité chronique		cancérogène est inconnu.		
Effets sur les organe	s cibles Appareil res	piratoire, yeux, peau, tractu	us gastro-intestinal (GI).	
Danger par aspiration		rmation disponible.		

### Valeurs numériques de la toxicité - Information sur le produit

## Les valeurs suivantes sont calculées selon le chapitre 3.1 du document SGH :

117,20 mg/l ETAmél (4 h)

# **12. DONNÉES ÉCOLOGIQUES**

#### <u>Écotoxicité</u>

Très toxique pour les organismes aquatiques, entraîne des effets à long terme.

#### Persistance et dégradation

Aucune information disponible.

#### **Bioaccumulation**

Aucune information disponible.

## Autres effets nocifs

Aucune information disponible.

# 13. DONNÉES SUR L'ÉLIMINATION DU PRODUIT

#### Méthodes d'élimination

Éliminer conformément à tous les règlements fédéraux, provinciaux et locaux.

#### Récipients contaminés

Ne pas réutiliser les récipients vides. Éliminer conformément à tous les règlements fédéraux, provinciaux et locaux.

# 14. INFORMATIONS RELATIVES AU TRANSPORT

## DOT

## NON RÉGLEMENTÉ

<u>TMD</u>

Numéro ONU	UN3082
Désignation officielle de transport	MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A.
Classe de danger	9
Groupe d'emballage	III
Description	UN3082, MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A. (HYPOCHLORITE DE SODIUM), 9, III, POLLUANT MARIN

OACI : Numéro ONU Désignation officielle de transport Classe de danger Groupe d'emballage Description	UN3082 MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A. 9 III UN3082, MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A. (HYPOCHLORITE DE SODIUM), 9, III
IATA	
Numéro ONU	UN3082
Désignation officielle de	MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A.
transport Classe de danger	9
Groupe d'emballage	9 III
Description	III UN3082, MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A. (HYPOCHLORITE DE SODIUM), 9, III
IMDG/OMI	
Numéro ONU	UN3082
Désignation officielle de	MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A.
transport Classe de danger	9
Groupe d'emballage	
EmS N°	F-A, S-F
Polluant marin	Le produit est un polluant marin selon les critères fixés par l'IMDG/OMI
Description	UN3082, MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A. (HYPOCHLORITE DE SODIUM), 9, III, POLLUANT MARIN

# 15. INFORMATIONS SUR LA RÉGLEMENTATION

#### Inventaire de produits chimiques

#### **TSCA**

LIS/LES

Tous les composants de ce produit sont soit inscrits sur l'inventaire TSCA 8(b) ou sont exempts d'inscription. Tous les composants sont inclus dans la LIS ou la LES.

**TSCA** - États-Unis - Section 8 (b) de l'inventaire TSCA (loi réglementant les substances toxiques) **LIS/LES** – liste intérieure des substances/liste extérieure des substances pour le Canada

## ÉTATS-UNIS Règlements fédéraux

## SARA 313

Section 313 du titre III de la loi du Superfund Amendments and Reauthorization Act de 1986 (SARA). Ce produit ne contient aucun produit chimique soumis aux exigences en matière de rapport de la Loi et du titre 40 du Code of Federal Regulations, partie 372

## SARA 311/312 Catégories de dangers

Risque aigu pour la santé	Oui
Danger chronique pour la santé	Non
Risque d'incendie	Non
Danger de libération soudaine de pression	Non
Danger de réaction	Non

#### Loi sur la qualité de l'eau (Clean Water Act)

Ce produit contient les substances suivantes qui sont des polluants réglementés conformément à la loi sur la qualité de l'eau (Clean Water Act) (40 CFR 122.21 et 40 CFR 122.42)

Nom chimique	CWA - quantités à déclarer	CWA - polluants toxiques	CWA - polluants prioritaires	CWA - substances dangereuses
Hypochlorite de sodium 7681-52-9	100 lb			Х
Hydroxyde de sodium 1310-73-2	1000 lb			Х

## CERCLA

Sous sa forme commerciale, ce produit contient une ou plusieurs substances réglementées comme une substance dangereuse en vertu de CERCLA (Comprehensive Environmental Response Compensation and Liability Act) (40 CFR 302)

Nom chimique	Quantités à déclarer de substances dangereuses	Quantités à déclarer de substances très dangereuses	Quantité à déclarer (QD)
Hypochlorite de sodium 7681-52-9	100 lb	-	QD 100 lb QD finale QD 45,4 kg QD finale
Hydroxyde de sodium 1310-73-2	1000 lb	-	QD 1000 lb QD finale QD 454 kg QD finale

# États-Unis - Réglementation des états

#### Proposition 65 de la Californie

Ce produit ne contient aucun produit chimique de la proposition 65.

#### Règlement d'état sur le droit à l'information aux États-Unis

Nom chimique	New Jersey	Massachusetts	Pennsylvanie	Rhode Island	Illinois
Hypochlorite de sodium 7681-52-9	х	х	Х	Х	
Hydroxyde de sodium 1310-73-2	Х	х	Х	Х	

## **Règlements internationaux**

#### Canada

**Classe de dangers du SIMDUT** D2B - Matières toxiques



# **16. AUTRES INFORMATIONS**

<u>NFPA</u>	Danger pour la santé	2 <b>Inflammabilité</b> 0	Instabilité 0		Propriétés physiques et	chimiques -
<u>HMIS</u>	Danger pour la santé	2 <b>Inflammabilité</b> 0	Danger physique	0	Protection individuelle	В
Préparée p	bar	Product Stewardship 23 British American Blv Latham, NY 12110 1 800 572-6501	d.			
Date de ré	vision	Nouvelle				
Note de ré	vision	Nouvelle				
Référence		1076851/173214.001				

#### Avis de non-responsabilité général

À notre connaissance et selon nos renseignements et notre opinion à la date de publication de cette fiche signalétique, les renseignements fournis dans cette dernière sont exacts. Les renseignements donnés sont conçus uniquement comme un guide pour la manipulation, l'utilisation, le traitement, l'entreposage, le transport, l'élimination et le rejet sécuritaires du produit et ne doivent pas être considérés comme une garantie ou une norme de qualité. Les renseignements sont liés uniquement au produit particulier indiqué et peuvent ne pas être valides pour un tel produit utilisé en association avec toute autre substance ou dans tout autre procédé, sauf si indiqué dans le texte.

#### Fin de la fiche signalétique



# CANBERRA CORPORATION SAFETY DATA SHEET

# 1. Identification

Product Identifier: DETERGENT THICKENED HUSKY 302 D/T BOWL CLEANER

Application or recommended use: Disinfectant toilet bowl cleaner

Restrictions on use: Do not use in any fashion not specified on the product label.

Manufacturer / supplier: Canberra Corporation

3610 N. Holland-Sylvania Rd. Toledo, Ohio 43615 USA

Telephone: 419-841-6616 Emergency phone: 800-832-8992 National Poison Center: 800-222-1222

# 2. Hazards Identification

**GHS Classification:** 

tion: Classification of this mixture in accordance with paragraph (d) of §1910.1200. Skin Corrosion/Irritation - Category 1B Eye Damage/Irritation - Category 1 Corrosive to Metals - 1

#### Label Elements:

Symbol:



DANGER
Causes severe skin burns and serious eye damage.
May be corrosive to metals.
ents: Do not breathe mist/vapors/spray.
Wash hands, face and any skin contact thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep only in original container.
Absorb spillage to prevent material damage.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present
and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
See <u>4. First-Aid Measures</u> for specific treatment.
Store locked up in corrosive resistant container.
Dispose of contents/container to an approved disposal facility.
Harmful if swallowed.
ć

# 3. Composition / Information on Ingredients

**Chemical characterization:** Hydrochloric acid solution, blended with detergents, germicides and auxiliary agents. **Hazardous ingredients:** The exact percentage of composition has been withheld as a trade secret.

9.5 - 10% *Hydrochloric acid (Muriatic acid)	CAS 7647-01-0, EINECS/ELINCS 231-595-7
0.9 - 2.5% Ethanol, 2,2'-iminobis-,n-soya alkyl derivs.,	CAS 73246-96-5, EINECS/ELINCS Not Available
Other ingredients (> 1%):	
> 85% Water	CAS 7732-18-5, EINECS/ELINCS 231-791-2

# 4. First-Aid Measures

Symptoms: Causes irritation or burning sensation. Causes severe skin burns and serious eye damage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**Inhalation:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth to an unconscious person. If respiratory irritation, dizziness, or unconsciousness occurs, seek immediate medical assistance.

**Skin Contact:** Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Version: 001 Date issued: 31. 12. 2014

**Revision Date: N/A** 

Page 1 of 4

# 4. First-Aid Measures (cont.)

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration. Probable mucosal damage may contraindicate the use of gastric lavage.

Note to Physician: Treat exposed patients symptomatically.

## **5. Fire-Fighting Measures**

Suitable Extinguishing Media: Not applicable. Product is not a fire hazard.

Unsuitable Extinguishing Media: High pressure water jet.

Specific hazards in case of fire: Hydrogen chloride gas may be generated at high temperatures.

**Special Fire Fighting Precautions:** Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

## **<u>6. Accidental Release Measures</u>**

**Emergency Procedures:** Depending on the extent of release, consider the need for emergency responders with adequate personal protective equipment for clean up, need for evacuation or restriction of access to spill area.

**Personal Precautions:** Provide adequate ventilation. Do not eat, drink or smoke during clean up. If necessary, use self-contained respirator, or filtered mask. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

Environmental Precautions: Prevent spills from entering storm sewers/drains or contact with soil.

**Clean up Methods:** Small spills may be wiped up and rinsed with water. For larger spills, neutralize with sodium carbonate and absorb on fire retardant material (e.g. sand). Pick up absorbent and dispose of at an appropriate waste disposal facility.

# 7. Handling and Storage

**Precautions for Safe Handling:** Read label before use. Never use with chlorine products. Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave area. Do not return for half hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acid materials. Do not breathe mist/vapors. Wash hands, face and any skin contact thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, protective clothing, eye protection, face protection. Use product only according to label directions. If unsure about safe use, contact your supervisor immediately. Use only in a well-ventilated area.

**Conditions for Safe Storage:** Keep out of reach of children. Do not contaminate water, food or feed by storage and disposal. Store locked up in tightly closed, original, corrosive resistant container in a cool  $(10^{\circ} - 30^{\circ}C)$ , dry, well-ventilated area. **Incompatibility:** Chlorine bleach, alkali. Do not mix with anything but water.

## **8. Exposure Controls / Personal Protection**

Components with occupational exposure limits:				
Component	Reference	TWA	PEL	
Hydrochloric acid	ACGIH	2 ppm (C)		
	OSHA		5 ppm (C)	

Engineering Controls: Proper ventilation in accordance with good industrial hygiene should be provided.

#### **Personal Protective Equipment**

**Respiratory:** Respiratory protection is not necessary under normal conditions of use. If necessary to prevent exposure above occupational limits, use an approved cartridge style respirator.

**Gloves:** Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established. **Eve Protection:** Chemical resistant goggles and face protection.

Other: Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

# 9. Physical and Chemical Properties

<b><u>7.1 hysical and Ch</u></b>	ennear r roper des		
Physical State -	Liquid	Auto-ignition temperat	ure - Not applicable
Color -	Green	Flash Point -	None
Odor -	Floral, acidic	Flammability -	Not applicable
Odor Threshold -	No data available	Flammability Limits -	Not applicable
Boiling Point -	212°F	Partition coefficient -	Not applicable
<b>Decomposition temper</b>	ature - No data available	Solubility (Water) -	Complete
Freezing Point -	0°F	Vapor Density -	No data available
pH (Neat) -	< 1	Vapor Pressure -	No data available
<b>Relative Density</b> -	1.045	Viscosity -	Slightly viscous
<b>Evaporation Rate -</b>	Similar to water	% VOC -	< 0.5 (Excluding LVP material)

# **10. Stability and Reactivity**

Reactivity: No specific reactivity test data is available. Under normal conditions of storage and use, hazardous reactions are not expected. Incompatible materials: Mixing with bleach, alkali, or oxidizers may generate toxic gases. Chemical stability: This product is stable at ambient temperatures and pressures.

**Conditions to avoid:** Temperatures above 50°C or below 10°C.

Hazardous decomposition products: Hydrogen chloride

# **<u>11. Toxicological Information</u>**

Acute Toxicity: Toxicity data is not available for this mixture. Data below are estimates based on summation methods.					
Test	Results	esults Classification (A.0.4.1(c)) Basis (A.1.3.6.1)			
Oral	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)		
Dermal	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)		
Inhalation	> 20 mg/L	Not applicable	Ingredient literature (Additive formula)		
Eye Damage/Irritation	Corrosion	Category 1	Ingredient literature		
Skin Damage/Irritation Corrosion Category 1B Ingredient literature					
Summary: Skin and eye contact are most likely routes of exposure. Exposure causes skin burns and serious eye damage.					

Subchronic/Chronic Toxicity:

Test	Results	Classification	Basis			
Skin Sensitization	Not a sensitizer	Not applicable	Ingredient literature.			
Summary: Repeated or prolonged contact causes skin burns and eye damage.						

**Carcinogens** - Ingredients are not listed on the NTP Report on Carcinogens, \*IARC Monographs or by OSHA \*IARC does list "strong inorganic acid mists" as carcinogenic, but under normal conditions, no exposure to acid mists occurs. Acid solutions are not listed.

Other data - No other toxicological information is available for this mixture.

# **12. Ecological Information**

This material has not been tested for acute environmental effects.

**Persistence and degradability:** Material is not persistent. All organic components > 1% are readily biodegradable. **Bio-accumulative potential:** No evidence to suggest bio-accumulation will occur.

**Mobility:** Accidental spillage may lead to penetration of soil and groundwater. However, due to degradability, no evidence suggests this would cause adverse ecological effects. Material will lower pH of affected area.

# **13. Disposal Considerations**

RCRA Class - D002. Do not contaminate water, food or feed by disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. **Container Disposal:** Non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or if allowed by state and local authorities, burn. If burned, stay out of smoke. If container is one gallon or less, wrap empty container in plastic bag and discard in trash.

# **<u>14. Transport Information</u>**

Proper Shipping Name: UN1789 Hydrochloric acid solutionRQ - 5000 Lbs. (Hydrochloric Acid)Shipping emergency phone: 800-424-9300Hazard Label: Corrosive (When shipped as a Limited Quantity, labeling is not required.)

Transport hazard class:8Hazard Label: Corrosive (When shipped as a Limited Quantity, labeling is not required.)Packing Group:IIEmergency Guide No.: 154Marine Pollutant: No

# **15. Regulatory Information**

**Inventory status:** All components are listed on TSCA(US), EINECS/ELINCS(EU), DSL(Canada), AICS(Australia), ENCS(Japan).

**FIFRA:** This product is a U.S. EPA Registered pesticide, EPA Reg. No. 8155-6, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

# **<u>15. Regulatory Information (cont.)</u>**

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. Do not breathe vapor or fumes. Do not get in eyes, on skin or on clothing. Wear protective eyewear (safety goggles or face shield), protective clothing and rubber gloves when handling. Use with adequate ventilation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Chemical Hazards: Never use with chlorine products.** Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Clean up any spills or drips immediately. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid. **Do not use on PVD finished surfaces.** The pesticide label also includes other important information, including directions for use.

OSHA Hazard Communication Standard: This product meets the §1910.1200 definition of a "Hazardous Chemical".

Superfund Amendments and Reauthor	ization A	ct of 1986 Title III (EPCRA) Sections 3	11 and 312
Immediate (Acute) Health Hazard	Yes	Delayed (Chronic) Health Hazard	No
Fire Hazard	No	<b>Reactive Hazard</b>	No
Sudden Release of Pressure Hazard	No		

#### Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313

\*Chemicals marked with an asterisk in "**3. Composition/Information on Ingredients**" are subject to reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372.

## Pennsylvania/New Jersey/Massachusetts Right to Know

See "3. Composition/Information on Ingredients" for hazardous and top five ingredients over 1% (w/w).

**California Proposition 65:** This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

## **16. Other information**

Date issued: 31. 12. 2014

F302-001 Revision: N/A

**Disclaimer:** No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. **Prepared by:** R&D, Canberra Corporation

# Safety Data Sheet



# SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

# **DIESEL FUEL No. 2**

**Product Use:** Fuel [See Section 16 for Additional Product Numbers] 15 S Diesel Fuel 2; Alternative Low Aromatic Diesel (ALAD); CAL ULS S R6-20 B0-5 DF2; Synonyms: CAL ULS S R6-20 B0-5 DF2DY; Calco LS Diesel 2; CALCO ULS C-B0-B5 DF2; CALCO ULS C-B0-B5 DF2 DYED; CALCO ULS C-B2 DF2; CALCO ULS C-B2 DF2 DYED; CALCO ULS C-B5 DF2; CALCO ULS C-B5 DF2 DYED; Calco ULS DF2; Calco ULS Diesel 2; CALCO ULS S R6-20 DF2; CALCO ULS S R6-20 DF2 DYED; CALCO ULS S-B0-B5 DF2 DYED; Calco ULS S-B5 DF2; Calco ULS S-B5 DF2 DYED; CALCO ULS TC-B1 DF2; CALCO ULS TC-B1 DF2 DYED; CALCO ULS TC-B2 DF2; CALCO ULS TC-B2 DF2 DYED; CALCO ULS TC-B3 DF2; CALCO ULS TC-B3 DF2 DYED; CALCO ULS TC-B4 DF2; CALCO ULS TC-B4 DF2 DYED; CALCO ULS TC-B5 DF2; CALCO ULS TC-B5 DF2 DYED; CALCO ULS TX-B1 DF2; CALCO ULS TX-B1 DF2 DYED; CALCO ULS TX-B2 DF2; CALCO ULS TX-B2 DF2 DYED; CALCO ULS TX-B3 DF2; CALCO ULS TX-B3 DF2 DYED; CALCO ULS TX-B4 DF2; CALCO ULS TX-B4 DF2 DYED; CALCO ULS TX-B5 DF2; CALCO ULS TX-B5 DF2 DYED; Chevron LS Diesel 2; Chevron ULS Diesel 2; CT ULS C-B0-B5 DF2; CT ULS C-B0-B5 DF2 DYED; CT ULS C-B2 DF2; CT ULS C-B5 DF2; CT ULS S R6-20 B0-5 DF2; CT ULS S R6-20 DF2; CT ULS S R6-20 DF2 DYED; CT ULS S-B0-B5 DF2 DYED; CT ULS S-B5 DF2; CT ULS S-B5 DF2 DYED; CT ULS S-B0-B5 DF2; CT ULS SPECIAL DF2 DYED; CT ULS TC-B1 DF2; CT ULS TC-B2 DF2; CT ULS TC-B3 DF2; CT ULS TC-B4 DF2; CT ULS TC-B5 DF2; CT ULS TX-B1 DF2; CT ULS TX-B2 DF2; CT ULS TX-B3 DF2; CT ULS TX-B4 DF2; CT ULS TX-B5 DF2; Diesel Fuel Oil; Diesel Grade No. 2; Diesel No. 2-D S15; Diesel No. 2-D S500; Diesel No. 2-D S5000; Distillates, straight run; Gas Oil; HS Diesel 2; HS Heating Fuel 2; Light Diesel Oil Grade No. 2-D; LS Diesel 2; LS Heating Fuel 2; Marine Diesel; RR Diesel Fuel; Texaco Diesel; Texaco Diesel No. 2; ULS C-B0-B5 DF2; ULS C-B0-B5 DF2 DYED; ULS C-B2 DF2; ULS C-B2 DF2 DYED; ULS C-B5 DF2; ULS C-B5 DF2 DYED; ULS S R6-20 B0-5 DF2; ULS S R6-20 B0-5 DF2 DYED; ULS S R6-20 DF2; ULS S R6-20 DF2 DYED; ULS S-B0-B5 DF2 DYED; ULS S-B5 DF2; ULS S-B0-B5 DF2; ULS TC-B1 DF2; ULS TC-B1 DF2 DYED; ULS TC-B2 DF2; ULS TC-B2 DF2 DYED; ULS TC-B3 DF2; ULS TC-B3 DF2 DYED; ULS TC-B4 DF2; ULS TC-B4 DF2 DYED; ULS TC-B5 DF2; ULS TC-B5 DF2 DYED; ULS TX-B1 DF2; ULS TX-B1 DF2 DYED; ULS TX-B3 DF2; ULS TX-B3 DF2 DYED; ULS TX-B4 DF2; ULS TX-B4 DF2 DYED; ULS TX-B5 DF2; ULS TX-B5 DF2 DYED; Ultra Low Sulfur Diesel 2 **Company Identification** Chevron Products Company

6001 Bollinger Canyon Rd. San Ramon, CA 94583 United States of America

# **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

Health Emergency Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623 Product Information Product Information: (800) 582-3835 SDS Requests: lubemsds@chevron.com

SPECIAL NOTES: This SDS covers all Chevron, Texaco and Calco CARB & non-CARB Diesel No. 2 Fuels. The sulfur content is less than 0.5% (mass). Red dye is added to non-taxable fuel. (SDS 6894) SPECIAL NOTES: This SDS covers all Chevron and Calco CARB Low Sulfur Diesel No. 2 Fuels. Red dye is added to non-taxable fuel. (SDS 7098)

# SECTION 2 HAZARDS IDENTIFICATION

**CLASSIFICATION:** Flammable liquid: Category 3. Aspiration toxicant: Category 1. Carcinogen: Category 1B. Skin irritation: Category 2. Target organ toxicant (repeated exposure): Category 2. Target organ toxicant (central nervous system): Category 3. Acute inhalation toxicant: Category 4. Acute aquatic toxicant: Category 2. Chronic aquatic toxicant: Category 2.



Signal Word: Danger

Physical Hazards: Flammable liquid and vapor.

**Health Hazards:** May be fatal if swallowed and enters airways. May cause cancer. Causes skin irritation. Harmful if inhaled. May cause drowsiness or dizziness.

**Target Organs:** May cause damage to organs (Blood/Blood Forming Organs, Liver, Thymus) through prolonged or repeated exposure.

Environmental Hazards: Toxic to aquatic life with long lasting effects.

# PRECAUTIONARY STATEMENTS:

General: Keep out of reach of children. Read label before use.

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. -- No smoking.

Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Wash thoroughly after handling. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. IF SWALLOWED: Immediately call a poison center or doctor/physician. Do NOT induce vomiting. Call a poison center or doctor/physician if you feel unwell. In case of fire: Use media specified in the SDS to extinguish. Specific treatment (see Notes to Physician on this label). Collect spillage.

**Storage:** Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up. **Disposal:** Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

# HAZARDS NOT OTHERWISE CLASSIFIED: Not Applicable

# SECTION 3 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Diesel Fuel No. 2	68476-34-6	95 - 100 %vol/vol
Renewable Diesel	Mixture	0 - 20 %vol/vol
Fatty Acid Methyl Esters (FAME)	Mixture	0 - 5 %vol/vol
Naphthalene	91-20-3	0.02 - 0.2 %vol/vol
Total sulfur	Mixture	0 - 5000 ppm (weight)

# SECTION 4 FIRST AID MEASURES

## Description of first aid measures

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** Wash skin with water immediately and remove contaminated clothing and shoes. Get medical attention if any symptoms develop. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

# Most important symptoms and effects, both acute and delayed IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin causes irritation. Symptoms may include pain, itching, discoloration, swelling, and blistering. Contact with the skin is not expected to cause an allergic skin response.

**Ingestion:** Highly toxic; may be fatal if swallowed. Because of its low viscosity, this material can directly enter the lungs, if swallowed, or if subsequently vomited. Once in the lungs it is very difficult to remove and can cause severe injury or death. May be irritating to mouth, throat, and stomach. Symptoms may include pain, nausea, vomiting, and diarrhea.

**Inhalation:** The vapor or fumes from this material may cause respiratory irritation. Mists of this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Excessive or prolonged breathing of this material may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

# DELAYED OR OTHER HEALTH EFFECTS:

**Cancer:** Whole diesel engine exhaust has been classified as a Group 2A carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Prolonged or repeated exposure to this material may cause cancer. Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

**Target Organs:** Contains material that may cause damage to the following organ(s) following repeated inhalation at concentrations above the recommended exposure limit based on animal data:Liver Blood/Blood Forming Organs Thymus Risk depends on duration and level of exposure. See Section 11 for additional information.

# Indication of any immediate medical attention and special treatment needed

**Note to Physicians:** Ingestion of this product or subsequent vomiting may result in aspiration of light hydrocarbon liquid, which may cause pneumonitis.

# SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Unusual Fire Hazards: See Section 7 for proper handling and storage.

# **PROTECTION OF FIRE FIGHTERS:**

**Fire Fighting Instructions:** For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

**Combustion Products:** Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

# SECTION 6 ACCIDENTAL RELEASE MEASURES

**Protective Measures:** Eliminate all sources of ignition in the vicinity of the spill or released vapor. If this material is released into the work area, evacuate the area immediately. Monitor area with combustible gas indicator.

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. All equipment used when handling the product must be grounded. A vapor suppressing foam may be used to reduce vapors. Use clean non-sparking tools to collect absorbed material. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. **Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

# SECTION 7 HANDLING AND STORAGE

**General Handling Information:** Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.

**Precautionary Measures:** Liquid evaporates and forms vapor (fumes) which can catch fire and burn with explosive force. Invisible vapor spreads easily and can be set on fire by many sources such as pilot lights, welding equipment, and electrical motors and switches.

Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Do not breathe vapor or fumes. Do not breathe mist. Wash thoroughly after handling. Keep out of the reach of children.

**Unusual Handling Hazards:** WARNING! Do not use as portable heater or appliance fuel. Toxic fumes may accumulate and cause death. Slow heat generation may occur with oil-soaked rags, spent filter aids and spent absorbent material and may cause spontaneous combustion if stored near combustibles and not handled properly. Store biodiesel soaked rags, filter aids, and spill absorbent material in approved safety disposal containers and dispose of properly. Biodiesel soaked rags may be washed with soap and water and allowed to dry in well ventilated area.

**Static Hazard:** Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating and accumulating an electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

**General Storage Information:** DO NOT USE OR STORE near heat, sparks, flames, or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container closed when not in use.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

# **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

# ENGINEERING CONTROLS:

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

# PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** Wear protective clothing to prevent skin contact. Selection of protective clothing may include gloves, apron, boots, and complete facial protection depending on operations conducted. Suggested materials for protective gloves include: Chlorinated Polyethylene (or Chlorosulfonated Polyethylene), Nitrile Rubber, Polyurethane, Viton.

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors.

When used as a fuel, this material can produce carbon monoxide in the exhaust. Determine if airborne concentrations are below the occupational exposure limit for carbon monoxide. If not, wear an approved positive-pressure air-supplying respirator.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

## **Occupational Exposure Limits:**

Component	Agency	TWA	STEL	Ceiling	Notation
Total sulfur	Not Applicable				
Diesel Fuel No. 2	ACGIH	100 mg/m3			Skin A3 total hydrocarbon
Diesel Fuel No. 2	CVX	100 mg/m3			Skin total hydrocarbon

Renewable Diesel	Not Applicable			 
Fatty Acid Methyl Esters (FAME)	Not Applicable			 
Naphthalene	ACGIH	10 ppm (weight)	15 ppm	 Skin A3
Naphthalene	OSHA Z-1	50 mg/m3		 

Consult local authorities for appropriate values.

# SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Varies depending on specification Physical State: Liquid Odor: Petroleum odor Odor Threshold: No data available pH: Not Applicable Vapor Pressure: 0.04 kPa (Approximate) @ 40 °C (104 °F) Vapor Density (Air = 1): >1 **Initial Boiling Point:** 175.6°C (348.1°F) - 370°C (698°F) **Solubility:** Soluble in hydrocarbons; insoluble in water Freezing Point: Not Applicable Melting Point: Not Applicable Specific Gravity: 0.80 - 0.88 @ 15.6°C (60.1°F) (Typical) **Density:** No data available Viscosity: 1.90 cSt - 4.10 cSt @ 40°C (104°F) Coefficient of Therm. Expansion / °F: No data available Evaporation Rate: No data available Decomposition temperature: No data available Octanol/Water Partition Coefficient: No data available

## FLAMMABLE PROPERTIES:

Flammability (solid, gas): No Data Available

Flashpoint: (Pensky-Martens Closed Cup) 52 °C (125 °F) Minimum Autoignition: 257 °C (494 °F) Flammability (Explosive) Limits (% by volume in air): Lower: 0.6 Upper: 4.7

# SECTION 10 STABILITY AND REACTIVITY

**Reactivity:** May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to Avoid: Avoid contact with heat, sparks, fire and oxidizing agents Incompatibility With Other Materials: Not applicable Hazardous Decomposition Products: None known (None expected) Hazardous Polymerization: Hazardous polymerization will not occur.

# SECTION 11 TOXICOLOGICAL INFORMATION

## Information on toxicological effects

Serious Eye Damage/Irritation: The eye irritation hazard is based on evaluation of data for similar materials.

Skin Corrosion/Irritation: The skin irritation hazard is based on evaluation of data for similar materials.

Skin Sensitization: The skin sensitization hazard is based on evaluation of data for similar materials.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials.

Acute Toxicity Estimate (inhalation): 1.2 mg/l

Germ Cell Mutagenicity: The hazard evaluation is based on data for components or a similar material.

**Carcinogenicity:** The hazard evaluation is based on data for components or a similar material. Whole diesel engine exhaust has been classified as a Group 2A carcinogen (probably carcinogenic to humans) by the International Agency for Research on Cancer (IARC). Contains naphthalene, which has been classified as a Group 2B carcinogen (possibly carcinogenic to humans) by the International Agency for Research on Cancer (IARC).

Reproductive Toxicity: The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Single Exposure:** The hazard evaluation is based on data for components or a similar material.

**Specific Target Organ Toxicity - Repeated Exposure:** The hazard evaluation is based on data for components or a similar material.

# ADDITIONAL TOXICOLOGY INFORMATION:

This product contains gas oils.

CONCAWE (product dossier 95/107) has summarized current health, safety and environmental data available for a number of gas oils, typically hydrodesulfurized middle distillates, CAS 64742-80-9, straight-run middle distillates, CAS 64741-44-2, and/or light cat-cracked distillate CAS 64741-59-9. CARCINOGENICITY: All materials tested have caused the development of skin tumors in mice, but all

featured severe skin irritation and sometimes a long latency period before tumors developed. Straight-run and cracked gas oil samples were studied to determine the influence of dermal irritation on the carcinogenic activity of middle distillates. At non-irritant doses the straight-run gas oil was not carcinogenic, but at irritant doses, weak activity was demonstrated. Cracked gas oils, when diluted with mineral oil, demonstrated carcinogenic activity irrespective of the occurrence of skin irritation. Gas oils were tested on male mice to study tumor initiating/promoting activity. The results demonstrated that while a straight-run gas oil sample was neither an initiator or promotor, a blend of straight-run and FCC stock was both a tumor initiator and a promoter.

GENOTOXICITY: Hydrotreated & hydrodesulfurized gas oils range in activity from inactive to weakly positive in in-vitro bacterial mutagenicity assays. Mouse lymphoma assays on straight-run gas oils without subsequent hydrodesulphurization gave positive results in the presence of S9 metabolic activation. In-vivo bone marrow cytogenetics and sister chromatic exchange assay exhibited no activity for straight-run components with or without hydrodesulphurization. Thermally or catalytically cracked gas oils tested with in-vitro bacterial mutagenicity assays in the presence of S9 metabolic activation were shown to be mutagenic. In-vitro sister chromatic exchange assays on cracked gas oil gave equivocal results both with and without S9 metabolic activation. In-vivo bone marrow cytogenetics assay was inactive for two cracked gas oil samples. Three hydrocracked gas oils were tested with in-vitro bacterial mutagenicity assays with S9, and one of the three gave positive results. Twelve distillate fuel samples were tested with in-vitro bacterial mutagenicity assays & with S9 metabolic activation and showed negative to weakly positive results. In one series, activity was shown to be related to the PCA content of samples tested. Two in-vivo studies were also conducted. A mouse dominant lethal assay was negative for a sample of diesel fuel. In the other study, 9 samples of No 2 heating oil containing 50% cracked stocks caused a slight increase in the number of chromosomal aberrations in bone marrow cytogenetics assays. DEVELOPMENTAL TOXICITY: Diesel fuel vapor did not cause fetotoxic or teratogenic effects when pregnant rats were exposed on days 6-15 of pregnancy. Gas oils were applied to the skin of pregnant rats daily on days 0-19 of gestation. All but one (coker light gas oil) caused fetotoxicity (increased resorptions, reduced litter weight, reduced litter size) at dose levels that were also maternally toxic.

The National Institute of Occupational Safety and Health (NIOSH) has recommended that whole diesel exhaust be regarded as potentially causing cancer. This recommendation was based on test results showing increased lung cancer in laboratory animals exposed to whole diesel exhaust.

## This product contains naphthalene.

GENERAL TOXICITY: Exposure to naphthalene has been reported to cause methemoglobinemia and/or hemolytic anemia, especially in humans deficient in the enzyme glucose-6-phosphate dehydrogenase. Laboratory animals given repeated oral doses of naphthalene have developed cataracts. REPRODUCTIVE TOXICITY AND BIRTH DEFECTS: Naphthalene did not cause birth defects when administered orally to rabbits, rats, and mice during pregnancy, but slightly reduced litter size in mice at dose levels that were lethal to the pregnant females. Naphthalene has been reported to cross the human placenta. GENETIC TOXICITY: Naphthalene caused chromosome aberrations and sister chromatid exchanges in Chinese hamster ovary cells, but was not a mutagen in several other in-vitro tests.CARCINOGENICITY: In a study conducted by the National Toxicology Program (NTP), mice exposed to 10 or 30 ppm of naphthalene by inhalation daily for two years had chronic inflammation of the nose and lungs and increased incidences of metaplasia in those tissues. The incidence of benign lung tumors (alveolar/bronchiolar adenomas) was significantly increased in the high-dose female group but not in the

male groups. In another two-year inhalation study conducted by NTP, exposure of rats to 10, 30, and 60 ppm naphthalene caused increases in the incidences of a variety of nonneoplastic lesions in the nose. Increases in nasal tumors were seen in both sexes, including olfactory neuroblastomas in females at 60 ppm and adenomas of the respiratory epithelium in males at all exposure levels. The relevance of these effects to humans has not been established. No carcinogenic effect was reported in a 2-year feeding study in rats receiving naphthalene at 41 mg/kg/day.

# SECTION 12 ECOLOGICAL INFORMATION

# ECOTOXICITY

A series of studies on the acute toxicity of 4 diesel fuel samples were conducted by one laboratory using water accommodated fractions. The range of effective (EC50) or lethal concentrations (LC50) expressed as loading rates were: This material is expected to be toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

72 hour(s) EC50: 2.6-25 mg/l (Selenastrum capricornutum) 96 hour(s) LC50: 21-210 mg/l (Salmo gairdneri) 48 hour(s) EC50: 20-210 mg/l (Daphnia magna)

# MOBILITY

No data available.

# PERSISTENCE AND DEGRADABILITY

This material is not expected to be readily biodegradable. On release to the environment the lighter components of diesel fuel will generally evaporate but depending on local environmental conditions (temperature, wind, mixing or wave action, soil type, etc.) the remainder may become dispersed in the water column or absorbed to soil or sediment. Diesel fuel would not be expected to be readily biodegradable. In a modified Strum test (OECD method 301B) approximately 40% biodegradation was recorded over 28 days. However, it has been shown that most hydrocarbon components of diesel fuel are degraded in soil in the presence of oxygen. Under anaerobic conditions, such as in anoxic sediments, rates of biodegradation are negligible.

The product has not been tested. The statement has been derived from products of a similar structure and composition.

# POTENTIAL TO BIOACCUMULATE

Bioconcentration Factor: No data available. Octanol/Water Partition Coefficient: No data available

# SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by international, country, or local laws and regulations.

# SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

**DOT Shipping Description:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C but </= 60 deg C: UN1202, GAS OIL, 3, III; OPTIONAL DISCLOSURE: UN1202, GAS OIL, 3, III, MARINE POLLUTANT (DIESEL FUEL) Optional disclosure per 49 CFR when Flash Point (PM Closed Cup) >/= 38 deg C < 93 deg C per 49 173.150 (f): UN1202, GAS OIL, COMBUSTIBLE LIQUID, III; NON-BULK PACKAGES ARE EXEMPTED FROM THE PROVISIONS OF 49 CFR IN USA JURISDICTIONS Optional disclosure as a GHS Environmental Hazard/Marine Pollutant when Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

**IMO/IMDG Shipping Description:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C, </= 60 deg C: UN1202, GAS OIL, 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL); OPTIONAL DISCLOSURE: UN1268, PETROLEUM DISTILLATES, N.O.S. (DIESEL FUEL), 3, III, FLASH POINT SEE SECTION 5 OR 9, MARINE POLLUTANT (DIESEL FUEL) For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

**ICAO/IATA Shipping Description:** For packages with an Initial Boiling Point > 35 deg C and a Flash Point (PM Closed Cup) >/= 23 deg C, </= 60 deg C: UN1202, GAS OIL, 3, III For packages with a Flash Point (PM Closed Cup) > 60 deg C: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIESEL FUEL), 9, III, MARINE POLLUTANT (DIESEL FUEL)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

SECTION 15 REGULATORY INFO	ORMAT	ION	
EPCRA 311/312 CATEGORIES:	1.	Immediate (Acute) Health Effects:	YES
	2.	Delayed (Chronic) Health Effects:	YES
	3.	Fire Hazard:	YES
	4.	Sudden Release of Pressure Hazard:	NO
	5.	Reactivity Hazard:	NO

# REGULATORY LISTS SEARCHED:

01-1=IARC Group 1

03=EPCRA 313

01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
	07=PA RTK

The following components of this material are found on the regulatory lists indicated.Diesel Fuel No. 207Naphthalene01-2B, 02, 04, 06

# CERCLA REPORTABLE QUANTITIES(RQ)/EPCRA 302 THRESHOLD PLANNING QUANTITIES(TPQ):

Component	Component RQ	Component TPQ	Product RQ
Naphthalene	100 lbs	None	40000 lbs

# CHEMICAL INVENTORIES:

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TCSI (Taiwan), TSCA (United States).

# NEW JERSEY RTK CLASSIFICATION:

Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows: DIESEL FUEL

# SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 1 Flammability: 2 Reactivity: 0

**HMIS RATINGS:** Health: 2\* Flammability: 2 Reactivity: 0 (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

Additional Product Number(s): 203408, 203410, 203413, 203417, 203431, 203436, 203437, 203441, 203443, 203447, 203449, 203450, 203477990, 203480990, 203481990, 203482990, 203483990, 203484990, 203485990, 203486990, 203487990, 203488990, 20348990, 220122, 225114, 225115, 225150, 266176, 270000, 270005, 270030, 270031, 270032, 270033, 270034, 270040, 270041, 270042, 270043, 270044, 270045, 270046, 270047, 270048, 270049, 270050, 270051, 270052, 270053, 270054, 270058, 270059, 270060, 270062, 270063, 270064, 270065, 270068, 270069, 270070, 270081, 270082, 270083, 270083, 270084, 270094, 270095, 270096, 270096, 270100, 270101, 270102, 270103, 270104, 270105, 270106, 270107, 270108, 270109, 270110, 270111,

270112, 270113, 270114, 270115, 270116, 270117, 270118, 270119, 270120, 270121, 270122, 270123, 270124, 271006, 272006, 272007, 272008, 272009, 272010, 272011, 272012, 272013, 272093, 272102, 272126, 272129, 272130, 272131, 272152, 272185, 272190, 272195, 272593, 272601, 272602, 272693, 272793, 273003, 273030, 273053, 275000

# **REVISION STATEMENT:**

SECTION 15 - Regulatory Information information was modified. SECTION 16 - Product Code(s) information was modified.

Revision Date: February 23, 2017

# ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental	IMO/IMDG - International Maritime Dangerous Goods
Industrial Hygienists	Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
HMIS - Hazardous Materials Information System DOT - Department of Transportation (USA)	NFPA         -         National Fire Protection Association (USA)           NTP         -         National Toxicology Program (USA)
,	
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
DOT       -       Department of Transportation (USA)         IARC       -       International Agency for Research on	NTP - National Toxicology Program (USA)

Prepared according to the 29 CFR 1910.1200 (2012) by Chevron Energy Technology Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



Revision Date 09-Dec-2015

# SAFETY DATA SHEET

Version 1

<b>1. IDENTIFICATION</b>
--------------------------

<u>Product identifier</u> Product Name	FAST ORANGE DRY SKIN PUMICE LOTION HAND CLEANER 1 GAL
Other means of identification	
Product Code	27218
Synonyms	None
Recommended use of the chemical	and restrictions on use
Recommended Use	Hand Cleaner or Soap - Heavy Duty
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Manufacturer Address	Distributor
ITW Permatex	ITW Permatex Canada
6875 Parkland Blvd.	35 Brownridge Road, Unit 1
Solon, OH 44139 USA	Halton Hills, ON Canada L7G 0C6
	Telephone: (800) 924-6994
Company Phone Number	1-87-Permatex
	(877) 376-2839
24 Hour Emergency Phone Number	
	International Emergency:
	00+1+ 813-248-0585
	Contract Number: MIS0003453
E-mail address	mail@permatex.com

# 2. HAZARDS IDENTIFICATION

## **Classification**

**OSHA Regulatory Status** 

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

#### Label elements

**Emergency Overview** 

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance White

Physical state Lotion

Odor Citrus

#### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

- May cause sensitization especially in sensitive humans

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### substance(s)

Chemical Name	CAS No	Weight-%	Trade Secret
WATER	7732-18-5	60 - 100	*
PUMICE	1332-09-8	5 - 10	*
D-LIMONENE	5989-27-5	0.5-2.0	*
****			

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

## Description of first aid measures

General advice	Get medical advice/attention if you feel unwell.		
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.		
Skin contact	None under normal use conditions.		
Inhalation	None under normal use conditions.		
Ingestion	IF SWALLOWED:. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.		
Self-protection of the first aider	Avoid contact with eyes.		
Most important symptoms and effects, both acute and delayed			
Symptoms	See section 2 for more information.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media Carbon dioxide (CO2), Dry chemical, Foam

#### Unsuitable extinguishing media None.

# Specific hazards arising from the chemical None in particular.

#### Explosion data

Sensitivity to Mechanical Impact	None.
Sensitivity to Static Discharge	None.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protective equipment and emergency procedures		
Personal precautions	Avoid contact with eyes.	
Environmental precautions		
Environmental precautions	Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological Information.	
Methods and material for containm	ent and cleaning up	
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
	7. HANDLING AND STORAGE	
Precautions for safe handling		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.	
Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep from freezing.	
Incompatible materials	Strong oxidizing agents	
8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Control parameters		
Appropriate engineering controls		
Engineering Controls	Eyewash stations	
Individual protection measures, such as personal protective equipment		
Eve/face protection	None under normal use conditions	

- **Eye/face protection** None under normal use conditions.
- Skin and body protection None under normal use conditions.
- **Respiratory protection** None under normal use conditions.
- General Hygiene Considerations Avoid contact with eyes.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Odor Odor threshold

<u>Property</u> pH

Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties** 

#### **Other Information**

Softening point Molecular weight VOC Content (%) Density Bulk density

**10. STABILITY AND REACTIVITY** 

Reactivity No data available

<u>Chemical stability</u> Stable under recommended storage conditions

## Possibility of Hazardous Reactions

None under normal processing.

<u>Conditions to avoid</u> Keep from freezing.

Incompatible materials Strong oxidizing agents

Hazardous Decomposition Products Carbon oxides

# **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

Lotion White Citrus No information available

#### Values 6.0-8.5

No information available 100 °C / 212 °F > 95 °C / > 203 °F No information available No information available

No information available No information available No information available No information available 1.06 Soluble in water No information available No information available

No information available No information available <1% No information available No information available Remarks • Method

# 27218 - FAST ORANGE DRY SKIN PUMICE LOTION HAND CLEANER 1 GAL

Inhalation	None under normal use conditions.
Eye contact	Contact with eyes may cause irritation. May cause redness and tearing of the eyes.
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
WATER	> 90 mL/kg (Rat)	-	-
7732-18-5			
D-LIMONENE	= 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
5989-27-5	· ·		

#### Information on toxicological effects

Symptoms

No information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
D-LIMONENE	-	Group 2A	-	Х
5989-27-5				

# **12. ECOLOGICAL INFORMATION**

## Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
D-LIMONENE	-	35: 96 h Oncorhynchus mykiss	-
5989-27-5		mg/L LC50 0.619 - 0.796: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	

# Persistence and degradability

No information available.

#### **Bioaccumulation**

No information available.

#### Mobility

No information available.

## Other adverse effects

No information available

# **13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	
Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	Not applicable

Chemical Name		California Hazardous Waste Status		
D-LIMONENE 5989-27-5		Toxic		
	14. TRANSPORT	INFORMATION		
DOT Proper shipping name:	Not regulated			
IATA_ Proper shipping name:	Not regulated			

#### IMDG

Proper shipping name:

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not Listed.
ENCS	Not Listed.
IECSC	Complies
KECL	Not Listed.
PICCS	Complies
AICS	Complies

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 Australian Inventory of Chemical Substances

Not regulated

# **US Federal Regulations**

# SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

# <u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

# California Proposition 65

This product does not contain any Proposition 65 chemicals

# U.S. State Right-to-Know Regulations

# U.S. EPA Label Information EPA Pesticide Registration Number Not applicable

#### WHMIS Hazard Class

Non-controlled

NFPA	Health hazards 1	Flammability 1	Instability 0	-
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association) HMIS (Hazardous Material Information System)

Revision Date 09-Dec-2015

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

Fox Valley Systems, Inc 640 Industrial Dr. Cary, Il 60013 Phone: Fax: Prepared: 847-639-5744 847-639-8190 21-Jul-2009

#### SECTION I: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Easy Marker Black
SYNONYMS:	Power Paint Cartridge Black, Marking Paint Black
PRODUCT CODES:	ETBK2D
MANUFACTURER:	Fox Valley Systems, Inc
ADDRESS:	640 Industrial Dr, Cary, IL 60013
INFORMATION PHONE:	1-847-639-5744
INFOTRAC PHONE:	1-800-535-5053, 1-352-323-3500 (IF OUTSIDE U.S.A)
FAX PHONE:	1-847-639-8190
PRODUCT USE:	Ground Marking
PREPARED BY:	Fox Valley Systems, Inc

#### SECTION II: COMPOSITION/INFORMATION ON INGREDIENTS

			ACGIH® TLVs®	OSHA PELS	NIOSH RELS	
Ingredient	CAS No.	% by Wt.	TWA mg/m³	TWA mg/m³	TWA mg/m³	EC No.
Acetone	67-64-1	10-20%	1188	1000	590	200-662-2
Butane	106-97-8	5-15%	1000	N/E	1900	203-448-7
2-Butoxyethanol	111-76-2	1-5%	97	240	24	203-905-0
Carbon Black	1333-86-4	1-5%	3.5	3.5	3.5	215-609-9
Ethylbenzene	100-41-4	1-5%	434	435	435	202-849-4
Propane	74-98-6	10-20%	1000	1800	1800	200-827-9
Stoddard Solvent	8052-41-3	1-5%	525	2900	350	232-489-3
Toluene	108-88-3	5-15%	75	750	190	203-625-9
VM&P Naptha	8032-32-4	5-10%	N/E	N/E	350	232-453-7
Xylene	1330-20-7	1-5%	434	435	435	215-535-7

#### SECTION III: HAZARDS IDENTIFICATION

- EMERGENCY OVERVIEW: Contents under pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Harmful if swallowed
- ROUTES OF ENTRY: INHALATION of vapor or spray mist EYE OR SKIN contact with the product vapor or spray mist.

#### POTENTIAL HEALTH EFFECTS

- EYES: Irritation
- SKIN: Prolonged or repeated exposure may cause irritation
- INGESTION: Swallowing may cause abdominal spasms and other symptoms that parallel overexposure from inhalation. Aspiration of material into the lungs can cause chemical pneumonitis, which may be fatal.
- INHALATION: Inhalation may cause irritation of the upper respiratory tract. Symptoms of overexposure may include fatigue, confusion, headache, dizziness and drowsiness. Peculiar skin sensations (e. g. pins and needles) or numbness may be produced. Very high concentrations may cause unconsciousness and death.

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## SECTION III: HAZARDS IDENTIFICATION, CON'T

#### CHRONIC HEALTH HAZARDS

Overexposure to Toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans due to chronic overexposure, have included liver and cardiac abnormalities.

Overexposure to Xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen eye and blood damage as well as reproductive disorders. Effects in humans due to chronic overexposure, have included liver, cardiac abnormalities and nervous system disorders.

Overexposure to Ethylbenzene may cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confsion and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to Ethylbenzene with permanent brain and nervous system damage.

#### CARCINOGENICITY

IARC: Ethylbenzene is listed as a possible human carcinogen (2B) based on laboratory animal studies.

# SECTION VI: FIRST AID MEASURES

- EYES: Hold eyes open and flush with large amounts of water for 15 minutes. Get medical attention.
- SKIN: Wash affected area with soap and water. Get medical attention if irritation or rash develops. Remove contaminated clothing and launder before re-use.
- INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.
- INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. CALL A PHYSICIAN IMMEDIATELY.

SECTION V: FIRE-FIGHTING MEASURES	
FLASH POINT:	-156° F
UPPER EXPLOSIVE LIMIT: LOWER EXPOLOSIVE LIMIT	9.8% 1.8%
EXTINGUISHING MEDIA:	Dry Chemical, Carbon Dioxide, Water Fog or Spray
SPECIAL FIRE FIGHTING PROCEDURES:	Full protective equipment including self-contained breathing apparatus should be used.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	Perforation of pressurized containers may cause bursting of the containers. Closed containers may explode when exposed to extreme heat. Flash point is less than -20° F. Extremely flammable liquid and vapor.

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# SECTION VI: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Steps should be taken in case material is released or spilled. Remove all sources of ignition. Ventilate the area. Remove with inert absorbent.

#### SECTION VII: HANDLING AND STORAGE

HANDLING AND STORAGE: Use only in a well ventilated area. Avoid breathing mist or vapor. Do not smoke. Extinguish all flames, pilot lights and heaters. Turn off stoves electric tools and appliances and any other sources of ignition.

Do not store above 120°F. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure.

#### SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Prevent build-up of vapors by opening all doors and windows to achieve cross ventilation.

- VENTILATION : A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation*, A *Manual of Recommended Practices*, most recent edition, for details.
- RESPIRATORY PROTECTION: If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygendeficient atmospheres.
- EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.
- SKIN PROTECTION: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EXPOSURE GUIDELINES: See section II

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# SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Liquid
ODOR:	Solvent Like
PHYSICAL STATE:	Liquid
pH AS SUPPLIED:	Not Available
BOILING POINT:	<0 - 325°F
MELTING POINT:	Not Available
FREEZING POINT:	Not Available
VAPOR DENSITY (AIR = 1):	Heavier than air
EVAPORATION RATE:	Faster than Ether
SOLUBILITY IN WATER:	Not Available
VOLATILE ORGANIC COMPOUNDS(VOC):	<66% by Weight

#### SECTION X: STABILITY AND REACTIVITY

STABILITY:	Stable under normal storage conditions.
CONDITIONS TO AVOID (STABILITY):	Avoid temperature above 120°F. Avoid possible sources of ignition.
INCOMPATIBILITY (MATERIAL TO AVOID):	None Known
HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:	When heated to decomposition, it emits acrid smoke and irritating fumes. By fire, Carbon Monoxide and Carbon Dioxide.
HAZARDOUS POLYMERIZATION:	Will not occur under normal conditions.

# SECTION XI: TOXICOLOGICAL INFORMATION

Ingredient	CAS No.	LD50	Animal,Route	LC50	Exposure	Animal,Route
Acetone	67-64-1					
Butane	106-97-8					
2-Butoxyethanol	111-76-2					
Carbon Black	1333-86-4					
Ethylbenzene	100-41-4	3500 mg/kg	Oral, Rat			
Propane	74-98-6					
Stoddard Solvent	8052-41-3					
Toluene	108-88-3	636 mg/kg	Oral, Rat	4000 ppm	4 hr	Rat
VM&P Naptha	8032-32-4					
Xylene	1330-20-7	4300mg/kg	Oral, Rat	5000 ppm	4 hr	Rat

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#### SECTION XII: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: No data available

#### SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Waste from this product may be hazardous as defined under the Resouce Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State and Local Regulations.

#### SECTION XIV: TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D UN1950, AEROSOLS, 2.1, LIMITED QUANTIITY, (ERG #126)

#### Canada (TDG)

May be classed as Consumer Commodity, ORM-D UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTIITY, (ERG #126)

International Maritime Organization (IMO)

May be shipped as Limited Quantity UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTIITY, EMS: F-D, S-U Marine Polutant: NO

SECTION 14 NOTES: Proper Shipping Name: Aerosols, Flammable, Consumer Commodity, ORM-D

Fox Valley Systems, Inc 640 Industrial Dr. Cary, Il 60013

## SECTION XV: REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT):	All chemicals in this product are listed, or are exempt from listing on the TSCA Inventory.
	Tibering on the Iben Inventory.

311/312 HAZARD	CATEGORIES:	ACUTE:	Yes
		CHRONIC	C: Yes
		FIRE:	Yes

#### 313 REPORTABLE INGREDIENTS:

Ingredient	CAS No.	EC No.	% by Wt.
Ethylbenzene	100-41-4	202-849-4	1-5%
Toluene	108-88-3	203-625-9	5-15%
Xylene	1330-20-7	215-535-7	1-5%

#### STATE REGULATIONS

California: This product contains a chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

#### FOREIGN REGULATIONS

Canada: WHMIS; Class A, B-5 --Flammable Aerosols--

#### SECTION XVI: OTHER INFORMATION

HMIS:	
Health Hazard:	2
Fire Hazard:	4
Physical Hazard:	0

PREPARATION INFORMATION: MSDS Revision Date: MSDS Author:

21 July 2009 Regulatory Department

This data sheet is not part of any contract of sale. The information contained herein is believed to be correct or is obtained form sources believed to be generally reliable. However, it is the responsibility of the user of these materials to investigate, understand and comply with the law and with procedures applicable to the safe handling and use of these materials. Fox Valley Systems, Inc. shall not be liable for any loss or damage directly or indirectly arising from the use of the product, and Fox Valley Systems, Inc. assumes no obligation or liability for reliance on the information contained herein, or omission here from.

DISCLAIMER: This information should be included in all MSDSs that are copied and distributed for these products.





# **Safety Data Sheet**

# Supply Co. - NATURAL ORANGE PUMICE HAND CLEANER

Document Nbr: 082667 Class C Parts IDs 21300,21302,21303,21305,21348,21369

SAFETY DATA SHEET

GOJO(R\*)

GOJO(R\*) NATURAL\* ORANGE(TM) PUMICE HAND CLEANER

VERSION: 1.0

REVISION DATE: 03/02/2015

MSDS NUMBER: 68057-00001

DATE OF LAST ISSUE:

DATE OF FIRST ISSUE: 03/02/2015

-----SECTION 1. IDENTIFICATION -----

PRODUCT NAME: GOJO(R\*) NATURAL\* ORANGE(TM) PUMICE HAND CLEANER

MANUFACTURER OR SUPPLIER'S DETAILS:

COMPANY NAME OF SUPPLIER: GOJO INDUSTRIES, INC.

ADDRESS: ONE GOJO PLAZA, SUITE 500 AKRON OH 44311

TELEPHONE: 1 (330) 255-6000

EMERGENCY TELEPHONE: 1-800-424-9300 CHEMTREC

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: SKIN-CARE

RESTRICTIONS ON USE: THIS IS A PERSONAL CARE OR COSMETIC PRODUCT THAT IS SAFE FOR CONSUMERS AND OTHER USERS UNDER NORMAL AND REASONABLY FORESEEABLE USE. COSMETICS AND CONSUMER PRODUCTS, SPECIFICALLY DEFINED BY REGULATIONS AROUND THE WORLD, ARE EXEMPT FROM THE REQUIREMENT OF AN SDS FOR THE CONSUMER. WHILE THIS MATERIAL IS NOT CONSIDERED HAZARDOUS, THIS SDS CONTAINS VALUABLE INFORMATION CRITICAL TO THE SAFE HANDLING AND PROPER USE OF THE PRODUCT FOR INDUSTRIAL WORKPLACE CONDITIONS AS WELL AS UNUSUAL AND UNINTENDED EXPOSURES SUCH AS LARGE SPILLS. THIS SDS SHOULD BE RETAINED AND AVAILABLE FOR EMPLOYEES AND OTHER USERS OF THIS PRODUCT. FOR SPECIFIC INTENDED-USE GUIDANCE, PLEASE REFER TO THE INFORMATION PROVIDED ON THE PACKAGE OR INSTRUCTION SHEET.

-----SECTION 2. HAZARDS IDENTIFICATION -----

GHS CLASSIFICATION: EYE IRRITATION: CATEGORY 2A

GHS LABEL ELEMENT:

HAZARD PICTOGRAMS: EXCLAMATION MARK

SIGNAL WORD: WARNING

HAZARD STATEMENTS: H319: CAUSES SERIOUS EYE IRRITATION.

PRECAUTIONARY STATEMENTS:

PREVENTION: P264: WASH SKIN THOROUGHLY AFTER HANDLING. P280: WEAR EYE PROTECTION/FACE PROTECTION.

**RESPONSE:** 

P305 + P351 + P338:

IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P337 + P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

OTHER HAZARDS: NONE KNOWN.

-----SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS -----

SUBSTANCE / MIXTURE: MIXTURE

HAZARDOUS INGREDIENTS:

CHEMICAL NAME

CAS-NO. CONCENTRATION (%)

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE 5989-27-5 >= 5 - <10 ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED 68551-13-3 >= 1 - <5 -----SECTION 4. FIRST AID MEASURES ------GENERAL ADVICE: IN THE CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY. WHEN SYMPTOMS PERSIST OR IN ALL CASES OF DOUBT SEEK MEDICAL ADVICE. IF INHALED: IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. IN CASE OF SKIN CONTACT: WASH WITH WATER AND SOAP AS A PRECAUTION. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. IN CASE OF EYE CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF EASY TO DO, REMOVE CONTACT LENS, IF WORN. GET MEDICAL ATTENTION. IF SWALLOWED: IF SWALLOWED, DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. RINSE MOUTH THOROUGHLY WITH WATER. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED: CAUSES SERIOUS EYE IRRITATION. PROTECTION OF FIRST-AIDERS: FIRST AID RESPONDERS SHOULD PAY ATTENTION TO SELF-PROTECTION, AND USE THE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT WHEN THE POTENTIAL FOR EXPOSURE EXISTS. NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. -----SECTION 5. FIRE-FIGHTING MEASURES -----SUITABLE EXTINGUISHING MEDIA: WATER SPRAY ALCOHOL-RESISTANT FOAM DRY CHEMICAL CARBON DIOXIDE (CO2)

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS DURING FIRE FIGHTING: EXPOSURE TO COMBUSTION PRODUCTS MAY BE A HAZARD TO HEALTH.

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES

SPECIFIC EXTINGUISHING METHODS:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

USE WATER SPRAY TO COOL UNOPENED CONTAINERS.

REMOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT IS SAFE TO DO SO.

EVACUATE AREA.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: IN THE EVENT OF FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS. USE PERSONAL PROTECTIVE EQUIPMENT.

-----SECTION 6. ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: USE PERSONAL PROTECTIVE EQUIPMENT. FOLLOW SAFE HANDLING ADVICE AND PERSONAL PROTECTIVE EQUIPMENT RECOMMENDATIONS.

ENVIRONMENTAL PRECAUTIONS:

DISCHARGE INTO THE ENVIRONMENT MUST BE AVOIDED.

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

PREVENT SPREADING OVER A WIDE AREA (E.G. BY CONTAINMENT OR OIL BARRIERS).

RETAIN AND DISPOSE OF CONTAMINATED WASH WATER.

LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

SOAK UP WITH INERT ABSORBENT MATERIAL.

FOR LARGE SPILLS, PROVIDE DIKING OR OTHER APPROPRIATE CONTAINMENT TO KEEP MATERIAL FROM SPREADING. IF DIKED MATERIAL CAN BE PUMPED, STORE RECOVERED MATERIAL IN APPROPRIATE CONTAINER.

CLEAN UP REMAINING MATERIALS FROM SPILL WITH SUITABLE ABSORBENT.

LOCAL OR NATIONAL REGULATIONS MAY APPLY TO RELEASES AND DISPOSAL OF THIS MATERIAL, AS WELL AS THOSE MATERIALS AND ITEMS EMPLOYED IN THE CLEANUP OF

RELEASES. YOU WILL NEED TO DETERMINE WHICH REGULATIONS ARE APPLICABLE.

SECTIONS 13 AND 15 OF THIS SDS PROVIDE INFORMATION REGARDING CERTAIN LOCAL OR NATIONAL REQUIREMENTS.

-----SECTION 7. HANDLING AND STORAGE -----

TECHNICAL MEASURES: SEE ENGINEERING MEASURES UNDER EXPOSURE CONTROLS/PERSONAL PROTECTION SECTION.

LOCAL/TOTAL VENTILATION: USE ONLY WITH ADEQUATE VENTILATION.

ADVICE ON SAFE HANDLING: AVOID INHALATION OF VAPOR OR MIST. DO NOT SWALLOW. DO NOT GET IN EYES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. TAKE CARE TO PREVENT SPILLS, WASTE AND MINIMIZE RELEASE TO THE ENVIRONMENT.

CONDITIONS FOR SAFE STORAGE: KEEP IN PROPERLY LABELED CONTAINERS. STORE IN ACCORDANCE WITH THE PARTICULAR NATIONAL REGULATIONS.

MATERIALS TO AVOID: DO NOT STORE WITH THE FOLLOWING PRODUCT TYPES: STRONG OXIDIZING AGENTS

-----SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION -----

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS: CONTAINS NO SUBSTANCES WITH OCCUPATIONAL EXPOSURE LIMIT VALUES.

HAZARDOUS COMPONENTS WITHOUT WORKPLACE CONTROL PARAMETERS:

INGREDIENTS CAS-NO. 1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE 5989-27-5 ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED 68551-13-3

ENGINEERING MEASURES:

ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS.

MINIMIZE WORKPLACE EXPOSURE CONCENTRATIONS.

DUST FORMATION MAY BE RELEVANT IN THE PROCESSING OF THIS PRODUCT. IN ADDITION TO SUBSTANCE-SPECIFIC OELS, GENERAL LIMITATIONS OF CONCENTRATIONS OF PARTICULATES IN THE AIR AT WORKPLACES HAVE TO BE CONSIDERED IN WORKPLACE RISK ASSESSMENT. RELEVANT LIMITS INCLUDE: OSHA PEL FOR PARTICULATES NOT OTHERWISE REGULATED OF 15 MG/M3 - TOTAL DUST, 5 MG/M3 - RESPIRABLE FRACTION; AND ACGIH TWA FOR PARTICLES (INSOLUBLE OR POORLY SOLUBLE) NOT OTHERWISE SPECIFIED OF 3 MG/M3 - RESPIRABLE PARTICLES, 10 MG/M3 - INHALABLE PARTICLES.

PERSONAL PROTECTIVE EQUIPMENT:

#### **RESPIRATORY PROTECTION:**

GENERAL AND LOCAL EXHAUST VENTILATION IS RECOMMENDED TO MAINTAIN VAPOR EXPOSURES BELOW RECOMMENDED LIMITS. WHERE CONCENTRATIONS ARE ABOVE RECOMMENDED LIMITS OR ARE UNKNOWN, APPROPRIATE RESPIRATORY PROTECTION SHOULD BE WORN. FOLLOW OSHA RESPIRATOR REGULATIONS (29 CFR 1910.134) AND USE NIOSH/MSHA APPROVED RESPIRATORS. PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS AGAINST EXPOSURE TO ANY HAZARDOUS CHEMICAL IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE UNKNOWN, OR ANY OTHER CIRCUMSTANCE WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

HAND PROTECTION:

MATERIAL: IMPERVIOUS GLOVES

#### REMARKS:

CHOOSE GLOVES TO PROTECT HANDS AGAINST CHEMICALS DEPENDING ON THE CONCENTRATION SPECIFIC TO PLACE OF WORK. BREAKTHROUGH TIME IS NOT DETERMINED FOR THE PRODUCT. CHANGE GLOVES OFTEN! FOR SPECIAL APPLICATIONS, WE RECOMMEND CLARIFYING THE RESISTANCE TO CHEMICALS OF THE AFOREMENTIONED PROTECTIVE GLOVES WITH THE GLOVE MANUFACTURER. WASH HANDS BEFORE BREAKS AND AT THE END OF WORKDAY.

EYE PROTECTION: WEAR THE FOLLOWING PERSONAL PROTECTIVE EQUIPMENT: SAFETY GOGGLES

SKIN AND BODY PROTECTION:

SELECT APPROPRIATE PROTECTIVE CLOTHING BASED ON CHEMICAL RESISTANCE DATA AND AN ASSESSMENT OF THE LOCAL EXPOSURE POTENTIAL.

SKIN CONTACT MUST BE AVOIDED BY USING IMPERVIOUS PROTECTIVE CLOTHING (GLOVES, APRONS, BOOTS, ETC).

HYGIENE MEASURES:

ENSURE THAT EYE FLUSHING SYSTEMS AND SAFETY SHOWERS ARE LOCATED CLOSE TO THE WORKING PLACE.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONTAMINATED CLOTHING BEFORE RE-USE.

-----SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE: LIQUID

COLOR: GRAY, OPAQUE ODOR: CITRUS ODOR THRESHOLD: NO DATA AVAILABLE PH: 5.0 - 8.0 MELTING POINT/FREEZING POINT: NO DATA AVAILABLE INITIAL BOILING POINT AND BOILING RANGE: 95 DEG. C FLASH POINT: >100 DEG. C EVAPORATION RATE: NO DATA AVAILABLE FLAMMABILITY (SOLID, GAS): NOT APPLICABLE UPPER EXPLOSION LIMIT: NO DATA AVAILABLE LOWER EXPLOSION LIMIT: NO DATA AVAILABLE VAPOR PRESSURE: NO DATA AVAILABLE RELATIVE VAPOR DENSITY: NO DATA AVAILABLE DENSITY: 1.0390 G/CM3 SOLUBILITY(IES): WATER SOLUBILITY: SOLUBLE PARTITION COEFFICIENT N-OCTANOL/WATER: NOT APPLICABLE AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE DECOMPOSITION TEMPERATURE: THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED SELF-REACTIVE. VISCOSITY: VISCOSITY, KINEMATIC: 10,000 - 50,000 MM2/S (20 DEG. C) EXPLOSIVE PROPERTIES: NOT EXPLOSIVE OXIDIZING PROPERTIES: THE SUBSTANCE OR MIXTURE IS NOT CLASSIFIED AS OXIDIZING. -----SECTION 10. STABILITY AND REACTIVITY -----REACTIVITY: NOT CLASSIFIED AS A REACTIVITY HAZARD. CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS. POSSIBILITY OF HAZARDOUS REACTIONS: CAN REACT WITH STRONG OXIDIZING AGENTS.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE MATERIALS: OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS: NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

-----SECTION 11. TOXICOLOGICAL INFORMATION -----

INFORMATION ON LIKELY ROUTES OF EXPOSURE: INHALATION SKIN CONTACT INGESTION EYE CONTACT

ACUTE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

**INGREDIENTS:** 

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

ACUTE ORAL TOXICITY: LD50 (RAT): >2,000 MG/KG ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE ORAL TOXICITY REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

ACUTE ORAL TOXICITY: LD50 (RAT): >5,000 MG/KG REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE INHALATION TOXICITY: LC50 (RAT): >1.6 MG/L EXPOSURE TIME: 4 H TEST ATMOSPHERE: DUST/MIST ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE INHALATION TOXICITY REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ACUTE DERMAL TOXICITY: LD50 (RAT): >2,000 MG/KG ASSESSMENT: THE SUBSTANCE OR MIXTURE HAS NO ACUTE DERMAL TOXICITY REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

SKIN CORROSION/IRRITATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT: RESULT: NO SKIN IRRITATION

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

SPECIES: RABBIT RESULT: SKIN IRRITATION

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: SPECIES: RABBIT METHOD: OECD TEST GUIDELINE 404 RESULT: NO SKIN IRRITATION REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

SERIOUS EYE DAMAGE/EYE IRRITATION: CAUSES SERIOUS EYE IRRITATION.

**INGREDIENTS:** 

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: SPECIES: RABBIT RESULT: NO EYE IRRITATION

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: RESULT: IRREVERSIBLE EFFECTS ON THE EYE REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

RESPIRATORY OR SKIN SENSITIZATION SKIN SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION. RESPIRATORY SENSITIZATION: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

PRODUCT: ASSESSMENT: DOES NOT CAUSE SKIN SENSITIZATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: TEST TYPE: LOCAL LYMPH NODE ASSAY (LLNA) ROUTES OF EXPOSURE: SKIN CONTACT SPECIES: MOUSE RESULT: POSITIVE

ASSESSMENT: PROBABILITY OR EVIDENCE OF SKIN SENSITIZATION IN HUMANS

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: TEST TYPE: MAXIMIZATION TEST (GPMT) ROUTES OF EXPOSURE: SKIN CONTACT SPECIES: GUINEA PIG METHOD: OECD TEST GUIDELINE 406 RESULT: NEGATIVE REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

GERM CELL MUTAGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE:

GENOTOXICITY IN VITRO:

TEST TYPE: IN VITRO MAMMALIAN CELL GENE MUTATION TEST RESULT: NEGATIVE

GENOTOXICITY IN VIVO: TEST TYPE: TRANSGENIC RODENT SOMATIC CELL GENE MUTATION AS-SAY SPECIES: RAT APPLICATION ROUTE: INGESTION RESULT: NEGATIVE

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

GENOTOXICITY IN VITRO: TEST TYPE: BACTERIAL REVERSE MUTATION ASSAY (AMES) RESULT: NEGATIVE REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

GENOTOXICITY IN VIVO:

TEST TYPE: MUTAGENICITY (IN VIVO MAMMALIAN BONE-MARROW CYTOGENETIC TEST, CHROMOSOMAL ANALYSIS)

SPECIES: RAT

APPLICATION ROUTE: INGESTION

**RESULT: NEGATIVE** 

REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

CARCINOGENICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

**INGREDIENTS:** 

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: SPECIES: MOUSE APPLICATION ROUTE: INGESTION EXPOSURE TIME: 103 WEEKS RESULT: NEGATIVE

IARC: NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS PROBABLE, POSSIBLE OR CONFIRMED HUMAN CARCINOGEN BY IARC.

OSHA:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

NTP:

NO INGREDIENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

REPRODUCTIVE TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

**INGREDIENTS:** 

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED:

EFFECTS ON FERTILITY: TEST TYPE: TWO-GENERATION REPRODUCTION TOXICITY STUDY SPECIES: RAT APPLICATION ROUTE: SKIN CONTACT RESULT: NEGATIVE REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

EFFECTS ON FETAL DEVELOPMENT: TEST TYPE: TWO-GENERATION REPRODUCTION TOXICITY STUDY SPECIES: RAT APPLICATION ROUTE: SKIN CONTACT RESULT: NEGATIVE REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

STOT-SINGLE EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

STOT-REPEATED EXPOSURE: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

REPEATED DOSE TOXICITY:

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: SPECIES: RAT NOAEL: 600 MG/KG APPLICATION ROUTE: INGESTION EXPOSURE TIME: 13 W

ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: SPECIES: RAT NOAEL: 500 MG/KG APPLICATION ROUTE: INGESTION EXPOSURE TIME: 90 D REMARKS: BASED ON DATA FROM SIMILAR MATERIALS

ASPIRATION TOXICITY: NOT CLASSIFIED BASED ON AVAILABLE INFORMATION.

INGREDIENTS:

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: THE SUBSTANCE OR MIXTURE IS KNOWN TO CAUSE HUMAN ASPIRATION TOXICITY HAZARDS OR HAS TO BE REGARDED AS IF IT CAUSES A HUMAN ASPIRATION TOXICITY HAZARD.

-----SECTION 12. ECOLOGICAL INFORMATION -----

ECOTOXICITY:

**INGREDIENTS:** 1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: TOXICITY TO FISH: LC50 (PIMEPHALES PROMELAS (FATHEAD MINNOW)): 0.72 MG/L EXPOSURE TIME: 96 H TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: EC50 (DAPHNIA MAGNA (WATER FLEA)): 0.36 MG/L EXPOSURE TIME: 48 H TOXICITY TO ALGAE: ERC50 (DESMODESMUS SUBSPICATUS (GREEN ALGAE)): 150 MG/L EXPOSURE TIME: 72 H TEST SUBSTANCE: WATER ACCOMMODATED FRACTION REMARKS: BASED ON DATA FROM SIMILAR MATERIALS M-FACTOR (ACUTE AQUATIC TOXICITY): 1 ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: TOXICITY TO FISH: LC50 (SCOPHTHALMUS MAXIMUS (TURBOT)): 3.1 MG/L EXPOSURE TIME: 96 H REMARKS: BASED ON DATA FROM SIMILAR MATERIALS TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: EC50 (DAPHNIA MAGNA (WATER FLEA)): 0.14 MG/L EXPOSURE TIME: 48 H REMARKS: BASED ON DATA FROM SIMILAR MATERIALS TOXICITY TO ALGAE: EC50 (PSEUDOKIRCHNERIELLA SUBCAPITATA (GREEN ALGAE)): 0.75 MG/L EXPOSURE TIME: 72 H REMARKS: BASED ON DATA FROM SIMILAR MATERIALS M-FACTOR (ACUTE AQUATIC TOXICITY): 1 TOXICITY TO BACTERIA: EC50 (PSEUDOMONAS PUTIDA): >10,000 MG/L EXPOSURE TIME: 16.9 H REMARKS: BASED ON DATA FROM SIMILAR MATERIALS PERSISTENCE AND DEGRADABILITY: **INGREDIENTS:** 1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: **BIODEGRADABILITY:** RESULT: READILY BIODEGRADABLE.

**BIODEGRADATION: 80%** 

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EXPOSURE TIME: 28 D REMARKS: BASED ON DATA FROM SIMILAR MATERIALS ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED: **BIODEGRADABILITY:** RESULT: READILY BIODEGRADABLE. BIODEGRADATION: 80 - 88% EXPOSURE TIME: 28 D REMARKS: BASED ON DATA FROM SIMILAR MATERIALS **BIOACCUMULATIVE POTENTIAL:** INGREDIENTS: 1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE: PARTITION COEFFICIENT N-OCTANOL/WATER: LOG POW: 4.38 MOBILITY IN SOIL: NO DATA AVAILABLE OTHER ADVERSE EFFECTS: NO DATA AVAILABLE -----SECTION 13. DISPOSAL CONSIDERATIONS -----**DISPOSAL METHODS:** WASTE FROM RESIDUES: DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS. CONTAMINATED PACKAGING: DISPOSE OF AS UNUSED PRODUCT. EMPTY CONTAINERS SHOULD BE TAKEN TO AN APPROVED WASTE HANDLING SITE FOR RECYCLING OR DISPOSAL. -----SECTION 14. TRANSPORT INFORMATION -----INTERNATIONAL REGULATION: UNRTDG:

UN NUMBER: UN 3082

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9

PACKING GROUP: III LABELS: 9 IATA-DGR: UN/ID NO.: UN 3082 PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE) CLASS: 9 PACKING GROUP: III LABELS: MISCELLANEOUS PACKING INSTRUCTION (CARGO AIRCRAFT): 964 PACKING INSTRUCTION (PASSENGER AIRCRAFT): 964 IMDG-CODE: UN NUMBER: UN 3082 PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE) CLASS: 9 PACKING GROUP: III LABELS: 9 EMS CODE: F-A, S-F MARINE POLLUTANT: YES TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE: NOT APPLICABLE FOR PRODUCT AS SUPPLIED. DOMESTIC REGULATION: 49 CFR: UN/ID/NA NUMBER: UN 3082 PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE)

CLASS: 9

PACKING GROUP: III

LABELS: CLASS 9

ERG CODE: 171

MARINE POLLUTANT: YES (1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE)

**REMARKS:** 

SHIPMENT BY GROUND UNDER DOT IS NON-REGULATED; HOWEVER IT MAY BE SHIPPED PER THE APPLICABLE HAZARD CLASSIFICATION TO FACILITATE MULTI-MODAL TRANSPORT INVOLVING ICAO (IATA) OR IMO.

-----SECTION 15. REGULATORY INFORMATION -----

EPCRA - EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW:

CERCLA REPORTABLE QUANTITY: THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A CERCLA RQ.

SARA 304 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY: THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 304 EHS RQ.

SARA 311/312 HAZARDS: ACUTE HEALTH HAZARD

SARA 302: NO CHEMICALS IN THIS MATERIAL ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III, SECTION 302.

SARA 313: THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DE MINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313.

US STATE REGULATIONS:

PENNSYLVANIA RIGHT TO KNOW:

 WATER
 7732-18-5
 70 - 90%

 PUMICE
 1332-09-8
 5 - 10%

 1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE
 5989-27-5
 5 - 10%

 NEW JERSEY RIGHT TO KNOW:
 5989-27-5
 5 - 10%

 WATER
 7732-18-5
 70 - 90%

 PUMICE
 1332-09-8
 5 - 10%

1-METHYL 4-(1-METHYLETHENYL) CYCLOHEXENE 5989-27-5 5 - 10% ALCOHOLS, C12-15, ETHOXYLATED PROPOXYLATED 68551-13-3 1 - 5% CALIFORNIA PROP 65: THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH, OR ANY OTHER REPRODUCTIVE DEFECTS. THE INGREDIENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES: REACH: ALL INGREDIENTS (PRE-)REGISTERED OR EXEMPT. TSCA: ALL CHEMICAL SUBSTANCES IN THIS PRODUCT ARE EITHER LISTED ON THE TSCA INVENTORY OR ARE IN COMPLIANCE WITH A TSCA INVENTORY EXEMPTION. DSL: ALL CHEMICAL SUBSTANCES IN THIS PRODUCT COMPLY WITH THE CEPA 1999 AND NSNR AND ARE ON OR EXEMPT FROM LISTING ON THE CANADIAN DOMESTIC SUBSTANCES LIST (DSL). AICS: ALL INGREDIENTS LISTED OR EXEMPT. INVENTORIES: AICS (AUSTRALIA), DSL (CANADA), IECSC (CHINA), REACH (EUROPEAN UNION), ENCS (JAPAN), ISHL (JAPAN), KECI (KOREA), NZIOC (NEW ZEALAND), PICCS (PHILIPPINES), TCSI (TAIWAN), TSCA (USA) -----SECTION 16. OTHER INFORMATION -----FURTHER INFORMATION: NFPA: 2 HEALTH 1 FLAMMABILITY INSTABILITY 0 SPECIAL HAZARD. HMIS III: HEALTH 2 FLAMMABILITY 1 PHYSICAL HAZARD 0 0 = NOT SIGNIFICANT1 = SLIGHT2 = MODERATE3 = HIGH4 = EXTREME\* = CHRONIC SOURCES OF KEY DATA USED TO COMPILE THE MATERIAL SAFETY DATA SHEET:

INTERNAL TECHNICAL DATA, DATA FROM RAW MATERIAL SDSS, OECD ECHEM PORTAL SEARCH RESULTS AND EUROPEAN CHEMICALS AGENCY, HTTP://ECHA.EUROPA.EU/

# REVISION DATE: 03/02/2015

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND SHALL NOT BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION OF ANY TYPE. THE INFORMATION PROVIDED RELATES ONLY TO THE SPECIFIC MATERIAL IDENTIFIED AT THE TOP OF THIS SDS AND MAY NOT BE VALID WHEN THE SDS MATERIAL IS USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT. MATERIAL USERS SHOULD REVIEW THE INFORMATION AND RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THEIR INTENDED MANNER OF HANDLING, USE, PROCESSING AND STORAGE, INCLUDING AN ASSESSMENT OF THE APPROPRIATENESS OF THE SDS MATERIAL IN THE USER'S END PRODUCT, IF APPLICABLE.

US / Z8

Safety Data Sheet According to OSHA HCS 2012 (29 CFR 1910.1200), Health Canada HPR (SOR/2015-17), and Mexico NOM-018-STPS-2015



<b>SECTION 1: Identification</b>							
Product Identifier	Guardol ECT® Diesel Er	Guardol ECT® Diesel Engine Oil With Liquid Titanium®					
Other means of identification	Phillips 66 Guardol ECT® Diesel Engine Oil With Liquid Titanium® SAE 10W-30 (CK-4) Phillips 66 Guardol ECT® Diesel Engine Oil With Liquid Titanium® SAE 15W-40 (CK-4)						
Code	LBPH814641						
Relevant identified uses	Heavy Duty Diesel Engine Oil						
Uses advised against	All others						
24 Hour Emergency Phone Number							
	CHEMTREC México 01-800-681-9	9531					
Manufacturer/Supplier	SDS Information	Customer Service					
Phillips 66 Lubricants	Phone: 800-762-0942	U.S.: 800-368-7128 or International: 1-832-765-2500					
P.O. Box 4428	Email: SDS@P66.com	Technical Information					
Houston, TX 77210	URL: www.Phillips66.com	1-877-445-9198					

# SECTION 2: Hazard identification

# **Classified Hazards**

No classified hazards

Hazards Not Otherwise Classified (HNOC)

PHNOC: None known

HHNOC: None known

# Label Elements

No classified hazards

# **SECTION 3: Composition/information on ingredients**

Chemical Name	CASRN	Concentration <sup>1</sup>
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	<85

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# **SECTION 4: First aid measures**

**Eye Contact:** If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin Contact:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.

**Inhalation:** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

**Ingestion:** First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed:** Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Prolonged or repeated contact may dry skin and cause irritation

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

# SECTION 5: Firefighting measures

#### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal) 1 (Slight) 2 (Moderate) 3 (Serious) 4 (Severe)

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

**Special protective actions for fire-fighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

## See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

# SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

# **SECTION 7: Handling and storage**

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. Used motor oils have been shown to cause skin cancer in mice after repeated application to the skin without washing. Brief or intermittent skin contact with used motor oil is not expected to cause harm if the oil is thoroughly removed by washing with soap and water. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

**Conditions for safe storage:** Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

# SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH	OSHA	Mexico	Phillips 66
Distillates, petroleum,	TWA: 5mg/m <sup>3</sup>			
hydrotreated heavy	STEL: 10 mg/m <sup>3</sup>			
paraffinic	as Oil Mist, if Generated			

# Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

# **SECTION 9: Physical and chemical properties**

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Page 4/6 Status: FINAL

Odor: Petroleum	Initial Boiling
Odor Threshold: No data	Vapor Pressu
pH: Not applicable	Partition Coe
Vapor Density (air=1): >1	Melting/Freez
Upper Explosive Limits (vol % in air): No data	Auto-ignition
Lower Explosive Limits (vol % in air): No data	Decomposition
Evaporation Rate (nBuAc=1): No data	Specific Grav
Particle Size: Not applicable	Bulk Density
Percent Volatile: Negligible	Viscosity: 12
Flammability (solid, gas): Not applicable	Pour Point:
Solubility in Water: Negligible	

nitial Boiling Point/Range: No data /apor Pressure: <1 mm Hg Partition Coefficient (n-octanol/water) (Kow): No data /lelting/Freezing Point: No data Auto-ignition Temperature: No data Decomposition Temperature: No data Specific Gravity (water=1): 0.87 - 0.88 Bulk Density: 7.26 - 7.29 lbs/gal /iscosity: 12.0 - 15.3 cSt @ 100°C; 88 - 120 cSt @ 40°C Pour Point: < -40 °F / < -40 °C

# **SECTION 10: Stability and reactivity**

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use, During use in engines, contamination of oil with low levels of hazardous fuel combustion by-products (e.g. polycyclic aromatic hydrocarbons) may occur.

# **SECTION 11: Toxicological information**

#### Information on Toxicological Effects

#### Substance / Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard

Skin Corrosion/Irritation: Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Causes mild eye irritation.

**Skin Sensitization:** No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Repeated Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

Reproductive Toxicity: No information available on the mixture, however none of the components have been classified for

reproductive toxicity (or are below the concentration threshold for classification).

# Information on Toxicological Effects of Components

#### Distillates, petroleum, hydrotreated heavy paraffinic

Carcinogenicity: This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

# SECTION 12: Ecological information

# GHS Classification:

# No classified hazards

Toxicity: All acute aquatic toxicity studies on samples of lubricant base oils show acute toxicity values greater than 100 mg/L for invertebrates, algae and fish. These tests were carried out on water accommodated fractions and the results are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

Persistence and Degradability: The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

Bioaccumulative Potential: Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

Mobility in Soil: Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of the hydrocarbon constituents in soil and sediment.

# Other adverse effects: None anticipated.

# SECTION 13: Disposal considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste. This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

# **SECTION 14: Transport information**

# U.S. Department of Transportation (DOT) **UN Number:** Not regulated UN proper shipping name: None Transport hazard class(es): None Packing Group: None Environmental Hazards: This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant Special precautions for user: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

# SECTION 15: Regulatory information

# CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CERCLA/SARA - Section 313 and 40 CFR 372

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Zinc Compound(s)	<2	1.0%

# EPA (CERCLA) Reportable Quantity (in pounds)

This material does not contain any chemicals with CERCLA Reportable Quantities.

#### **California Proposition 65**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

#### International Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements.

# **SECTION 16: Other information**

Issue Date:	Previous Issue Date:	SDS Number	Status:
31-Jul-2017	09-Nov-2016	LBPH814641	FINAL

#### **Revised Sections or Basis for Revision:**

Product Name / Synonyms (Section 1)

#### Legend (pursuant to NOM-018-STPS-2015):

The information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

#### Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; HPR = Hazardous Products Regulations; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### **Disclaimer of Expressed and implied Warranties:**

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

# HOSPECO HEALTH GARDS AIR FRESHENER VINEYARD, 70Z. Material Safety Data Shoot Quick Identifier (In Plant Common Name)

wateria	i Salety Da	ata Sheet				
Manufacturer's Name & Address	HOSPECO Cleveland, Ohio 4	4143	HMIS Symbo Health Flammability	HMIS 1 Slight	NFPA 0 Insignifica 1 Slight 2 Moderate	Toxicity 1 0 Reactivity
Telephone No.	800-321-9832		Reactivity	0 Serious Severe	3 High 4 Extreme	Special
Date Prepared:	March 21, 2013	Prepared	By: N. Bur	nell	Super	cedes: NEW
SECTION 1 - I	DENTITY					
Common Name: ( (Trade name & Sy		PECO HEALTH	GARDS AIR FF	RESHENER V	/INEYAR	D, 70Z.
Chemical Name	Mixtu	ire packaged in pre	essurized aerosol	spray can.		
SECTION 2 - H	<b>IAZARDOUS INC</b>	GREDIENTS				
Principal Hazardo	ous Component(s) C	CAS No.	OSHA PEL	ACGIH TLV	Othe	r Limits
2-Propanone	6	7-64-1	1000 ppm	500 ppm 750 ppm STE	EL	
Liquefied Petroleu		8476-86-8	Unknown	1000 ppm		
	Pr Notification - Indicates h ing and Community Right-1			als subject to the r	eporting requ	uirements of Section 313 of
	PHYSICAL & CHI			S		
Boiling Point	>100°F	Specific Gravity (H <sub>2</sub> 0=1)(Conc)	0.78 – 0.81g		or Pressure pellant)	No Data
% - VOC	20.0%	Evaporation Rat (BuAc=1)	e >1.00	рН		N/A
Solubility In Water	Insoluble	Appearance and Odor(Conc)	Water white	clear liquid with	n a charac	teristic odor
SECTION 4 - H	TRE & EXPLOSI	ON DATA				
Flammability (per flame project	ion) FLAMMABLE	Flammable Lim in Air (Propella		Upper Extin N/A Medi	iguisher a	Dry chemical, CO <sub>2</sub> , Alcohol-resistant foam
Special Fire Fighting Procedur		s cool using water	spray. Use prope	r equipment to	protect pe	rsonnel from bursting
Unusual Fire and Explosion Hazard		pressure. Do not e burst.	expose to tempera	atures exceedir	ng 120° F	as containers may
<b>SECTION 5 - F</b>	PHYSICAL HAZA	RDS				
Stability Unstal Stability Stable	■ to Avoid	Heat, sparks open flames; Temp. > 120°F.	Hazardous Polymerization	-	t Occur ∎	
Incompatibility (M		Acids, alkalis, Red	ducing agents, St	rong oxidizing a	agents	
Hazardous Decon	aposition products (	CO and CO <sub>2</sub>				

SECTION 6 -	HEAL	<b>FH HAZAR</b>	DS							
Routes of Entry		Inhalation:	Yes	Eyes / Skin:	Yes	Ingestion	: Unlike	ly		
Signs and Symp Exposure (Acute Chronic)		Eye contact: swelling of ey may dry the s burns. Passa this would res amounts of th large amount vomiting. This vapor or mist likely to cause	res; <b>Skin co</b> kkin. Sympto ge of this m sult in harmf his material o s may be ha s can result is possible.	ntact: May comes may inclu aterial into the ul effects duri during normal armful. This m into lung infla Breathing sm	ause mile de redne body the ng safe h handling aterial ca mmation	d skin irrita ss, burning rough the s andling an is not likel in get into t and other l	tion. Prolo , drying a kin is pos d use. <b>Ing</b> y to cause he lungs o ung injury	nged or rep nd cracking sible, but it gestion: S harmful eff during swall ; Inhalatior	eated co of skin, s unlikel wallowin ects. Sw owing or : Breath	ontact and skin y that g small vallowing ning of
Medical Conditi Generally Aggra by Exposure		Pre-existing s	kin and lung	g disorders						
Chemical Listed or Potential Car		nogen Natio Prog	onal Toxicolo ram	ogy Yes □ No		R.C. ographs	Yes □ No ■	OSHA		
Emergency and	First Aid	Procedures								
		ely move to freek immediate			with wat	er for at lea	ast 15 min	utes while h	olding e	yelids
•		ely move to freek immediate			with wat	er for at lea	ast 15 min	utes while h	olding e	yelids
		contaminated attention. Laun				soap and v	water. If sy	/mptoms pe	ersist, se	ək
		dical attention. o induce vomi		physician, me	edical fac	ility, or pois	on contro	l center for	advice a	bout
SECTION 7 -		AL PROTE	CTION IN	NFORMAT	ION					
<b>Respiratory Pro</b> (Specify Type)	tection	None requir	ed for norn	nal use.						
Ventilation	Local Exhaust		adequate v	entilation.	Mecha (Gener	al) <sup>IN//</sup>	-		Other	N/A
Protective Glove		emical Resis				Eye Pro	otection	Safety G	asses	
Other Protective	e Clothing	g or Equipmen	t Wash	hands after	use.					
SECTION 8 -	- SPECI	AL PRECA	UTIONS A	AND SPILL	/LEAK	PROCE	DURES			
Precautions to b Handling and St		and dizzin dizzin be ha hand store	open flames ness. Intent armful or fat ling surface at tempera	MMABLE. C a. Excessive i tional misuse al. Avoid con s. Avoid cont tures above 1 en. Store in a	nhalation by delibe tact with act with p 20°F. Do	in confine rately conc skin and ey painted, va not punct	d areas m entrating /es. Avoid mished or ure or incir	ay cause he or inhaling t d contact wi plastic surf herate conta	eadaches he conte th food a aces. De iners. Ke	s or nts may nd food o not
<b>Other Precautio</b>	ns	Read	label cauti	ons carefully.	Follow la	bel directio	ns to avoi	d injury.		
Steps to be Take Material is Relea				inert material accordance wi			mical was	te container	. Dispos	se of
Waste Disposal	Methods			cordance with			-			
Proposition 65		This repro the p	product is n oductive toxi roposition.	Drinking Water ot known to c ns under Cali	ontain an fornia Pro	y chemical oposition 6	s currently 5 at levels	y listed as c		
<b>Transportation</b>	Info	Haza		Name: Aeroso Class 2.1(flam						

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.

1254354 / 9004354 / 9004117 132103



# Material Safety Data Sheet

OMB No. 1218-0072

## DATE PREPARED: 4/21/2011

#### **Deery Hot Applied Sealants** TRADE NAMES:

Note: This MSDS covers principle types and/or grades of DEERY hot applied sealants.

101, 101ELT, 101ELTCH, 101KS, 101MI, 101WA, 101WY/SD, 102, 102GL,102GLCA, 102GL-18B, 102P, 102PL, 103, 103-25, 103-25103GL, 103GLCA, 103GLCH, 103GLWY, 103WA, 103GLSTLC, 103P, 115, 115AR, 115UT, 180, 180CA, 180-OP, 180NE, 200, 200CA, 200MC, 220, 220CA, 6690-III, 974, 974D, 974+, 3723, 3723CH, 5078-22, 5078-GA-M, 5078COA, 5078C 5078SD, 5078TXA, 5078TXB, Type 3 Asphalt, PLS, PRO-PL, PLF 210, Modified AC & Fiber, AC-20, Asphalt & Fiber, Cold Joint Adhesive, Loop[ Sealant LW, Loop Sealant P650, PLS, SAMA, SUPER STRETCH, Pro PL, Sunflex, Membrane #6, Super Gray, and other Sealants and Adhesives.

Hot Applied Sealants and Adhesives IDENTITY: MIXTURE CHEMICAL FORMULA AND CAS NUMBER:

#### EMERGENCY TELEPHONE NUMBERS:

Information Telephone: Normal Business Hours (7:30 AM-4:30 PM) 1-800-227-4059 or 1-602-276-0406 ERGON 24 Hour Emergency Phone Number 1-800-222-7122 Manufacturer: Crafco Inc, 420 North Roosevelt Avenue, Chandler, Az. 852226 Call CHEMTREC day or night: Domestic North America 800-424-9300 International 703-527-3887 (collect calls accepted)



SECTION II – INGREDIENTS - IDENTITY INFORMATION					
INGREDIENT NAME	CAS NUMBER	WEIGHT %			
Petroleum Asphalt	8052-42-4	0 – 100%			
Mineral Filler	1317-65-3	0 – 70%			
Butadiene/Styrene Copolymers	9003-55-8	0 - 20%			
Polvethvlene	9002-88-4	0-5%			
Hydro-treated Heavy Napthenic Distillate	64742-52-5	0 - 30%			
Vulcanized Reclaimed Rubber Compound	N/A	0 - 30%			
Styrene/Isoprene Copolymers	25038-32-8	0 – 20%			
Resin Ester	N/A	030%			
Styrene/Ethylene/Butadiene Copolymers	66070-58-4	0 - 12%			
Ethylene-Butadiene Copolymer	66070-58-4	0 - 10%			
Polyester Fibers	25038-59-9	0 - 8.5%			
Hydrocarbon Resin	8052-42-4	0 - 5%			

#### SECTION III – HAZARDS IDENTIFICATION

#### HMIS RATING

Health 2 Moderate Slight Fire Reactivity 0 Minimal

The primary potential hazards associated with this product are due to skin contact with hot product and inhalation of fumes from the product and fumes generated by equipment utilized to heat the product in an area without sufficient ventilation. Heating and application should be limited to outdoors.

Skin Contact; Contact with hot material will cause thermal burns. Prolonged exposure may cause dermatitis. Hot material will stick to skin.

Inhalation: Do not inhale fumes of heated material. Petroleum fumes may be emitted when heated. Fumes can be irritating to the eyes, nose, throat, skin and lungs. Fumes may cause nausea, headache, and dizziness. Prolonged exposure to fumes may cause irritation to the eyes, nose, throat, skin and lungs

Ingestion: None expected.

Eyes: Direct contact with hot material may cause burns and blindness. Exposure to fumes or mists may cause irritation.

Health Hazards: The cool solid material is not expected to cause eye or skin irritation, nor is it expected to have acute systemic toxicity by ingestion. This material is classed as having a low order of toxicity. Operation of processing and heating equipment may release fumes that will cause pulmonary irritation if performed in an area without sufficient ventilation. CONTACT WITH HOT MATERIAL WILL CAUSE BURNS

Carcinogenicity: See section XI

#### SECTION IV - FIRST AID MEASURES

EYES: If the hot material should splash into the eyes, flush eyes immediately with fresh cool water while holding the eyelids open. See a doctor.

SKIN: If hot, melted material gets on skin, IMMEDIATELY SUBMERGE area in water. Cold water is preferable. See a doctor for extensive burns. DO NOT try to peel solidified material from skin. Do not use hydrocarbon solvents, thinners or other products that may be hazardous to dissolve the solidified material. Vegetable oil, mineral oil, baby oil or other non-hazardous products are recommended for removal of this material from the skin.

INHALATION: If there are signs or symptoms as described in the MSDS due to breathing this material, move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Seek medical attention.

INGESTION: Do not induce vomiting. Seek medical attention.

# SECTION V - FIRE FIGHTING MEASURES

NFPA Hazard Rating: Health Fire Reactivity 0



Flash Point - COC - 400°F Minimum (COC) Extinguishing Media - Dry Chemical, CO2. Special Fire Fighting Procedures - Same as oil fire.

2

Auto Ignition Temperature - 700°F+ Flammability Classification - Class III B Combustible Unusual Fire & Explosion Hazard - Smoke from fire may be hazardous

Fire-Fighting instructions - Use of water or foam directly on flames may spread fire. Use a water spray to cool containers. Use air supplied breathing apparatus where heavy smoke

occurs. Do not release fire control runoff into sewers. Products of Combustion - Carbon Monoxide, Hydrogen Sulfide, Carbon Dioxide, Sulfur Dioxide and other products of combustion of hydrocarbons.

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

Spill: Eliminate sources of ignition. Stop spill. Confine spill if necessary by diiking, impoundment, or other means. Allow material to cool. Scrape or gather cooled material and prepare for disposal. Do not flush spill to sever or other waters. Ventilate area and avoid breathing fumes. Follow appropriate OSHA regulations (29 CFR 1910,120). Cooled material is in not a hazardous waste as defined by RCRA. For disposal comply with all local, federal, and state regulations regarding solid waste.

# SECTION VII - HANDLING & STORAGE

### Handling and Storage Precautions: Unheated material presents no known hazards. Eliminate sources of ignition from storage area.

SECTION VIII – EXPOSURE CONTROLS & PERSONAL PROTECTION								
Ventilation Requirements: Melting of product and melting equipment operations must be limited to open, outside areas to result in maximum exposure limits or threshold limit values. Product application should be limited to open, outside areas. For operations where fume exposure can occur or is thought to occur, a MSHA/NIOSH approved respirator may be necessary. Seek professional advice for a recommendation as to type of respirator that may be necessary. Eye/Face Protection: For operations where eye or face contact with hot material may occur, eye protection such as safety goggles or a face shield is recommended. Skin Protection: When heating and/or applying hot material, wear equipment that will offer protection against thermal burns and contact with hot product such as protective gloves, long sleeve shirts, and hard-soled shoes. Do not wear rubber or composite shoes, gloves, or any other article of clothing that may melt or otherwise be affected by heat. Hygiene: Wash hands before eating or smoking.								
SECTI	SECTION IX – PHYSICAL & CHEMICAL PROPERTIES							
Appearance: Solid at room temperature. Product becomes fluid onc Boiling Point: 500°F+ Incompatible Materials: Strong oxidizing agents Hazardous Decomposition Products: See section 5 Hazardous Polymerization: Will not occur Solubility in Petroleum solvents: Soluble Volatility %: Less than 1%	te temperature is elevated beyond softening point. (Approximately 200°F) Stability: Stable Specific Gravity: 1.0-1.9 Odor: Slight petroleum at room temperature. Moderate petroleum odor at 380°F. Water Solubility: Not soluble in water Evaporation Rate: 0% Boiling Point: >800F							
SECTION X – STABILITY AND REACTIVITY								
Polymerization: Will not occur Hazardous Decomposition Products: See Section V Stability: Stable								
SECTION XI – TOXICOLOGICAL INFORMATION								
potential of asphalts. They concluded that there was insufficient evidence were carcinogenic to animals. Additionally, there was insufficient evidence did not result in any increased cancer rate; mice exposed to asphalts dilut product is not expected to produce any serious effects. While normal han reduced to a minimum. We strongly recommend that the precautions outil heated. The rotten egg odor of H2S is unreliable as an indicator of concer respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal of concentrations of 1000-2000 PPM can be <u>extremely</u> hazardous.	carcinogenic to humans. The International Agency for Research on Cancer (IARC) has recently reviewed the carcinogenic that undiluted, air-refined asphalt was carcinogenic to animals, while there was only limited evidence that steam-refined asphalts et o conclude that asphalts were carcinogenic to human beings. Studies in which mice were exposed to a variety of whole asphalts et with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt dling of this product is not likely to cause cancer in humans, skin contact and breathing of mists, fumes or vapors should be inter in humans. Some asphalt contains sulfur compounds, which may form H2S when hardling this material. Some asphalt contains sulfur compounds, which may form H2S when hardling be entirely masked by the odor of the asphalt. Signs and symptoms of overexposure to H2S include listurbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. H2S							
SECTION XII – ECOLOGICAL INFORMATION								
Soil Absorption: No Data Environmental Degradation: No data	Environmental Transport: No data Ecotoxicity: Product can foul shoreline and be toxic to aquatic life.							
	SECTION XIII - DISPOSAL							
According to Federal regulations (40 CTR 261) this product, as supplied, is not a hazardous waste when discarded or disposed of. It is the responsibility of the user to determine, at the time of disposal if the product is a hazardous waste subject to RCRA. Transportation, storage, and disposal of RCRA waste must be conducted in compliance with 40 CTR 262, 263, 264, 268, and 270.								
S	ECTION 14 - TRANSPORT INFORMATION							
Product as Packaged and Shipped (Solid): D.O.T. Shipping Labei: N/A Hazard Class: N/A Shipping Name or Designation: Not Regulated D.O.T. ID #: N/A	Melted Product: (heated above 212 °F) Placard Requirement: 'HOT' UN3257 Packing Group: PG III Hazard Class: 9 Shipping Name: Elevated Temperature Liquid N.O.S. Label: Class 9A							
SE	ECTION 15 – REGULATORY INFORMATION							
State Regulations: The following chemicals are known to be specifi New Jersey Right to Know: Petroleum fumes Minnesota Right to Know: Petroleum fumes Rhode Island Hazardous Substances List: Petroleum fumes California State Superfund Hazardous Substance Massachusetts Right to Know: Petroleum fumes, petroleum distillate California Proposition 65 Carcinogens or Reproductive Toxins List: F								
U.S. Federal Regulatory Information: RCRA Hazardous Waste Classification (40 CFR 261) this material st RCRA Hazardous Waste Number: No listing CERCLA: No listing CERCLA Reportable Quantity (RQ): This product in solid form is not States, it may be reportable under the CLEAN WATER ACT.	hould not be hazardous a hazardous substance and does not have a reportable quantity. If spilled in liquid form into the waters of the United							
SARA 311 Categories: Immediate (Acute) Health Effe Delayed (Chronic) Health Effe Fire Hazard Sudden Release of Pressure Reactivity Hazard	th Effects Yes (when product is heated) No							
Other regulations: None known								
SECTION 16 – OTHER INFORMATION								

DISCLAIMER: Crafco provides this information for the user's consideration. Crafco believes this information is accurate, but not all inclusive in all circumstances. User should ensure that user has current data relevant for its purposes. No warranty, expressed or implied , including merchantability , fitness or otherwise is given.

SECTION I - IDENTITY AND	RESPONSIBLE PARTY I	NFORMATION				1220090165	
Responsible Party:	Canberra Corporation		Product Name: HUSKY 1220 GLASS, PLASTIC & CRT CLEANER				
Address:	3610 Holland-Sylvania Rd. Toledo, Ohio 43615		Date Prepared: 9-29-08				
Emergency Telephone No.	1-419-841-6616		Prepared By Regulatory Affairs Department				
And Other Information	1-419-041-0010						
SECTION II – HAZARDOUS INGF	REDIENTS/IDENTITY INFOR	RMATION					
Hazardous Components Specific Chemical Identity: Comr	mon Nama(a)	CAS #'s	WT%	PEL	TWA-TLV		
*2-Butoxyethanol	non Name(s)	111-76-2	3-5	25 ppm	25 ppm		
Ethyl Alcohol		64-17-5	3-5	1000 ppm	1000 ppm		
Propane		74-98-6	3-5	1000 ppm	1000 ppm		
n-Butane		106-97-8	3-5	1000 ppm	1000 ppm		
*THIS CHEMICAL IS SUBJECT REAUTHORIZATION ACT OF 198		EQUIREMENTS	FOR SECTION	313 OF TITLE III OF	THE SUPERFUND AME	NDMENTS AND	
NFPA RATING - HEALTH: 1 FLA		/ITY: 0 PERS	ONAL PROTECT	ION FOPT: A	SOLUTION ONLY)		
SECTION III – PHYSICAL / CHEN							
Boiling Point: N/A				/ity (H <sub>2</sub> 0 = 1): <1.0			
Vapor Pressure : 65-75 psig at 7	0°F			ty: (Air=1): <1			
pH 9.5 -10.5				Rate (Ether=1): <1			
Solubility in Water: Appreciable SECTION IV – FIRE AND EXPLOS			Appearance	and Fragrance: Aerosol s	pray with characteristic o	dor.	
Aerosol Flammability: Non-Flam		CFR 1500 45	Flammable L	imits – LEL –	1.8 UEL -9.2		
Solution Flash Point $- <140^{\circ}F$					0110 011 011		
Extinguishing Media - CO <sub>2</sub> /Foan							
Special Fire Fighting Procedures			to prevent press	sure build-up.			
Unusual Fire and Explosion Haza	<u>rds – Heated cans may bui</u>	rst					
SECTION V – PHYSICAL HAZAR Stability Unstable	D2		Conditions to	o Avoid – None Known			
Stable X			Conditions to				
Incompatibility (Materials to Avo							
Hazardous Decomposition Produ	icts or By-products – Toxic	chemicals may					
Hazardous May Occur	V		Conditions to	o Avoid – None Known			
Polymerization Will not Occu SECTION VI – HEALTH HAZARDS							
Route(s) of Entry:	Inhalation? X		Skin? X	Ingestion? X	Eves	s? <b>X</b>	
Health Hazards (1. Acute and 2.			d. Eye and skin				
Chemical Listed as Carcinogen	National Toxic			I.A.R.C.	0SF		
or Potential Carcinogen	Program		) <b>X</b>	Monographs No		No X	
Signs and Symptoms of Exposur Respiratory irritation. Ingestion:							
water, seek medical attention if in							
Remove to fresh air and provide	oxygen if breathing is diffi	cult. INGESTIO				-	
SECTION VII – PRECAUTIONS F							
Steps to be Taken in Case Materi							
Waste Disposal Method – Do not Precautions to be Taken in Handl				,	0	o with adoquato	
ventilation. Store as level 1 Aero		atility vapors. I	teep out of reac	I OI CIIIIUICII. I OI USE DY	i ameu personnei oniy. Os	se with adequate	
SECTION VIII – CONTROL MEAS							
Respiratory Protection - No spe	cial requirements. Ventilat	i <b>on</b> – Provide Io	cal exhaust to ke	ep TLV of Section 2 ingre	dients below acceptable li	mits. Protective	
<b>Gloves</b> – Not normally required.				Protective Clothing or E	quipment - Not Required		
Work/Hygiene Practices – Ensu NOTICE: NO REPRESENTATIONS							
ANY OTHER NATURE, ARE MAD							
The goal of defining precisely, in							
realistically be accomplished. The		•				•	
of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good							
faith and believed to be correct a							
and information is supplied upon	•	-	-			-	
for their purposes prior to use. In	•	-	-		-		
upon, or the misuse of this inform							
is the subject matter of this Mate compound, or compliance with re	-			-	ona concerning the use of	uispusai ui liiis	
					(Not Available) N/F (N	lot Established)	

N/A (Not Applicable/Not Available) N/E (Not Established)



## CANBERRA CORPORATION SAFETY DATA SHEET

# 1. Identification Product Identifier: HUSKY 1230 DISINFECTANT DEODORANT Application or recommended use: Hard surface disinfectant Restrictions on use: Do not use in any fashion not specified on the product label. Manufacturer / supplier: Canberra Corporation 3610 N. Holland-Sylvania Rd. Toledo, Ohio 43615 USA Telephone: 419-841-6616 Emergency phone: 866-836-8855

### 2. Hazards Identification

GHS Classification:	Classification of this mixture in accordance with paragraph (d) of §1910.1200.
	Flammable Aerosols - Category 1
	Eye Damage/Irritation - Category 2A

Label Elements:

Symbol: Signal word:



None known.

DANGER

Hazard statements: Extremely flammable aerosol. Causes serious eye irritation. Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash thoroughly after handling. Wear eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. See 4. First-Aid Measures for specific treatment.

Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Dispose of contents/container to an approved disposal facility.

Other Hazards:

#### 3. Composition / Information on Ingredients

Chemical characterization: Mixture of water, emulsifiers, solvents and auxiliary agents.

Hazardous ingredients: The exact percentage of composition has been withheld as a trade secret.

40 - 60% Ethyl Alcohol	CAS 64-17-5
10 - 20% Butane	CAS 106-97-8
2 - 10% Propane	CAS 74-98-6
0.1 – 1% o-Phenylphenol	CAS 90-43-7

#### 4. First-aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops and persists.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth thoroughly.

Most important symptoms/effects, acute and delayed: Headache. Irritation of nose and throat. Severe eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

#### **5. Fire-fighting measures**

**Suitable extinguishing media:** Alcohol resistant foam. Water spray. Water fog. Dry chemical. Carbon dioxide (CO2). **Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Fire-fighting equipment/instructions:** Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up.

General fire hazards: Extremely flammable aerosol.

#### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

**Methods and materials for containment and cleaning up:** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Environmental precautions: Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

**Precautions for safe handling:** Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not handle or store near an open flame, heat or other sources of ignition. Avoid contact with eyes. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Level 2 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. This material can accumulate static charge which may cause spark and become an ignition source. Do not handle or store near an open flame, heat or other sources of ignition. Store in original tightly closed container. Store away from incompatible materials.

#### 8. Exposure controls/personal protection

Occupational exposure limits		
US. OSHA Table Z-1 Limits for	r Air Contami	inants (29 CFR 1910.1000)
Components	Туре	Value
Ethyl Alcohol (CAS 64-17-5)	PEL	1900 mg/m3 (1000 ppm)
Propane (CAS 74-98-6)	PEL	1800 mg/m3 (1000 ppm)
US. ACGIH Threshold Limit V	alues	
Components	Туре	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide to C	hemical Haza	ards
Components	Туре	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3 (800 ppm)
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m3 (1000 ppm)
Propane (CAS 74-98-6)	TWA	1800 mg/m3 (1000 ppm)
Annyonyioto onginooying contro	alar Good gang	rel ventilation should be used. Ver

**Appropriate engineering controls:** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

#### Individual protection measures, such as personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear appropriate chemical resistant gloves.

**Other:** Wear suitable protective clothing.

Respiratory protection: If permissible levels are exceeded use organic vapor cartridge or an air-supplied respirator.

**General hygiene considerations:** When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance	
Physical state: Gas.	Form: Aerosol.
Color: Not available.	Odor: Not available.
Odor threshold: Not available.	<b>pH:</b> Not available.
Melting point/freezing point: Not available.	Flash point: -156.0 °F (-104.4 °C) Propellant estimated.
Evaporation rate: Not available.	<b>Initial boiling point/boiling range:</b> 140.71 °F (60.39 °C) estimated.
Flammability: Not available.	Auto-ignition temperature: 856.4 °F (458 °C) estimated.
Upper/lower flammability or explosive limits	
Flammability limit – lower (%): 2.6 % estimated.	Flammability limit – upper (%): 12.8 % estimated.
Explosive limit - lower (%): Not available.	Explosive limit - upper (%): Not available.
Vapor pressure: 75 - 85 psig @70F estimated.	Vapor density: Not available.
Relative density: Not available.	Specific gravity: 0.79 estimated.
Solubility (water): Not available.	Viscosity: Not available.
Decomposition temperature: Not available.	
Partition coefficient (n-octanol/water): Not availab	ble.

#### **10. Stability and reactivity**

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials: Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products: No hazardous decomposition products are known.

#### **<u>11. Toxicological information</u>**

Information on likely routes of exposure:

Ingestion: Expected to be a low ingestion hazard.

Inhalation: No adverse effects due to inhalation are expected.

Skin contact: No adverse effects due to skin contact are expected.

Eye contact: Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Headache. Irritation of nose and throat.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Skin irritation. **Information on toxicological effects:** 

Acute toxicity: Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

**Respiratory sensitization:** Not available. **Skin sensitization:** This product is not expected to cause skin sensitization. **Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity:** o-Phenylphenol (CAS 90-43-7) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: Not classified.

Aspiration hazard: Not available.

Chronic effects: Prolonged or repeated contact may cause drying, cracking, or irritation.

#### **12. Ecological information**

**Ecotoxicity:** Harmful to aquatic life with long lasting effects.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: No data available.

**Partition coefficient n-octanol / water (log Kow):** Butane 2.89, Ethyl Alcohol -0.31, o-Phenylphenol 3.09, Propane 2.36 **Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### **<u>13. Disposal considerations</u>**

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Waste from residues / unused products:** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging:** Empty containers should be taken to an approved waste site for recycling or disposal. Emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information **UN number** UN1950 DOT UN proper shipping name Aerosols, flammable Class 2.1 Packing group: Not applicable. Read safety instructions, SDS and emergency procedures before handling. Packaging exceptions: This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. 15. Regulatory information **US federal regulations** FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 706-69-8155, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4): Sodium Nitrite (CAS 7632-00-0) Listed. SARA 304 Emergency release notification: Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed. Superfund Amendments and Reauthorization Act of 1986 (SARA): Hazard categories Immediate Hazard – Yes Delayed Hazard – No Fire Hazard – Yes Pressure Hazard - No Reactivity Hazard – No SARA 302 Extremely hazardous substance: No SARA 311/312 Hazardous chemical: No SARA 313 (TRI reporting) Chemical name CAS number % by wt. o-Phenylphenol 90-43-7 0.1 - 1 **Other federal regulations** Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Butane (CAS 106-97-8) Propane (CAS 74-98-6) Safe Drinking Water Act: (SDWA): Not regulated. **US state regulations US. Massachusetts RTK - Substance List** US. New Jersey Worker and Community Right-to-Know Act US. Pennsylvania Worker and Community Right-to-Know Law Butane (CAS 106-97-8) Ethyl Alcohol (CAS 64-17-5) o-Phenylphenol (CAS 90-43-7) Propane (CAS 74-98-6) US. Rhode Island RTK Butane (CAS 106-97-8) o-Phenylphenol (CAS 90-43-7) Propane (CAS 74-98-6) US. California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer. o-Phenylphenol (CAS 90-43-7) Listed: August 4, 2000 16. Other information, including date of preparation or last revision Date issued: 01. 02. 2015 HSK-1230 Revision: N/A

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



## **CANBERRA CORPORATION** SAFETY DATA SHEET

#### 1. Identification

**Product Identifier:** HUSKY 710 FLOOR CLEANER & NEUTRALIZER

Application or recommended use: Acidic tile floor cleaner/neutralizer

Restrictions on use: Do not use in any fashion not specified on the product label.

Manufacturer / supplier: Canberra Corporation

3610 N. Holland-Sylvania Rd.

Toledo, Ohio 43615 USA

**Telephone:** 419-841-6616 Emergency phone: 800-832-8992 National Poison Center: 800-222-1222

#### 2. Hazards Identification

**GHS Classification:** Classification of this mixture in accordance with paragraph (d) of §1910.1200. Skin Corrosion/Irritation - Category 2 Eye Damage/Irritation - Category 1

Label Elements:



Symbol: Signal word: DANGER Hazard statements: Causes skin irritation. Causes serious eye damage. Precautionary statements: Wash hands, face and any skin contact thoroughly after handling. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. See 4. First-Aid Measures for specific treatment. **Other Hazards:** Harmful if swallowed. **3.** Composition / Information on Ingredients

**Chemical characterization:** Glycolic acid solution, blended with detergents, organic acids and auxiliary agents.

Hazardous ingredients: The exact percentage of composition has been withheld as a trade secret.

CAS 79-14-1, EINECS/ELINCS 201-180-5 1 - 5% Glycolic Acid, 1 - 3% C<sub>12-15</sub> Fatty alcohol ethoxylate CAS 68131-39-5, EINECS/ELINCS NLP500-195-7 Other ingredients (>1%): > 84% Water

CAS 7732-18-5, EINECS/ELINCS 231-791-2

#### **4.** First-Aid Measures

Symptoms: Causes irritation or burning sensation. Causes skin irritation and serious eye damage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Inhalation: Move person to fresh air. If respiratory irritation or dizziness occurs, seek immediate medical assistance. Skin Contact: Remove contaminated clothing and wash before reuse. Wash contaminated area with soap and water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to a person who is unconscious or convulsing. If vomiting occurs, keep head below hips to reduce risk of aspiration. Probable mucosal damage may contraindicate the use of gastric lavage.

Note to Physician: Treat exposed patients symptomatically.

#### 5. Fire-Fighting Measures

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide or foam extinguishing agents. In case of fire, keep containers cooled with water spray. Unsuitable Extinguishing Media: High pressure water jet. Specific hazards in case of fire: None known.

Special Fire Fighting Precautions: Fire fighters should wear appropriate protective equipment, including self-contained breathing apparatus and impervious clothing.

#### 6. Accidental Release Measures

Emergency Procedures: Depending on the extent of release, consider the need for restriction of access to spill area. Personal Precautions: Do not eat, drink or smoke during clean up. Wear protective clothing, eye protection and impervious gloves (e.g. neoprene). Wash thoroughly after clean up.

Environmental Precautions: Prevent spills from entering storm sewers/drains or contact with soil.

Clean up Methods: Small spills may be wiped up and rinsed with water. For larger spills, contain spill with inert material (sand, clay). Transfer material to labeled containers for recovery or proper disposal. After removal, flush area with water. Follow good industrial hygiene practices.

#### 7. Handling and Storage

Precautions for Safe Handling: Do not use on any surface that can be damaged by acid materials. Wash hands, face and any skin contact thoroughly after handling. Wear protective gloves, eye protection, face protection. Use product only according to label directions. If unsure about safe use, contact your supervisor.

Conditions for Safe Storage: Keep out of reach of children. Do not contaminate water, food or feed by storage and disposal. Store in tightly closed, original container in a cool  $(10^{\circ} - 30^{\circ}C)$ , dry area.

Incompatibility: Alkali, oxidizers.

#### 8. Exposure Controls / Personal Protection

#### **Components with occupational exposure limits:** None

Engineering Controls: Proper ventilation in accordance with good industrial hygiene should be provided.

#### **Personal Protective Equipment**

Respiratory: Respiratory protection is not necessary under normal conditions of use.

**Gloves:** Use water impervious gloves (latex or neoprene rubber). No breakthrough time has been established.

Eye Protection: Chemical resistant goggles and face protection.

Other: Protective clothing (long sleeves, pants), eyewash, safety shower are always advisable when working with chemicals.

#### 9. Physical and Chemical Properties

Physical State -	Liquid	Auto-ignition temperat	ure - Not applicable
Color -	Green	Flash Point -	None
Odor -	Lime	Flammability -	Not applicable
Odor Threshold -	No data available	Flammability Limits -	Not applicable
<b>Boiling Point -</b>	212°F	Partition coefficient -	Not applicable
Decomposition temper	rature - No data available	Solubility (Water) -	Complete
Freezing Point -	0°F	Vapor Density -	No data available
pH (Neat) -	2.5	Vapor Pressure -	No data available
рН (RTU) -	2.5 - 3.5	Viscosity -	Water thin
Relative Density -	1.025	% VOC -	< 1 (Excluding LVP material)
<b>Evaporation Rate</b> -	Similar to water		

#### **10. Stability and Reactivity**

Reactivity: No specific reactivity test data is available. Under normal conditions of storage and use, hazardous reactions are Incompatible materials: Oxidizers, metal hydroxides. not expected.

Chemical stability: This product is stable at ambient temperatures and pressures. Conditions to avoid: Temperatures above 50°C or below 10°C.

Hazardous decomposition products: None known.

#### **11. Toxicological Information**

Acute Toxicity: Toxicity data is not available for this mixture. Data below are estimates based on summation methods.

Test	Results	Classification (A.0.4.1(c))	Basis (A.1.3.6.1)
Oral	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Dermal	> 2000mg/kg	Not applicable	Ingredient literature (Additive formula)
Inhalation	> 20  mg/L	Not applicable	Ingredient literature (Additive formula)
Eye Damage/Irritation	Corrosion	Category 1	Ingredient literature
Skin Damage/Irritation	Corrosion	Category 2	Ingredient literature
Summary: Skin and eve	contact are most li	kelv routes of exposure. Ex	posure causes skin irritation and serious eve

Summary: Skin and eye contact are most likely routes of exposure. Exposure causes skin irritation and serious eye damage.

**Revision Date:** N/A

Page 2 of 3

#### **<u>11. Toxicological Information (cont.)</u>**

Subchronic/Chroni	ic Toxicity:	
Test	Doculto	Class

Test	Results	Classification	Basis		
Skin Sensitization	Not a sensitizer	Not applicable	Ingredient literature.		
<b>Summary:</b> Repeated or prolonged contact causes skin irritation and eve damage.					

**Carcinogens** - Ingredients are not listed on the NTP Report on Carcinogens, IARC Monographs or by OSHA **Other data** - No other toxicological information is available for this mixture.

#### **12. Ecological Information**

This material has not been tested for acute environmental effects.

**Persistence and degradability:** Material is not persistent. All organic components > 1% are readily biodegradable.

**Bio-accumulative potential:** No evidence to suggest bio-accumulation will occur.

**Mobility:** Accidental spillage may lead to penetration of soil and groundwater. However, due to degradability, no evidence suggests this would cause adverse ecological effects. Material will lower pH of affected area.

#### **13. Disposal Considerations**

Do not contaminate water, food or feed by disposal. If these materials cannot be disposed of by use according to label directions, contact your State Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. Rinse container promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. If container is one gallon or less, wrap empty container in plastic bag and discard in trash.

#### **<u>14. Transport Information</u>**

<b>Proper Shipping Name:</b>	Not regulated	<b>RQ</b> - Not Applicable	
Shipping emergency pho	one: 800-424-930	0	
Transport hazard class:	Not Applicable	Hazard Label: Not Applicable	
Packing Group:	Not Applicable	Emergency Guide No.: Not Applicable	Marine Pollutant: No

#### **15. Regulatory Information**

**Inventory status:** All components are listed on TSCA(US), EINECS/ELINCS(EU), DSL(Canada), AICS(Australia), ENCS(Japan).

OSHA Hazard Communication Standard: This product meets the §1910.1200 definition of a "Hazardous Chemical".

Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Sections 311 and 312				
Immediate (Acute) Health Hazard	Yes	Delayed (Chronic) Health Hazard	No	
Fire Hazard	No	Reactive Hazard	No	
Sudden Release of Pressure Hazard	No			

Superfund Amendments and Reauthorization Act of 1986 Title III (EPCRA) Section 313

\*Chemicals marked with an asterisk in "**3. Composition/Information on Ingredients**" are subject to reporting requirements for Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372.

#### Pennsylvania/New Jersey/Massachusetts Right to Know

See "3. Composition/Information on Ingredients" for hazardous and top five ingredients over 1% (w/w).

**California Proposition 65:** This product does not contain a listed substance known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

#### **16. Other information**

**Date issued:** 31. 12. 2014

F710-001 Revision: N/A

**Disclaimer:** No representation or warranty, either expressed or implied, of merchantability, fitness for a particular **purpose, or of any other nature, is made with respect to information concerning the product referred to in this document.** The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material. **Prepared by:** R&D, Canberra Corporation

# Safety Data Sheet

According to OSHA HCS 2012 (29 CFR 1910.1200)



Product Identifier:	Hydraulic/Tractor Fluid	
Other means of identification:	76 Hydraulic/Tractor Fluid 76 Hydraulic/Tractor Fluid, Low Viscosity	
SDS Number:	721190	
Intended Use:	Tractor Hydraulic Fluid	
Uses Advised Against:	All others	
Emergency Health and Safety Number:	Chemtrec: 800-424-9300 (24 Hours)	
Manufacturer:	SDS Information:	Customer Service:
Phillips 66 Lubricants	Phone: 800-762-0942	U.S.: 1-800-822-6457 or International: +1-83-2486-336
P.O. Box 4428	Email: SDS@P66.com	Technical Information: 1-877-445-9198
Houston, TX 77210	URL: www.Phillips66.com	

#### Section 2: Hazards Identification

Section 1: Identification

#### Classified Hazards

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other Hazards None Known

No classified hazards

#### Section 3: Composition / Information on Ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	45-86
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	<37
Non-Hazardous Materials	VARIOUS	<15

Label Elements

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Section 4: First Aid Measures

**Eye Contact:** If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

**Skin Contact:** Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician. (see Note to Physician)

**Inhalation (Breathing):** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed:** Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Dry skin and possible irritation with repeated or prolonged exposure.

**Notes to Physician:** Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. When using high-pressure equipment, injection of product under the skin can occur. In this case, the casualty should be sent immediately to the hospital. Do not wait for symptoms to develop. High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. These injuries often require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury. Early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### Section 5: Fire-Fighting Measures

#### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal) 1 (Slight) 2 (Moderate) 3 (Serious) 4 (Severe)

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

**Special protective actions for firefighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

#### See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

#### Section 6: Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

#### Section 7: Handling and Storage

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

**Conditions for safe storage:** Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Keep container(s) tightly closed and properly labeled. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

#### Section 8: Exposure Controls / Personal Protection

Chemical Name	ACGIH	OSHA	Other
Distillates, petroleum, hydrotreated heavy	TWA: 5mg/m <sup>3</sup>	TWA: 5mg/m <sup>3</sup>	
paraffinic	STEL: 10 mg/m <sup>3</sup>	as Oil Mist, if Generated	
-	as Oil Mist, if Generated		
Distillates, petroleum, solvent-dewaxed heavy	TWA: 5mg/m <sup>3</sup>	TWA: 5mg/m <sup>3</sup>	
paraffinic	STEL: 10 mg/m <sup>3</sup>	as Oil Mist, if Generated	
	as Oil Mist, if Generated		

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye/face protection is not normally required; however, good industrial hygiene practice suggests the use of eye protection that meets or exceeds ANSI Z.87.1 whenever working with chemicals.

**Skin/Hand Protection:** The use of skin protection is not normally required; however, good industrial hygiene practice suggests the use of gloves or other appropriate skin protection whenever working with chemicals. Suggested protective materials: Nitrile

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

#### Section 9: Physical and Chemical Properties

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Light amber, Transparent	Flash Point: > 374 °F / > 190 °C
Physical Form: Liquid	Test Method: Pensky-Martens Closed Cup (PMCC), ASTM D93, EPA 1010
Odor: Petroleum	Initial Boiling Point/Range: No data
Odor Threshold: No data	Vapor Pressure: <1 mm Hg
pH: Not applicable	Partition Coefficient (n-octanol/water) (Kow): No data
Vapor Density (air=1): >1	Melting/Freezing Point: No data
Upper Explosive Limits (vol % in air): No data	Auto-ignition Temperature: No data
Lower Explosive Limits (vol % in air): No data	Decomposition Temperature: No data
Evaporation Rate (nBuAc=1): No data	Specific Gravity (water=1): 0.86 - 0.88 @ 60°F (15.6°C)
Particle Size: N/A	Bulk Density: 7.2 - 7.3 lbs/gal
Percent Volatile: No data	Viscosity: 7.5 - 9.5 cSt @ 100°C; 36 - 61 cSt @ 40°C
Flammability (solid, gas): May Ignite	<b>Pour Point:</b> < -51 to -33 °F / < -46 to -36 °C
Solubility in Water: Negligible	

#### Section 10: Stability and Reactivity

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use.

#### Section 11: Toxicological Information

Information on Toxicological Effects of Substance/Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard.

Skin Corrosion/Irritation: Not expected to be irritating. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Not expected to be irritating.

**Skin Sensitization:** No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Specific Target Organ Toxicity (Repeated Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

#### Information on Toxicological Effects of Components

#### Distillates, petroleum, hydrotreated heavy paraffinic

*Carcinogenicity:* This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

#### Distillates, petroleum, solvent-dewaxed heavy paraffinic

*Carcinogenicity:* This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

#### Section 12: Ecological Information

#### GHS Classification:

#### No classified hazards

**Toxicity:** All acute aquatic toxicity studies on samples of lubricant base oils show acute toxicity values greater than 100 mg/L for invertebrates, algae and fish. These tests were carried out on water accommodated fractions and the results are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

**Persistence and Degradability:** The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

**Bioaccumulative Potential:** Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

**Mobility in Soil:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of the hydrocarbon constituents in soil and sediment.

Other adverse effects: None anticipated.

#### Section 13: Disposal Considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the MSDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste.

This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

#### Section 14: Transport Information

U.S. Department of Transport	ation (DOT)
Shipping Description:	Not regulated
Note:	If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil)

 International Maritime Dangerous Goods (IMDG)

 Shipping Description:
 Not regulated

 Note:
 U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

#### International Civil Aviation Org. / International Air Transport Assoc. (ICAO/IATA)

UN/ID	#:
Note:	

Not regulated U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 24.

	LTD. QTY	Passenger Aircraft	Cargo Aircraft Only
Packaging Instruction #:			
Max. Net Qty. Per Package:			

#### Section 15: Regulatory Information

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds):

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

#### CERCLA/SARA - Section 313 and 40 CFR 372:

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Zinc Compound(s)	<2	1.0%

#### EPA (CERCLA) Reportable Quantity (in pounds):

This material does not contain any chemicals with CERCLA Reportable Quantities.

#### California Proposition 65:

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

#### International Hazard Classification

#### Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

#### WHMIS Hazard Class:

none

#### **National Chemical Inventories**

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA All components are either on the DSL, or are exempt from DSL listing requirements.

#### U.S. Export Control Classification Number: EAR99

#### Section 16: Other Information

Date of Issue:	Previous Issue Date:	SDS Number:	Status:
26-Jul-2013	18-Feb-2013	721190	FINAL

#### **Revised Sections or Basis for Revision:**

Periodic review and update; Physical Properties (Section 9); Environmental hazards (Section 12)

#### Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### **Disclaimer of Expressed and implied Warranties:**

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

# **SAFETY DATA SHEET**

7341

Section 1. Identification		
Product name	: KRYLON® CONTRACTOR® Solvent-Based Striping Paint Highway Yellow	
Product code	: 7341	
Other means of identification	: Not available.	
CAS #	: Not applicable.	
Product type	: Aerosol.	
Relevant identified uses of t	he substance or mixture and uses advised against	
Not applicable.		
Manufacturer	: Krylon Products Group 101 W. Prospect Avenue Cleveland, OH 44115	
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year	
Product Information Telephone Number	: US / Canada: (800) 457-9566 Mexico: Not Available	
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available	
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year	

# Section 2. Hazards identification

OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 43.7% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 75% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 49. 7%
GHS label elements	

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# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging the unborn child. Suspected of causing cancer. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

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# Section 3. Composition/information on ingredients

#### Substance/mixture

Other means of identification

: Mixture

: Not available.

#### **CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Toluene	17.25	108-88-3
Propane	17.01	74-98-6
Acetone	14	67-64-1
Barium Sulfate	9.46	7727-43-7
Lt. Aliphatic Hydrocarbon Solvent	8.65	64742-89-8
Butane	8	106-97-8
Calcium Carbonate	7.98	1317-65-3
Titanium Dioxide	2.11	13463-67-7
Ethylbenzene	0.12	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary fire	st aid measures
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms	/effects, acute an	id delayed			
Potential acute health eff	ects				
Eye contact	: Causes ser	ious eye irritation.			
Inhalation		central nervous system ( May cause respiratory irri		. May cause drowsiness or	
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Section 4. First a	id measures
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Over-exposure signs/sym	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
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give mouth-to-mouth resuscitation.

# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact

# Section 7. Handling and storage

Precautions for safe handling

information and Section 13 for waste disposal.

# Section 7. Handling and storage

	<b>—</b>	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
Propane	NIOSH REL (United States, 10/2016).           TWA: 1000 ppm 10 hours.           TWA: 1800 mg/m³ 10 hours.           OSHA PEL (United States, 6/2016).           TWA: 1000 ppm 8 hours.           TWA: 1800 mg/m³ 8 hours.           TWA: 1800 mg/m³ 8 hours.           TWA: 250 ppm 8 hours.
	STEL: 500 ppm 15 minutes. <b>NIOSH REL (United States, 10/2016).</b> TWA: 250 ppm 10 hours. TWA: 590 mg/m <sup>3</sup> 10 hours. <b>OSHA PEL (United States, 6/2016).</b> TWA: 1000 ppm 8 hours. TWA: 2400 mg/m <sup>3</sup> 8 hours.
Barium Sulfate	ACGIH TLV (United States, 3/2016). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable
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	fraction TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total <b>OSHA PEL (United States, 6/2016).</b> TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Lt. Aliphatic Hydrocarbon Solvent Butane	None. <b>NIOSH REL (United States, 10/2016).</b> TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2016).</b> STEL: 1000 ppm 15 minutes.
Calcium Carbonate	NIOSH REL (United States, 10/2016). TWA: 5 mg/m <sup>3</sup> 10 hours. Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 10 hours. Form: Total OSHA PEL (United States, 6/2016). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Titanium Dioxide	ACGIH TLV (United States, 3/2016). TWA: 10 mg/m <sup>3</sup> 8 hours. OSHA PEL (United States, 6/2016). TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Ethylbenzene	ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 435 mg/m <sup>3</sup> 10 hours. STEL: 125 ppm 15 minutes. STEL: 545 mg/m <sup>3</sup> 15 minutes. OSHA PEL (United States, 6/2016). TWA: 100 ppm 8 hours. TWA: 435 mg/m <sup>3</sup> 8 hours.

#### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
toluene	CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 20 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Propane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada,
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Acetone			<ul> <li>7/2016).</li> <li>TWA: 1000 ppm 8 hours.</li> <li>CA Québec Provincial (Canada, 1/2014).</li> <li>TWAEV: 1000 ppm 8 hours.</li> <li>TWAEV: 1800 mg/m<sup>3</sup> 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 1000 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 1250 ppm 15 minutes.</li> <li>TWA: 1000 ppm 8 hours.</li> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>8 hrs OEL: 1200 mg/m<sup>3</sup> 8 hours.</li> <li>15 min OEL: 1800 mg/m<sup>3</sup> 15 minutes.</li> <li>8 hrs OEL: 500 ppm 8 hours.</li> <li>15 min OEL: 750 ppm 15 minutes.</li> <li>TWA: 250 ppm 8 hours.</li> <li>STEL: 500 ppm 8 hours.</li> <li>STEL: 500 ppm 8 hours.</li> <li>STEL: 500 ppm 15 minutes.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 500 ppm 8 hours.</li> <li>STEL: 750 ppm 15 minutes.</li> <li>CA Québec Provincial (Canada, 1/2014).</li> <li>TWAEV: 500 ppm 8 hours.</li> <li>STEL: 750 ppm 15 minutes.</li> <li>STEL: 750 ppm 15 minutes.</li> <li>CA Québec Provincial (Canada, 1/2014).</li> <li>TWAEV: 500 ppm 8 hours.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 1000 ppm 15 minutes.</li> <li>STEV: 2380 mg/m<sup>3</sup> 15 minutes.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> </ul>
Butane			STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours. CA Alberta Provincial (Canada, 4/2009).
			8 hrs OEL: 1000 ppm 8 hours. <b>CA British Columbia Provincial (Canada,</b> <b>7/2016).</b> TWA: 600 ppm 8 hours. STEL: 750 ppm 15 minutes. <b>CA Québec Provincial (Canada, 1/2014).</b> TWAEV: 800 ppm 8 hours. TWAEV: 1900 mg/m <sup>3</sup> 8 hours. <b>CA Ontario Provincial (Canada, 7/2015).</b> TWA: 800 ppm 8 hours. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.
Ethylbenzene			<ul> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>8 hrs OEL: 100 ppm 8 hours.</li> <li>8 hrs OEL: 434 mg/m<sup>3</sup> 8 hours.</li> <li>15 min OEL: 543 mg/m<sup>3</sup> 15 minutes.</li> <li>15 min OEL: 125 ppm 15 minutes.</li> <li>CA British Columbia Provincial (Canada, 7/2016).</li> <li>TWA: 20 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 20 ppm 8 hours.</li> <li>CA Québec Provincial (Canada, 1/2014).</li> <li>TWAEV: 100 ppm 8 hours.</li> </ul>
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	TWAEV: 434 mg/m <sup>3</sup> 8 hours. STEV: 125 ppm 15 minutes. STEV: 543 mg/m <sup>3</sup> 15 minutes. <b>CA Saskatchewan Provincial (Canada,</b> <b>7/2013).</b> STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
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#### **Occupational exposure limits (Mexico)**

Ingredient name	Exposure limits		
toluene	NOM-010-STPS-2014 (Mexico, 4/2016).		
	TWA: 20 ppm 8 hours.		
Propane	NOM-010-STPS-2014 (Mexico, 4/2016).		
	TWA: 1000 ppm 8 hours.		
Acetone	NOM-010-STPS-2014 (Mexico, 4/2016).		
	TWA: 500 ppm 8 hours.		
	STEL: 750 ppm 15 minutes.		
Butane	NOM-010-STPS-2014 (Mexico, 4/2016).		
	TWA: 1000 ppm 8 hours.		
Ethylbenzene	NOM-010-STPS-2014 (Mexico, 4/2016).		
	TWA: 20 ppm 8 hours.		

Appropriate engineering controls Environmental exposure	C r V V	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
controls	t c	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>res</u>	
Hygiene measures	e A V	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	a Q	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless he assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	v r c r g	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	p h s	Personal protective equipment for the body should be selected based on the task being berformed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	<ul> <li>Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.</li> </ul>

# Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid.
Color	:	Not available.
Odor	:	Not available.
Odor threshold	:	Not available.
рН	:	7
Melting point	:	Not available.
Boiling point	:	Not available.
Flash point	:	Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	:	5.6 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Lower and upper explosive	:	Lower: 0.9%
(flammable) limits		Upper: 12.8%
Vapor pressure	1	101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	1	1.55 [Air = 1]
Relative density	1	0.86
Solubility	1	Not available.
Partition coefficient: n-	1	Not available.
octanol/water		
Auto-ignition temperature		Not available.
Decomposition temperature	÷	Not available.
Viscosity	÷	Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
Molecular weight	÷	Not applicable.
Aerosol product		
Type of aerosol	1	Spray
Heat of combustion	1	24.064 kJ/g

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.

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# Section 10. Stability and reactivity

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes	-
				100	
				milligrams	
	Eyes - Mild irritant	Rabbit	-	870	-
				Micrograms	
	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Mild irritant	Pig	-	24 hours 250	-
				microliters	
	Skin - Mild irritant	Rabbit	-	435	-
				milligrams	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
	Ohim Markanska initerat	Datati		milligrams	
	Skin - Moderate irritant	Rabbit	-	500	-
Acatana	Europ Mild inside at	1.1		milligrams	
Acetone	Eyes - Mild irritant	Human	-	186300 parts	-
	Eyes - Mild irritant	Rabbit		per million 10 microliters	
	Eyes - Moderate irritant	Rabbit	-	24 hours 20	-
	Eyes - Moderate initiant	Rabbit	-	milligrams	-
	Eyes - Severe irritant	Rabbit		20 milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild Initant	TADDIL	-	milligrams	-
	Skin - Mild irritant	Rabbit	_	395	
		1 (abbit		milligrams	
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300	_
		. I di li di		Micrograms	
				Intermittent	
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
,	,			milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

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# Section 11. Toxicological information

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene Titanium Dioxide Ethylbenzene	- -	3 2B 2B	

#### **Reproductive toxicity**

Not available.

#### Teratogenicity

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Acetone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Calcium Carbonate	Category 3	Not applicable.	Respiratory tract
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Acetone	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

#### **Aspiration hazard**

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

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Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	fects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.

Teratogenicity
Developmental effects
Fertility effects

- : Suspected of damaging the unborn child.
- : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

#### Numerical measures of toxicity

Acute toxicity estimates		
Route	ATE value	
Oral	2074.9 mg/kg	

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 6900 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
Barium Sulfate	Acute EC50 634 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 32000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Acetone	-	-	Readily
Ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

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Section 12. Ecological information			
Product/ingredient name	LogPow	BCF	Potential
Toluene Lt. Aliphatic Hydrocarbon Solvent	-	90 10 to 2500	low high

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information		Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2).		-	Emergency schedules F-D, S- U
	ERG No.	ERG No.	ERG No.		
	126	126	126		

# Section 14. Transport information

Special precautions for user	: Multi-modal shipping descriptions are provided for informational purposes and d consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.	
Transport in bulk according to Annex II of MARPOL and the IBC Code	: Not available.	
	Proper shipping name	: Not available.
	Ship type	: Not available.
	Pollution category	: Not available.

## Section 15. Regulatory information

#### SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method
History	

#### Date of printing

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# Section 16. Other information

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Version	: 9
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

# **SAFETY DATA SHEET**

7347

Section 1. Identifie	cation
Product name	: KRYLON® CONTRACTOR® Water-Based Striping Paint Athletic Field Blue
Product code	: 7347
Other means of identification	: Not available.
CAS #	: Not applicable.
Product type	: Aerosol.
Relevant identified uses of t	he substance or mixture and uses advised against
Not applicable.	
Manufacturer	: Krylon Products Group 101 Prospect Avenue NW Cleveland, OH 44115
National contact	: KRYLON PRODUCTS GROUP 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year
Product Information Telephone Number	: US / Canada: (800) 457-9566 Mexico: Not Available
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year

# Section 2. Hazards identification

FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Inborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 28.1%

#### **GHS label elements**

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# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation.</li> <li>Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May be fatal if swallowed and enters airways. May cause respiratory irritation.</li> <li>May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Please refer to the SDS for additional information. Keep out of reach of children. Keep
	upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

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# Section 3. Composition/information on ingredients

#### Substance/mixture

- Other means of identification
- : Mixture
  - : Not available.

#### **CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Propane	14.4	74-98-6
Toluene	10.56	108-88-3
Hexane	7.55	110-54-3
Lt. Aliphatic Hydrocarbon Solvent	6.61	64742-89-8
2-Methylpentane	3.5	107-83-5
3-Methylpentane	1.3	96-14-0
Xylene	1.25	1330-20-7
2,3-Dimethylbutane	1.1	79-29-8
Titanium Dioxide	0.58	13463-67-7
Ethylbenzene	0.22	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary firs	t aid measures
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health eff	t <u>s</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.	
Skin contact	: Causes skin irritation.	
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# Section 4. First aid measures

Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.	
<u>Over-exposure signs/sym</u>	<u>otoms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	
ndication of immediate me	dical attention and special treatment needed, if necessary	
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask o self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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# Section 5. Fire-fighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protec	tiv	e equipment and emergency procedures				
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.				
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".				
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.				
Methods and materials for co	<u>ont</u>	ainment and cleaning up				
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.				
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact				

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	: Put on appropriate personal protecti container: protect from sunlight and not pierce or burn, even after use. A use. Avoid exposure during pregna been read and understood. Do not vapor or mist. Do not swallow. Avo Use only with adequate ventilation.	do not expose to temperatures e Avoid exposure - obtain special ir ncy. Do not handle until all safet get in eyes or on skin or clothing id breathing gas. Avoid release t	res exceeding 50°C. Do sial instructions before safety precautions have hing. Do not breathe ase to the environment.	
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information and Section 13 for waste disposal.

## Section 7. Handling and storage

		inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Propane	NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
Hexane	ACGIH TLV (United States, 3/2016). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Lt. Aliphatic Hydrocarbon Solvent 2-Methylpentane	None. ACGIH TLV (United States, 3/2016). TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
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## Section 8. Exposure controls/personal protection

3-Methylpentane	ACGIH TLV (United States, 3/2016).
	TWA: 500 ppm 8 hours.
	TWA: 1760 mg/m <sup>3</sup> 8 hours.
	STEL: 1000 ppm 15 minutes.
	STEL: 3500 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes.
	CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
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Xylene	ACGIH TLV (United States, 3/2016).
	TWA: 100 ppm 8 hours.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	STEL: 150 ppm 15 minutes.
	STEL: 651 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m <sup>3</sup> 8 hours.
2,3-Dimethylbutane	ACGIH TLV (United States, 3/2016).
	TWA: 500 ppm 8 hours.
	TWA: 1760 mg/m³ 8 hours.
	STEL: 1000 ppm 15 minutes.
	STEL: 3500 mg/m <sup>3</sup> 15 minutes.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 350 mg/m <sup>3</sup> 10 hours.
	CEIL: 510 ppm 15 minutes.
	CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
Titanium Dioxide	ACGIH TLV (United States, 3/2016).
	TWA: 10 mg/m <sup>3</sup> 8 hours.
	OSHA PEL (United States, 6/2016).
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
Ethylbenzene	ACGIH TLV (United States, 3/2016).
	TWA: 20 ppm 8 hours.
	NIOSH REL (United States, 10/2013).
	TWA: 100 ppm 10 hours.
	TWA: 435 mg/m <sup>3</sup> 10 hours.
	STEL: 125 ppm 15 minutes.
	STEL: 545 mg/m <sup>3</sup> 15 minutes.
	OSHA PEL (United States, 6/2016).
	TWA: 100 ppm 8 hours.
	TWA: 435 mg/m³ 8 hours.

### Occupational exposure limits (Canada)

Ingredient name			Exposure limits			
Propane			CA Alberta Prov 8 hrs OEL: 1000 CA British Colur 5/2015). TWA: 1000 ppr CA Quebec Prov TWAEV: 1000 p TWAEV: 1800 r CA Ontario Prov TWA: 1000 ppr CA Saskatchewa 7/2013). STEL: 1250 ppr	) ppm 8 hours mbia Provinc vincial (Cana ppm 8 hours. ng/m <sup>3</sup> 8 hours vincial (Canac a 8 hours. an Provincial	sial (Canada da, 1/2014). da, 7/2015).	
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	TWA: 1000 ppm 8 hours.
Toluene	CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada 5/2015). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes.
Hexane	TWA: 50 ppm 8 hours. CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 176 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada 5/2015). Absorbed through skin. TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 50 ppm 8 hours. TWAEV: 176 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 1/2014). STEL: 62.5 ppm 15 minutes. TWA: 50 ppm 8 hours.

### Occupational exposure limits (Mexico)

Ingredient name			Exposure limits					
Propane			NOM-010-STPS (Mexico, 4/2016).					
			LMPE-PPT: 10	00 ppm 8 hours.				
Toluene			NOM-010-STPS	6 (Mexico, 4/2016).				
			LMPE-PPT: 20	) ppm 8 hours.				
Hexane			NOM-010-STPS	6 (Mexico, 4/2016). Abso	rbed			
			through skin.					
			LMPE-PPT: 50	) ppm 8 hours.				
2-Methylpentane			NOM-010-STPS	6 (Mexico, 4/2016).				
			LMPE-CT: 100	0 ppm 15 minutes.				
			LMPE-PPT: 50	)0 ppm 8 hours.				
3-Methylpentane			NOM-010-STPS	6 (Mexico, 4/2016).				
			LMPE-CT: 100	0 ppm 15 minutes.				
			LMPE-PPT: 50	)0 ppm 8 hours.				
Xylene			NOM-010-STPS	6 (Mexico, 4/2016).				
			LMPE-CT: 150	) ppm 15 minutes.				
			LMPE-PPT: 10	0 ppm 8 hours.				
2,3-Dimethylbutane			NOM-010-STPS (Mexico, 4/2016).					
				00 ppm 15 minutes.				
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## Section 8. Exposure controls/personal protection

LMPE-PPT: 500 ppm 8 hours.

Appropriate engineering controls Environmental exposure controls	<ul> <li>Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.</li> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection logical tion.</li> </ul>
controls	they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>Ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Cootion O Dhuala	

## Section 9. Physical and chemical properties

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Evaporation rate	: 9.1 (butyl acetate = 1)	
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]	
Boiling point	: Not available.	
Melting point	: Not available.	
рН	: 7	
Odor threshold	: Not available.	
Odor	: Not available.	
Color	: Not available.	
Physical state	: Liquid.	
Appearance		

## Section 9. Physical and chemical properties

-	
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.9% Upper: 9.5%
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	: 1 [Air = 1]
Relative density	: 0.85
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm <sup>2</sup> /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 19.83 kJ/g

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
,	LD50 Oral	Rat	4300 mg/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
,	LD50 Oral	Rat	3500 mg/kg	-

Irritation/Corrosion

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Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100	-
	Eyes - Mild irritant	Rabbit	-	milligrams 870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Hexane Xylene	Eyes - Mild irritant Eyes - Mild irritant	Rabbit Rabbit	-	10 milligrams 87 milligrams	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 milligrams	-
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-

### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Xylene Titanium Dioxide	-	3 2B	-
Ethylbenzene	-	2B	-

#### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
3-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2,3-Dimethylbutane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 2	Not determined	Not determined
Toluene Hexane	Category 2 Category 2	Not determined Not determined	Not determined Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2 Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
3-Methylpentane	Category 2	Not determined	Not determined
Xylene	Category 2	Not determined	Not determined
2,3-Dimethylbutane	Category 2	Not determined	Not determined
Ethylbenzene	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Hexane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
3-Methylpentane	ASPIRATION HAZARD - Category 1
Xylene	ASPIRATION HAZARD - Category 1
2,3-Dimethylbutane	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

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Information on the likely routes of exposure	: Not available.
Potential acute health effe	ects
Eye contact	: Causes serious eye irritation.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health e	ffects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
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Teratogenicity
<b>Developmental effects</b>
Fertility effects

- : Suspected of damaging the unborn child.
- : No known significant effects or critical hazards.
- : Suspected of damaging fertility.

### Numerical measures of toxicity

Acute toxicity estimates			
Route	ATE value		
Oral Inhalation (gases)	4254.2 mg/kg 287196.6 ppm		

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - Fundulus heteroclitus	96 hours
Ethylbenzene	Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 6530 µg/l Fresh water	Crustaceans - Artemia sp Nauplii	48 hours
	Acute EC50 2930 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Xylene	-	-	Readily
Ethylbenzene	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene Hexane	-	90 501.187	low high
Lt. Aliphatic Hydrocarbon Solvent		10 to 2500	high
Xylene	-	8.1 to 25.9	low

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## Section 12. Ecological information

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Soil/water partition : Not available. coefficient (Koc)

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2).	-	-	Emergency schedules (EmS F-D, S-U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
Special precaution	126 ns for user : Multi- consi mode		126 riptions are provideo The presence of a sl c, etc.), does not ind	hipping description icate that the prod	for a particular uct is packaged

suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

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### Section 14. Transport information

Transport in bulk according : Not available. to Annex II of MARPOL and the IBC Code

Pollution category	: Not available.
Ship type	: Not available.
Proper shipping name	: Not available

### Section 15. Regulatory information

### SARA 313

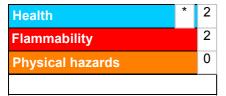
SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

Classification		Justification
FLAMMABLE AEROSOLS	- Category 1	On basis of test data
GASES UNDER PRESSU	RE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2		Calculation method
	EYE IRRITATION - Category 2A	Calculation method
CARCINOGENICITY - Cat	egory 2	Calculation method
TOXIC TO REPRODUCTION	ON (Fertility) - Category 2	Calculation method
	ON (Unborn child) - Category 2	Calculation method
	AN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3 SPECIFIC TARGET ORGA Category 3	AN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
	AN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1		Calculation method
<u>History</u>		
Date of printing	: 4/18/2017	
Date of issue/Date of revision	: 4/18/2017	
Date of previous issue	: 3/13/2017	

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### Section 16. Other information

Key to abbreviations	: ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	GHS = Globally Harmonized System of Classification and Labelling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IMDG = International Maritime Dangerous Goods
	LogPow = logarithm of the octanol/water partition coefficient
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973
	as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	UN = United Nations

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

# **SAFETY DATA SHEET**

7346

Section 1. Identified	Section 1. Identification				
Product name	: KRYLON® CONTRACTOR® Water-Based Striping Paint Athletic Field Orange				
Product code	: 7346				
Other means of identification	: Not available.				
CAS #	: Not applicable.				
Product type	: Aerosol.				
Relevant identified uses of t	he substance or mixture and uses advised against				
Not applicable.					
Manufacturer	: Krylon Products Group 101 Prospect Avenue NW Cleveland, OH 44115				
National contact	: KRYLON PRODUCTS GROUP 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada				
Emergency telephone number of the company	: US / Canada: (216) 566-2917 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year				
Product Information Telephone Number	: US / Canada: (800) 457-9566 Mexico: Not Available				
Regulatory Information Telephone Number	: US / Canada: (216) 566-2902 Mexico: Not Available				
Transportation Emergency Telephone Number	: US / Canada: (800) 424-9300 Mexico: SETIQ 01-800-00-214-00 / D.F. 5559-1588 24 hours / 365 days a year				

## Section 2. Hazards identification

Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 25.5%

### **GHS label elements**

Date of issue/Date of revision: 4/19/2017Date of previous issue: 3/13/2017Version: 3.03	Date of issue/Date of revision	: 4/19/2017	Date of previous issue	: 3/13/2017	Version :	: 3.03	1/15
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# Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.
	Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

### Section 3. Composition/information on ingredients

### Substance/mixture

Other means of identification

- : Mixture
- : Not available.

### **CAS number/other identifiers**

Ingredient name	% by weight	CAS number
Toluene	15	108-88-3
Propane	13.6	74-98-6
Lt. Aliphatic Hydrocarbon Solvent	6.57	64742-89-8
Butane	6.4	106-97-8
Light Aliphatic Hydrocarbon Solvent	5.28	64742-49-0
Light Aliphatic Hydrocarbon Solvent	5.28	68410-97-9
Heptane	1.2	142-82-5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed				
Potential acute health eff	<u>ects</u>			
Eye contact	: Causes serious eye irritation.			
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>			
Skin contact	: Causes skin irritation.			
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## Section 4. First aid measures

Ingestion	<ul> <li>Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.</li> </ul>
Over-exposure signs/symp	•
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
ndication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.

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## Section 5. Fire-fighting measures

Hazardous thern decomposition p		: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Special protective for fire-fighters	e actions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire		: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	-	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See

Environmental Data Sheet (EDS) for additional detail.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up			
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

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## Section 7. Handling and storage

Precautions for safe handling			
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.	
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.	

## Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
Propane	NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Lt. Aliphatic Hydrocarbon Solvent Butane	None. <b>NIOSH REL (United States, 10/2013).</b> TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. <b>ACGIH TLV (United States, 3/2016).</b> STEL: 1000 ppm 15 minutes.
Light Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Heptane	None. None. ACGIH TLV (United States, 3/2016). TWA: 400 ppm 8 hours. TWA: 1640 mg/m <sup>3</sup> 8 hours. STEL: 500 ppm 15 minutes. STEL: 2050 mg/m <sup>3</sup> 15 minutes.
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## Section 8. Exposure controls/personal protection

NIOSH REL (United States, 10/2013).
TWA: 85 ppm 10 hours.
TWA: 350 mg/m <sup>3</sup> 10 hours.
CEIL: 440 ppm 15 minutes.
CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
OSHA PEL (United States, 6/2016).
TWA: 500 ppm 8 hours.
TWA: 2000 mg/m <sup>3</sup> 8 hours.
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#### **Occupational exposure limits (Canada)**

Ingredient name	Exposure limits
Toluene	CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 5/2015). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Propane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 5/2015). TWA: 1000 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m <sup>3</sup> 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 1000 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.

#### **Occupational exposure limits (Mexico)**

Ingredient name	Exposure limits
Toluene	NOM-010-STPS (Mexico, 4/2016). LMPE-PPT: 20 ppm 8 hours.
Propane	<b>NOM-010-STPS (Mexico, 4/2016).</b> LMPE-PPT: 1000 ppm 8 hours.
Butane	NOM-010-STPS (Mexico, 4/2016). LMPE-PPT: 1000 ppm 8 hours.
Heptane	NOM-010-STPS (Mexico, 4/2016). LMPE-PPT: 400 ppm 8 hours. LMPE-CT: 500 ppm 15 minutes.

## Section 8. Exposure controls/personal protection

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Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	<sup>1</sup> This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection meas	ures
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

Appearance			
Physical state	: Liquid.		
Color	: Not available.		
Odor	: Not available.		
Odor threshold	: Not available.		
рН	: 7		
Melting point	: Not available.		
Boiling point	: Not available.		
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## Section 9. Physical and chemical properties

Flash point	1	Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	:	2 (butyl acetate = 1)
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 0.9% Upper: 9.5%
Vapor pressure	1	101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	1	1 [Air = 1]
Relative density	1	0.79
Solubility	1	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	1	Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
Molecular weight	1	Not applicable.
Aerosol product		
Type of aerosol	1	Spray
Heat of combustion	:	21.55 kJ/g

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Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m <sup>3</sup>	4 hours
Dutana	LD50 Oral	Rat	636 mg/kg	-
Butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
Light Aliphatic Hydrocarbon Solvent	LD50 Oral	Rat	5.17 g/kg	-
Heptane	LC50 Inhalation Gas. LC50 Inhalation Vapor	Rat Rat	48000 ppm 103 g/m³	4 hours 4 hours

Irritation/Corrosion

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## Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-

#### **Sensitization**

Not available.

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-

### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Heptane	Category 3	Not applicable.	Respiratory tract irritation and
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## Section 11. Toxicological information

Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Heptane	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Heptane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	:	Not available.
Potential acute health effe	cts	
Eye contact	1	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	1	Causes skin irritation.
Ingestion	:	Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	hy	sical, chemical and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
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Ina	esti	ion
	000	

: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate eff	ects and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	<u>fects</u>
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

### Numerical measures of toxicity

Acute toxicity estimates				
Route	ATE value			
Oral	3160.4 mg/kg			

## Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Heptane	Acute LC50 375000 µg/l Fresh water	Fish - Oreochromis mossambicus	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily

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## Section 12. Ecological information

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene Lt. Aliphatic Hydrocarbon Solvent	-	90 10 to 2500	low high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Heptane	-	552	high

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods

: This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

### Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ΙΑΤΑ	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
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Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2).	-	_	<u>Emergency</u> <u>schedules (EmS)</u> F-D, S-U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
					on for a particular
		mode of transport (sea, ai suitably for that mode of transport prior to shipment, and cor responsibility of the perso unloading dangerous goo substances and on all act	r, etc.), does not indi ansport. All packagin ppliance with the app n offering the produc ds must be trained o	icate that the pro ng must be revie blicable regulation t for transport. P n all of the risks	duct is packaged wed for suitability ns is the sole eople loading and deriving from the
Transport in bulk to Annex II of MA the IBC Code	according : N	mode of transport (sea, ai suitably for that mode of the prior to shipment, and cor responsibility of the perso unloading dangerous goo	r, etc.), does not indi ansport. All packagin ppliance with the app n offering the produc ds must be trained o	icate that the pro ng must be revie blicable regulation t for transport. P n all of the risks	duct is packaged wed for suitability ns is the sole eople loading and deriving from the
to Annex II of MA	according : N RPOL and	mode of transport (sea, a suitably for that mode of to prior to shipment, and cor responsibility of the perso unloading dangerous goo substances and on all act	r, etc.), does not indi ansport. All packagin ppliance with the app n offering the produc ds must be trained o	icate that the pro ng must be revie blicable regulation t for transport. P n all of the risks	duct is packaged wed for suitability ns is the sole eople loading and deriving from the
to Annex II of MA	according : N RPOL and	mode of transport (sea, ai suitably for that mode of the prior to shipment, and cor responsibility of the perso unloading dangerous goo substances and on all act ot available.	r, etc.), does not indi ansport. All packagin ppliance with the app offering the product ds must be trained o ons in case of emerg	icate that the pro ng must be revie blicable regulation t for transport. P n all of the risks	duct is packaged wed for suitability ns is the sole eople loading and deriving from the

### Section 15. Regulatory information

This product contains a component that is either subject to a CEPA ministerial condition or an existing/proposed SNAC (Significant New Activity). See Environmental Data Sheet (EDS) for additional detail.

### SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

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### Section 16. Other information

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1	Calculation method Calculation method

matory	
Date of printing	: 4/19/2017
Date of issue/Date of revision	: 4/19/2017
Date of previous issue	: 3/13/2017
Version	: 3.03
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

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# **SAFETY DATA SHEET**

K08310

Section 1. Identification			
Product name	: KRYLON® LINE-UP™ Athletic Striping Paint (Water-Based) Black		
Product code	: K08310		
Other means of identification	: Not available.		
CAS #	: Not applicable.		
Product type	: Aerosol.		
Relevant identified uses of t	he substance or mixture and uses advised against		
Not applicable.			
Manufacturer	: Krylon Products Group Cleveland, OH 44115		
Emergency telephone number of the company	: (216) 566-2917		
Product Information Telephone Number	: (800) 247-3266		
Regulatory Information Telephone Number	: (216) 566-2902		
Transportation Emergency Telephone Number	: (800) 424-9300		

## Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).	
Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1         GASES UNDER PRESSURE - Compressed gas         SKIN CORROSION/IRRITATION - Category 2         SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A         CARCINOGENICITY - Category 2         TOXIC TO REPRODUCTION (Fertility) - Category 2         TOXIC TO REPRODUCTION (Unborn child) - Category 2         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract         irritation) - Category 3         SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -         Category 3         SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2         ASPIRATION HAZARD - Category 1     </li> </ul>	
	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 24.5%	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
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## Section 2. Hazards identification

Hazard statements	<ul> <li>Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation.</li> <li>Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations. DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Keep
Hazarda not otherwise	upright in a cool, dry place. Do not discard empty can in trash compactor.
Hazards not otherwise classified	

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

**CAS number/other identifiers** 

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## Section 3. Composition/information on ingredients

-	<u> </u>	
Ingredient name	% by weight	CAS number
Propane	14.41	74-98-6
Toluene	12.45	108-88-3
Hexane	6.82	110-54-3
Lt. Aliphatic Hydrocarbon Solvent	4.52	64742-89-8
2-Methylpentane	3.16	107-83-5
3-Methylpentane	1.17	96-14-0
Carbon Black	0.33	1333-86-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### Description of necessary first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.	

#### Most important symptoms/effects, acute and delayed

Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	<ul> <li>Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.</li> </ul>
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
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## Section 4. First aid measures

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations	
Indication of immediate me	dical attention and special treatment needed, if necessary	
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	

Section 5. Fire-fighting measures	
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See toxicological information (Section 11)

	-
Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

## Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protec	ve equipment and emergency procedures		
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information i Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".		
Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.		
Methods and materials for co	tainment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatmen plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.		

## Section 7. Handling and storage

### Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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## Section 7. Handling and storage

Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: Store in accordance with local regulations. Store away from direct sunlight in a dry, coo and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Propane	NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours.
	STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
Hexane	ACGIH TLV (United States, 3/2016). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2013). TWA: 50 ppm 10 hours. TWA: 180 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Lt. Aliphatic Hydrocarbon Solvent 2-Methylpentane	None. ACGIH TLV (United States, 3/2016). TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes. NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
3-Methylpentane	ACGIH TLV (United States, 3/2016). TWA: 500 ppm 8 hours. TWA: 1760 mg/m <sup>3</sup> 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m <sup>3</sup> 15 minutes.
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## Section 8. Exposure controls/personal protection

	NIOSH REL (United States, 10/2013). TWA: 100 ppm 10 hours. TWA: 350 mg/m <sup>3</sup> 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m <sup>3</sup> 15 minutes.
Carbon Black	NIOSH REL (United States, 10/2013). TWA: 3.5 mg/m <sup>3</sup> 10 hours. TWA: 0.1 mg of PAHs/cm <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 3.5 mg/m <sup>3</sup> 8 hours. ACGIH TLV (United States, 3/2016). TWA: 3 mg/m <sup>3</sup> 8 hours. Form: Inhalable fraction

### Occupational exposure limits (Canada)

Propane	CA Alberta Provincial (Canada, 4/2009).				
	<ul> <li>CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours.</li> <li>CA British Columbia Provincial (Canada, 5/2015). TWA: 1000 ppm 8 hours.</li> <li>CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours.</li> <li>TWAEV: 1800 mg/m<sup>3</sup> 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015). TWA: 1000 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013).</li> <li>STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</li> </ul>				
Foluene	<ul> <li>CA Alberta Provincial (Canada, 4/2009).</li> <li>Absorbed through skin. <ul> <li>8 hrs OEL: 50 ppm 8 hours.</li> <li>8 hrs OEL: 188 mg/m<sup>3</sup> 8 hours.</li> </ul> </li> <li>CA British Columbia Provincial (Canada, 5/2015). <ul> <li>TWA: 20 ppm 8 hours.</li> <li>CA Ontario Provincial (Canada, 7/2015).</li> <li>TWA: 20 ppm 8 hours.</li> </ul> </li> <li>CA Quebec Provincial (Canada, 1/2014).</li> <li>Absorbed through skin.</li> <li>TWAEV: 50 ppm 8 hours.</li> <li>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.</li> <li>STEL: 60 ppm 15 minutes.</li> <li>TWA: 50 ppm 8 hours.</li> </ul>				
Hexane	CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 176 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 5/2015). Absorbed through skin. TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin.				

	TWA: 50 ppm 8 hours.				
	CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 176 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 62.5 ppm 15 minutes. TWA: 50 ppm 8 hours.				
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation other engineering controls to keep worker exposure to airborne contaminants below ar recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.				
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				
ndividual protection meas	res				
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.				
Eye/face protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.				
Skin protection					
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.				
Body protection	Personal protective equipment for the body should be selected based on the task bein performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.				
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.				
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.				

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## Section 9. Physical and chemical properties

AppearancePhysical state: Liquid.Color: Not available.Odor: Not available.Odor threshold: Not available.pH: 7Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive: Lower: 0.9%(flammable) limits: Upper: 9.5%Vapor density: 1 [Air = 1]
Color: Not available.Odor: Not available.Odor threshold: Not available.pH: 7Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Odor: Not available.Odor threshold: Not available.pH: 7Melting point: Not available.Boiling point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Odor threshold: Not available.pH: 7Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
pH: 7Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Melting point: Not available.Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Boiling point: Not available.Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Flash point: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Evaporation rate: 9.1 (butyl acetate = 1)Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Flammability (solid, gas): Not available.Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Lower and upper explosive (flammable) limits: Lower: 0.9% Upper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
(flammable) limitsUpper: 9.5%Vapor pressure: 13.5 kPa (101.325 mm Hg) [at 20°C]
Vapor density : 1 [Air = 1]
Relative density : 0.85
Solubility : Not available.
Partition coefficient: n- : Not available. octanol/water
Auto-ignition temperature : Not available.
Decomposition temperature : Not available.
Viscosity : Kinematic (40°C (104°F)): <0.205 cm <sup>2</sup> /s (<20.5 cSt)
Molecular weight : Not applicable.
Aerosol product
Type of aerosol : Spray
Heat of combustion : 19.12 kJ/g

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Carbon Black	LD50 Oral	Rat	>15400 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
Carbon Black	-	2B	-

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

# Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
3-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Propane	Category 2	Not determined	Not determined
Toluene	Category 2	Not determined	Not determined
Hexane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
3-Methylpentane	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Propane	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Hexane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
3-Methylpentane	ASPIRATION HAZARD - Category 1

#### Information on the likely : Not available. routes of exposure

Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
Symptoms related to the p	hysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
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Inhalation	:	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:	Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	:	Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Delayed and immediate ef Short term exposure	<u>fec</u> t	ts and also chronic effects from short and long term exposure
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Long term exposure Potential immediate effects	:	Not available.
Potential immediate		Not available.
Potential immediate effects	:	Not available.
Potential immediate effects Potential delayed effects	:	Not available.
Potential immediate effects Potential delayed effects <u>Potential chronic health effects</u>	:	Not available.
Potential immediate effects Potential delayed effects <u>Potential chronic health ef</u> Not available.	:	Not available. <u>ets</u>
Potential immediate effects Potential delayed effects Potential chronic health effects Not available. General	: ffec :	Not available. ts May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of
Potential immediate effects Potential delayed effects <u>Potential chronic health eff</u> Not available. General Carcinogenicity	: ffec :	Not available. ts May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Potential immediate effects Potential delayed effects <u>Potential chronic health eff</u> Not available. General Carcinogenicity Mutagenicity	: ffec :	Not available. <b>Its</b> May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Potential immediate effects Potential delayed effects <u>Potential chronic health eff</u> Not available. General Carcinogenicity Mutagenicity Teratogenicity	: ffec : : :	Not available. ts May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. Suspected of damaging the unborn child.

### Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3858.3 mg/kg

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## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 µg/l Fresh water	Fish - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene Hexane Lt. Aliphatic Hydrocarbon Solvent		90 501.187 10 to 2500	low high high

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered where the sever products are to be a provided by the requirement of the sever to be a solution.
	when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

## Section 14. Transport information

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	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No.	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2). <b>ERG No.</b>	- ERG No.		<u>Emergency</u> <u>schedules (EmS</u> F-D, S-U
	126	126	126		
Special precautior	consi mode suitat prior t respo unloa	modal shipping descr der container sizes. T of transport (sea, air bly for that mode of tra o shipment, and com nsibility of the person ding dangerous good ances and on all actio	he presence of a sl , etc.), does not ind ansport. All packagi pliance with the app offering the product s must be trained o	nipping description cate that the prod ng must be review blicable regulations t for transport. Pe n all of the risks de	n for a particular uct is packaged ved for suitability s is the sole ople loading and
Fransport in bulk a to Annex II of MAR the IBC Code		ailable.			
	Proper	shipping name	: Not available.		
	Ship ty	/pe	: Not available.		
	Polluti	on category	: Not available.		

## Section 15. Regulatory information

### SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

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## Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		2
Physical hazards		0

The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Procedure used to derive the classification

#### Classification

FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1

#### **Justification**

On basis of test data Calculation method Calculation method

#### **History**

Date of printing	: 12/23/2016
Date of issue/Date of revision	: 12/23/2016
Date of previous issue	: 12/6/2016
Version	: 6.01
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject

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## Section 16. Other information

to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

# **SAFETY DATA SHEET**

K08315000

## Section 1. Identification

Product name	: KRYLON® LINE-UP™ Athletic Striping Paint (Water-Based) Fluorescent Green		
Product code	: K08315000		
Other means of identification	: Not available.		
CAS #	: Not applicable.		
Product type	Aerosol.		
Relevant identified uses of t	he substance or mixture and uses advised against		
Not applicable.			
Manufacturer	: Krylon Products Group 101 Prospect Avenue NW Cleveland, OH 44115		
Emergency telephone number of the company	: (216) 566-2917		
Product Information Telephone Number	: (800) 247-3266		
Regulatory Information Telephone Number	: (216) 566-2902		
Transportation Emergency Telephone Number	: (800) 424-9300		

## Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	<ul> <li>FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A TOXIC TO REPRODUCTION (Fertility) - Category 2 TOXIC TO REPRODUCTION (Unborn child) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 20.8% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 36.5% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 18. 3%</li> </ul>
GHS label elements	
Hazard pictograms	
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## Section 2. Hazards identification

Signal word	: Danger	
Hazard statements	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. Causes skin irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements		
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. Wash hands thoroughly after handling. Pressurized container: Do not pierce or burn, even after use.	
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.	
Storage	<ul> <li>Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.</li> </ul>	
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Supplemental label elements	DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Please refer to the SDS for additional information. Keep out of reach of children. Keep	
	upright in a cool, dry place. Do not discard empty can in trash compactor.	
Hazards not otherwise classified	: DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.	

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Other means of	:	Not available.
identification		

#### **CAS number/other identifiers Ingredient name** % by weight **CAS** number Toluene 13.41 108-88-3 Propane 10.2 74-98-6 Butane 4.8 106-97-8 Lt. Aliphatic Hydrocarbon Solvent 3.45 64742-89-8 Light Aliphatic Hydrocarbon Solvent 2.31 64742-49-0 Light Aliphatic Hydrocarbon Solvent 68410-97-9 2.31

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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## Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

<b>Description of necessar</b>	<u>y first aid measures</u>
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband

Most important symptoms/	effects, acute and delayed
Potential acute health effe	icts
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.</li> </ul>
Skin contact	: Causes skin irritation.
Ingestion	<ul> <li>Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.</li> </ul>
<u>Over-exposure signs/sym</u>	<u>ptoms</u>
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight
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## Section 4. First aid measures

	increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations
Indication of immediate r	nedical attention and special treatment needed, if necessary

indication of inifiediate met	dical attention and special treatment needed, in necessary
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed.</li> <li>The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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# Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively,

disposal container. Dispose of via a licensed waste disposal contractor.	
<ul> <li>Large spill</li> <li>Stop leak if without risk. Move containers from spill area. Use spark-proof texplosion-proof equipment. Approach release from upwind. Prevent entry is water courses, basements or confined areas. Wash spillages into an effluer plant or proceed as follows. Contain and collect spillage with non-combustite absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and pcontainer for disposal according to local regulations (see Section 13). Disposition licensed waste disposal contractor. Contaminated absorbent material may product. Note: see Section 1 for emergency continformation and Section 13 for waste disposal.</li> </ul>	nto sewers, nt treatment ble, blace in use of via a bose the

or if water-insoluble, absorb with an inert dry material and place in an appropriate waste

## Section 7. Handling and storage

Precautions for safe handling	1						
Protective measures	-	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Use only with adequate ventilat Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.			re ave e ation. m I		
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.					
Conditions for safe storage, including any incompatibilities	:	and well-ver and drink. F appropriate	ntilated area, away fron Protect from sunlight.	Ilations. Store away from in incompatible materials Store locked up. Elimina nvironmental contamina Iling or use.	(see Section te all ignition	10) and foo sources. U	d
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# Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
Toluene	OSHA PEL Z2 (United States, 2/2013). TWA: 200 ppm 8 hours. CEIL: 300 ppm AMP: 500 ppm 10 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 375 mg/m <sup>3</sup> 10 hours. STEL: 150 ppm 15 minutes. STEL: 560 mg/m <sup>3</sup> 15 minutes. ACGIH TLV (United States, 3/2016). TWA: 20 ppm 8 hours.
Propane	NIOSH REL (United States, 10/2016). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m <sup>3</sup> 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m <sup>3</sup> 8 hours.
Butane	NIOSH REL (United States, 10/2016). TWA: 800 ppm 10 hours. TWA: 1900 mg/m <sup>3</sup> 10 hours. ACGIH TLV (United States, 3/2016). STEL: 1000 ppm 15 minutes.
Lt. Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent Light Aliphatic Hydrocarbon Solvent	None. None. None.

### Occupational exposure limits (Canada)

Ingredient name	Exposure limits
toluene	CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 188 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 20 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 188 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours.
Propane	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. CA British Columbia Provincial (Canada, 7/2016). TWA: 1000 ppm 8 hours. CA Québec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1800 mg/m <sup>3</sup> 8 hours.
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# Section 8. Exposure controls/personal protection

	CA Ontario Provincial (Canada, 7/2015).
	TWA: 1000 ppm 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 1250 ppm 15 minutes.
	TWA: 1000 ppm 8 hours.
Butane	CA Alberta Provincial (Canada, 4/2009).
Dutane	8 hrs OEL: 1000 ppm 8 hours.
	CA British Columbia Provincial (Canada,
	7/2016).
	TWA: 600 ppm 8 hours.
	STEL: 750 ppm 15 minutes.
	CA Québec Provincial (Canada, 1/2014).
	TWAEV: 800 ppm 8 hours.
	TWAEV: 1900 mg/m <sup>3</sup> 8 hours.
	CA Ontario Provincial (Canada, 7/2015).
	TWA: 800 ppm 8 hours.
	CA Saskatchewan Provincial (Canada,
	7/2013).
	STEL: 1250 ppm 15 minutes.
	TWA: 1000 ppm 8 hours.

#### **Occupational exposure limits (Mexico)**

Ingredient name	Exposure limits
toluene	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 20 ppm 8 hours.
Propane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 ppm 8 hours.
Butane	<b>NOM-010-STPS-2014 (Mexico, 4/2016).</b> TWA: 1000 ppm 8 hours.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measur	<u>es</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Skin protection	

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## Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	<ul> <li>Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.</li> </ul>

## Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid.
Color	: Not available.
Odor	: Not available.
Odor threshold	: Not available.
рН	: 7
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Closed cup: -29°C (-20.2°F) [Pensky-Martens Closed Cup]
Evaporation rate	: 2 (butyl acetate = 1)
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Lower: 0.9% Upper: 9.5%
Vapor pressure	: 101.3 kPa (760 mm Hg) [at 20°C]
Vapor density	: 1 [Air = 1]
Relative density	: 0.85
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): <0.205 cm <sup>2</sup> /s (<20.5 cSt)
Molecular weight	: Not applicable.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 14.688 kJ/g

## Section 10. Stability and reactivity

	, , , , , , , , , , , , , , , , , , ,
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Toluene	LC50 Inhalation Vapor LD50 Oral		49 g/m³ 636 mg/kg	4 hours -
Butane Light Aliphatic Hydrocarbon Solvent	LC50 Inhalation Vapor LD50 Oral		658000 mg/m³ 5.17 g/kg	4 hours -

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 milligrams	-
	Eyes - Mild irritant	Rabbit	-	870 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
	Skin - Mild irritant	Pig	-	24 hours 250 microliters	-
	Skin - Mild irritant	Rabbit	-	435 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	500 milligrams	-

#### **Sensitization**

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Classification**

	Product/ingredient name	OSHA	IARC	NTP				
	Toluene	-	3	-				
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## Section 11. Toxicological information

### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Butane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Lt. Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Light Aliphatic Hydrocarbon Solvent	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

### Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Toluene	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
Butane	Category 2	Not determined	Not determined
Lt. Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined
Light Aliphatic Hydrocarbon Solvent	Category 2	Not determined	Not determined

#### Aspiration hazard

Name	Result
Toluene	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
Butane	ASPIRATION HAZARD - Category 1
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Light Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	1	Not available.
Potential acute health effect	ts	
Eve contact	÷	Causes serious eve irrit

Eye contact	1	Causes serious eye irritation.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
Skin contact	:	Causes skin irritation.

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Ind	est	ion
my	631	1011

: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the ph	ysical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: nausea or vomiting reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate eff	ects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	fects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: Suspected of damaging the unborn child.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

### Numerical measures of toxicity

### Acute toxicity estimates

Route	ATE value
Oral	3759 mg/kg

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## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 µg/l Fresh water Algae - Pseudokirchneriella subcapitata		72 hours
	Acute EC50 11600 µg/l Fresh water	Crustaceans - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water Chronic NOEC 1000 μg/l Fresh water	Fish - Oncorhynchus kisutch - Fry Daphnia - Daphnia magna	96 hours 21 days
Lt. Aliphatic Hydrocarbon Solvent	Acute LC50 >100000 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name Aquatic half-life		Photolysis	Biodegradability
Toluene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Toluene Lt. Aliphatic Hydrocarbon Solvent	-	90 10 to 2500	low high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high
Light Aliphatic Hydrocarbon Solvent	-	10 to 2500	high

#### Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

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# Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport	2.1	2.1	2.1	2.1	2.1
hazard class(es)	PLANMARE OX				
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2. 13-2.17 (Class 2).	-	-	<u>Emergency</u> <u>schedules</u> F-D, S U
	ERG No.	ERG No.	ERG No.		
	126	126	126		
Special precaution	consi mode suital prior respo unloa	modal shipping descr der container sizes. T of transport (sea, air bly for that mode of tra- to shipment, and com- nsibility of the person ding dangerous good ances and on all actio	he presence of a sl , etc.), does not ind ansport. All packagi pliance with the app offering the products s must be trained o	hipping descriptior icate that the prod ng must be review plicable regulation ct for transport. Pe n all of the risks d	uct is packaged /ed for suitability s is the sole ople loading and
Transport in bulk a to Annex II of MAR the IBC Code	<b>-</b>	ailable.			
		r shipping name	: Not available.		
	Ship t	/pe on category	: Not available.		
			: Not available.		

### Section 15. Regulatory information

### <u>SARA 313</u>

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

#### California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## Section 16. Other information

#### Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	Calculation method
TOXIC TO REPRODUCTION (Unborn child) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract	Calculation method
irritation) - Category 3	
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -	Calculation method
Category 3	
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

<u>History</u>	
Date of printing	: 8/30/2017
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Version	: 5.01
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

#### Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use

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## Section 16. Other information

or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

# SAFETY DATA SHEET

Lysol® Brand Disinfectant Spray, All Scents (Aerosol)

# 1. Product and company identification

Product name	:	Lysol® Brand Disinfectant Spray, All Scents (Aerosol)
Supplier	:	Reckitt Benckiser (Canada) Inc.
		1680 Tech Avenue, Unit #2
		Mississauga, Ontario L4W 5S9 CANADA
		Telephone: +1 905 283 7000
Material uses		Multipurpose Cleaner
Product use	:	Consumer
SDS #	:	D0224478 v5.0
Formulation #:	:	1178-172 (0175917 v1.0 & 0242193 v2.0) Crisp Linen 1338-015 (0175918 v1.0 & 0258756 v1.0) Spring Waterfall 1338-018 (0175934 v1.0) Green Apple / Green Apple Breeze 1338-021 (0175938 v1.0) Crisp Berry 1338-019 (0175919 v1.0) Country 1338-026 (0175929 v1.0) Country Morning Breeze 1338-017 (0172927 v1.0) Lemon Breeze
DIN #	:	02395614
UPC Code / Sizes	:	Tin plate steel cans Crisp Linen - 6 oz, 12.5 oz, 19 oz, 350g "To Go" Crisp Linen - 1 oz, 28 g Spring Waterfall - 12.5 oz, 19 oz, 350g Green Apple - 350g Crisp Berry - 12.5 oz, 19 oz, 350g Country - 350g Country Morning Breeze - 350g Lemon Breeze - 200g, 350g and 539g
Manufacturer	:	Reckitt Benckiser LLC. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 +1 973 404 2600
Validation date		23/04/2015.
Emergency telephone numbe		
Transport Emergency		1-800-424-9300 (U.S. & Canada) CHEMTREC
phone:		Outside U.S. and Canada (North America), call Chemtrec:703-527-3887



## 2. Hazards identification

Emergency	overview

Entergency overview	
Physical state	: Liquid. [Aerosol.]
Color	: Clear.
Odor	: Characteristic.
Signal word:	: DANGER
Hazard statements	: EXTREMELY FLAMMABLE. CONTAINER MAY EXPLODE IF HEATED
Precautionary measures	: Keep out of reach of children. CONTENTS UNDER PRESSURE. Keep away from flames or sparks. Do not puncture, incinerate or store the container at temperatures above 120°F or in direct sunlight. Use only with adequate ventilation. Avoid contact with eyes and Food. Wash thoroughly after handling.
OSHA/HCS status	<ul> <li>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</li> </ul>
Potential acute health effe	<u>cts</u>
Skin	: Slightly irritating to the skin.
Eyes	: Moderately irritating to eyes.
Potential chronic health e	ffects
Chronic effects	: Contains material that may cause target organ damage, based on animal data.
Carcinogenicity	: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
Target organs	: Contains material which may cause damage to the following organs: blood, lungs, the reproductive system, liver, heart, upper respiratory tract, skin, eyes, central nervous system (CNS).
Over-exposure signs/sym	<u>ptoms</u>
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing
Eyes	: Adverse symptoms may include the following: irritation redness
Medical conditions aggravated by over- exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.
Hazard statements	:

## 3. Composition/information on ingredients

Name	CAS number	%
Ethanol	64-17-5	30 - 60
n-butane	106-97-8	5 - 10
Propane	74-98-6	1 - 2.5

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

First aid	
Eye contact	: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin contact	: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.
Inhalation	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	: Use personal protective equipment as required.
Notes to physician	: Contains denatured ethanol; ingestion may result in ethanol poisoning.

# 5. Fire-fighting measures

Flammability Remark : Not available.	
<b>Explosibility Remark</b> : Not available.	
Flammability of the product	Flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Not suitable	None known.
Special hazards arising from the substance o	<u>r mixture</u>
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide
NFPA (30B) aerosol Flammability	Level 1
Fire or projection hazard.	Aerosol cans may explode with extreme heat and become projectiles.
Advice for firefighters	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Special remarks on explosion hazards	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

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## 6. Accidental release measures

Personal precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up		
Small spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# 7. Handling and storage

	-
Handling	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Empty containers retain product residue and can be hazardous.
	Do not puncture or incinerate CONTENTS UNDER PRESSURE
Storage	: Do not store above the following temperature: 50°C (120°F). Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination.

### 7. Handling and storage

CONTAINERS SHOULD BE KEPT OUT OF REACH OF CHILDREN. Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn after use. Keep away from all sources of ignition. Fires involving flammable aerosols are severe and can spread very quickly. Warehouses and stores containing aerosols should therefore be separated from other areas by a fire resistant construction of at least one half hour duration. Stores should be well ventilated, particularily at low levels. The natural ventilation in a large open warehouse building will normally be suitable. Avoid the storage of aerosols in basesments where practicable.

#### **EPA Product**

: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

## 8. Exposure controls/personal protection

Occupational exposure limits			TWA (8 hours)		STEL (15 mins)			Ceiling (ACGIH TLV)			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
butane	US ACGIH 6/2013	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	-	-	-	-	-	-	-	-	
	BC 7/2013	600	-	-	750	-	-	-	-	-	
	ON 1/2013	800	-	-	-	-	-	-	-	-	
	QC 12/2012	800	1900	-	-	-	-	-	-	-	
ethanol	US ACGIH 6/2013	-	-	-	1000	-	-	-	-	-	
	AB 4/2009	1000	1880	-	-	-	-	-	-	-	
	BC 7/2013	-	-	-	1000	-	-	-	-	-	
	ON 1/2013	-	-	-	1000	-	-	-	-	-	
	QC 12/2012	1000	1880	-	-	-	-	-	-	-	
propane	AB 4/2009	1000	-	-	-	-	-	-	-	-	
	BC 7/2013	1000	-	-	-	-	-	-	-	-	
	ON 1/2013	1000	-	-	-	-	-	-	-	-	
	QC 12/2012	1000	1800	-	-	-	-	-	-	-	

**Recommended monitoring** procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Manufacturer: Exposure controls

Engineering measures : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 8. Exposure controls/personal protection

### Personal protection

Respiratory	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Environmental exposure controls	-	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Other protection	1	Not available.

## 9. Physical and chemical properties

Physical state	: Liquid. [Aerosol.]
Flash point	: Closed cup: 25.6°C (78.1°F)
Burning time	: Not applicable.
Burning rate	: Not applicable.
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Clear.
Odor	: Characteristic.
Taste	: Not available.
Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
рН	: 10.8 to 11.8 [Conc. (% w/w): 100%]
<b>Boiling/condensation point</b>	: Not available.
Melting/freezing point	: Not available.
Critical temperature	: Not available.
Relative density (g/ml)	: 0.8667 to 0.8967 g/cm <sup>3</sup> [20 to 25°C]
Bulk density	: 7.1 to 7.5 lbs/gal
Vapor pressure	: Not available.

## 9. Physical and chemical properties

Vapor density	: Not available.
Volatility	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.
SADT	: Not available.
Viscosity	: Not available.
lonicity (in water)	: Not available.
Dispersibility properties	: Not available.
Solubility	: Easily soluble in the following materials: cold water and hot water.
Physical/chemical properties comments	: Not available.
Aerosol product	
Type of aerosol	: Spray
Heat of combustion	: 21.41 kJ/g
Ignition distance	: <45.72 cm

## 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame).
	Keep away from extreme heat. Protect from moisture. Keep from freezing.
	Do not store above 50°C
Incompatible materials	: Do not mix with household chemicals.
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.

## **11. Toxicological information**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butane	LC50 Inhalation Vapor	Rat	658000 mg/m <sup>3</sup>	4 hours
ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
*Lysol® Brand Disinfectant	LC50 Inhalation Vapor	Rat	>2.12 mg/l	4 hours
Spray, All Scents (Aerosol)				Maximum
				attainable
				concentration

#### **Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				
Conclusion/Summers			1	11

# 11. Toxicological information

### Irritation/Corrosion

Product/ingredient name	Result		Species	Score	Exposure	Observation			
thanol	Eyes - Moderate	irritant	Rabbit	-	0.066666667 minutes 100 milligrams	-			
	Eyes - Mild irritar	ıt	Rabbit	-	24 hours 500 milligrams	-			
	Eyes - Moderate	irritant	Rabbit	_	100 microlite	rs -			
	Eyes - Severe irri		Rabbit	-	500 milligram				
	Skin - Mild irritant		Rabbit	-	400 milligram				
	Skin - Moderate i	rritant	Rabbit	-	24 hours 20 milligrams	-			
Lysol® Brand Disinfectant Spray, All Scents (Aerosol)	Eyes - Cornea op	bacity	Rabbit	< 1	72 hours	4 days			
	Skin - Primary de index (PDII)	rmal irritatio	n Rabbit	0.3	4 hours	72 hours			
Conclusion/Summary	: Not available.	Not available.							
Skin	: Slightly irritating to the skin. *Information is based on toxicity test result of the concentrate of a similar product.								
Eyes	: Moderately irritating to eyes. *Information is based on toxicity test result of the concentrate of a similar product.								
Respiratory	: Not available.								
ensitizer									
Product/ingredient name	Route of exposure	Species		Resi	ult				
Not available.									
Conclusion/Summary	: Not available.								
Skin	: Not available.								
Respiratory arcinogenicity	: Not available.								
Product/ingredient name Not available.	Result		Species	Species Dose		Exposure			
Conclusion/Summary Classification	: Not available.			<b>I</b>					
Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA			
ethanol	A3	1	-	-	-	-			
			I	<b>I</b>	I	I			
utagenicity				Resu	Result				
Product/ingredient name	Test	Ex	periment						
Product/ingredient name Not available.		Ex	periment						
Product/ingredient name Not available. Conclusion/Summary	Test : Not available.	Ex							
Iutagenicity         Product/ingredient name         Not available.         Conclusion/Summary         eratogenicity         Product/ingredient name         Not available.		Ex	Species	Dos	e	Exposure			

## 11. Toxicological information

P	Δ	n	0	Ч	• •	ct	iv		to	vi	ci	tv
	C	μ	U	u	u	υı		6	ιu			ιγ

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Not available.						
Conclusion/Summary	: Not availal	ole.				

### 12. Ecological information

#### **Ecotoxicity**

: No known significant effects or critical hazards.

#### Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute EC50 17.921 mg/l Marine water Acute EC50 2000 μg/l Fresh water Acute LC50 25500 μg/l Marine water	Algae - Ulva pertusa Daphnia - Daphnia magna Crustaceans - Artemia franciscana - Larvae	96 hours 48 hours 48 hours
	Acute LC50 42000 µg/l Fresh water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 0.375 ul/L Fresh water	Fish - Oncorhynchus mykiss Algae - Ulva pertusa Fish - Gambusia holbrooki - Larvae	4 days 96 hours 12 weeks

#### **Conclusion/Summary** : Not available.

#### Persistence/degradability

Product/ingredient name Not available.	Test	Result	Dose	Inoculum
Conclusion/Summary	: Not available.			
Partition coefficient: n- octanol/water	: Not available.			
Bioconcentration factor	: Not available.			
Mobility	: Not available.			
Toxicity of the products of biodegradation	: Not available.			
Other adverse effects	: No known signif	ficant effects or critical hazards.		

### 13. Disposal considerations

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Waste disposal
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isposal
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## **14. Transport information**

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1950	Aerosols, flammable	2.1	-	$\diamond$	Limited quantity
TDG Classification	UN1950	Aerosols, flammable	2.1	-	$\bigcirc$	Limited quantity
Mexico Classification	UN1950	Aerosols, flammable	2.1	-	$\diamondsuit$	Limited quantity
IMDG Class	UN1950	Aerosols, flammable	2.1	-	$\bigcirc$	Limited quantity
IATA-DGR Class	UN1950	Aerosols, flammable	2.1	-	2	See DG List

PG\* : Packing group

# 15. Regulatory information

United States		
U.S. Federal regulations	CA 8(a) PAIR: 2-methylpropan-2-ol RA 302/304: No products were found. RA 311/312 Hazards identification: Fire hazard, Delayed (chronic) hea ean Water Act (CWA) 311: ammonia ean Air Act (CAA) 112 regulated flammable substances: butane; prop	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	listed	
Clean Air Act Section 602 Class I Substances	listed	
Clean Air Act Section 602 Class II Substances	listed	
DEA List I Chemicals (Precursor Chemicals)	listed	
DEA List II Chemicals (Essential Chemicals)	listed	
SARA 311/312 HCS 1994		
Classification	e hazard ayed (chronic) health hazard	
Composition/information o	<u>edients</u>	

### 15. Regulatory information

Name			%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
butane			5 - 10	Yes.	Yes.	No.	No.	Yes.
ethanol			30 - 60	Yes.	No.	No.	Yes.	Yes.
propane			1 - 2.5	Yes.	Yes.	No.	No.	Yes.
State regulations								
Massachusetts	:	: The following components are listed: ETHYL ALCOHOL; BUTANE; PROPANE						
New York	:	: None of the components are listed.						
New Jersey	:	<ul> <li>The following components are listed: ETHYL ALCOHOL; ALCOHOL; BUTANE; PROPANE</li> </ul>						
Pennsylvania	:	: The following components are listed: DENATURED ALCOHOL; BUTANE; PROPANE						
anada								
WHMIS (Canada)	: Class B-2: Flammable liquid							
· · · ·		Class B-5: F		•				
Canadian lists								
Canadian NPRI	:	The following	g compon	ents are l	isted: Ethano	; Butane (all is	somers); Propar	ne
CEPA Toxic substances	:	: None of the components are listed.						
Canada inventory		: Not determined.						

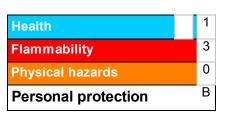
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### 16. Other information

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Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)



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NFPA (30B) aerosol Flammability Level 1

### **16. Other information**

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue	1	23/04/2015.
Date of previous issue	:	22/04/2015.
Version	:	5
Prepared by	-	Reckitt Benckiser LLC. Product Safety Department 1 Philips Parkway Montvale, New Jersey 07646-1810 USA. FAX: 201-476-7770

#### **Revision comments** : Update & Revision of the SDS. Addition of formula #0175927.

Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Safety Data Sheet

According to OSHA HCS 2012 (29 CFR 1910.1200), Health Canada HPR (SOR/2015-17), and Mexico NOM-018-STPS-2015



SECTION 1: Identification								
Product Identifier	Megaplex® XD5 Grease							
Other means of identification	•							
	Phillips 66 Megaplex® XD5 Grease #0							
	Phillips 66 Megaplex® XD5 Grease #1	Phillips 66 Megaplex® XD5 Grease #1						
	Phillips 66 Megaplex® XD5 Grease #1	W						
	Phillips 66 Megaplex® XD5 Grease #2							
Code	LBPH778587							
Relevant identified uses	Lubricating Grease							
Uses advised against	All others							
24 Hour Emergency Phone Number	CHEMTREC 1-800-424-9300							
	CHEMTREC México 01-800-681-9531							
Manufacturer/Supplier Phillips 66 Lubricants P.O. Box 4428 Houston, TX 77210	SDS Information URL: www.Phillips66.com Phone: 800-762-0942 Email: SDS@P66.com	Customer Service U.S.: 800-368-7128 or International: 1-832-765-2500 Technical Information 1-877-445-9198						

### **SECTION 2: Hazard identification**

**Classified Hazards** 

No classified hazards

Hazards Not Otherwise Classified (HNOC)

PHNOC: None known

HHNOC: None known

#### Label Elements

No classified hazards

### SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	15 - 40

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### **SECTION 4: First aid measures**

**Eye Contact:** If irritation or redness develops from exposure, flush eyes with clean water. If symptoms persist, seek medical attention.

Skin Contact: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. If product is injected into or

under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician. (see Note to Physician)

**Inhalation:** First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. Seek immediate medical attention.

Ingestion: First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

**Most important symptoms and effects, both acute and delayed:** Inhalation of oil mists or vapors generated at elevated temperatures may cause respiratory irritation. Accidental ingestion can result in minor irritation of the digestive tract, nausea and diarrhea. Prolonged or repeated contact may dry skin and cause irritation

**Notes to Physician:** When using high-pressure equipment, injection of product under the skin can occur. In this case, the casualty should be sent immediately to the hospital. Do not wait for symptoms to develop. High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. These injuries often require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury. Early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### SECTION 5: Firefighting measures

#### NFPA 704 Hazard Class

Health: 0 Flammability: 1 Instability: 0



0 (Minimal) 1 (Slight) 2 (Moderate) 3 (Serious) 4 (Severe)

**Extinguishing Media:** Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F / 100°C. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

#### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

**Special protective actions for fire-fighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely. Avoid spreading burning liquid with water used for cooling purposes.

#### See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

#### **SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Use water sparingly to minimize environmental contamination and reduce disposal requirements. If spill occurs on water notify appropriate authorities and advise shipping of any hazard. Spills into or upon navigable waters, the contiguous zone, or adjoining shorelines that cause a sheen or discoloration on

the surface of the water, may require notification of the National Response Center (phone number 800-424-8802).

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand or vermiculite, and place in suitable container for disposal. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents). In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. See Section 13 for information on appropriate disposal.

#### **SECTION 7: Handling and storage**

**Precautions for safe handling:** Keep away from flames and hot surfaces. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Spills will produce very slippery surfaces. High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Do not wear contaminated clothing or shoes.

**Conditions for safe storage:** Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated area away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

#### SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH	OSHA	Mexico	Phillips 66
Distillates, petroleum, solvent-dewaxed heavy paraffinic	TWA: 5mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup> as Oil Mist. if Generated			

# Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation, or injury. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Suggested protective materials: Nitrile

**Respiratory Protection:** Where there is potential for airborne exposure above the exposure limit a NIOSH certified air purifying respirator equipped with R or P95 filters may be used.

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use. Air purifying respirators provide limited protection and cannot be used in atmospheres that exceed the maximum use concentration (as directed by regulation or the manufacturer's instructions), in oxygen deficient (less than 19.5 percent oxygen) situations, or under conditions that are immediately dangerous to life and health (IDLH).

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

#### **SECTION 9: Physical and chemical properties**

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Moly Gray	Flash Point: 300 °F / 149 °C
Physical Form: Semi-Solid	Test Method: Cleveland Open Cup (COC), ASTM D92
Odor: Petroleum	Initial Boiling Point/Range: No data
Odor Threshold: No data	Vapor Pressure: <1 mm Hg
pH: Not applicable	Partition Coefficient (n-octanol/water) (Kow): No data
Vapor Density (air=1): > 5	Melting/Freezing Point: No data
Upper Explosive Limits (vol % in air): No data	Auto-ignition Temperature: No data
Lower Explosive Limits (vol % in air): No data	Decomposition Temperature: No data
Evaporation Rate (nBuAc=1): No data	Specific Gravity (water=1): 0.95 @ 60°F (15.6°C)
Particle Size: Not applicable	Bulk Density: 7.96 lbs/gal
Percent Volatile: No data	Viscosity: No data
Flammability (solid, gas): Not applicable	Solubility in Water: Insoluble

#### **SECTION 10: Stability and reactivity**

Reactivity: Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition.

Incompatible materials: Avoid contact with strong oxidizing agents and strong reducing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use.

#### **SECTION 11: Toxicological information**

#### Information on Toxicological Effects

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful		>5 mg/L (mist, estimated)
Dermal	Unlikely to be harmful		> 2 g/kg (estimated)
Oral	Unlikely to be harmful		> 5 g/kg (estimated)

Aspiration Hazard: Not expected to be an aspiration hazard

Skin Corrosion/Irritation: Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.

Serious Eye Damage/Irritation: Causes mild eye irritation.

**Skin Sensitization:** No information available on the mixture, however none of the components have been classified for skin sensitization (or are below the concentration threshold for classification).

Respiratory Sensitization: No information available.

**Specific Target Organ Toxicity (Single Exposure):** No information available on the mixture, however none of the components have been classified for target organ toxicity (or are below the concentration threshold for classification).

Specific Target Organ Toxicity (Repeated Exposure): No information available on the mixture, however none of the

components have been classified for target organ toxicity (or are below the concentration threshold for classification).

**Carcinogenicity:** No information available on the mixture, however none of the components have been classified for carcinogenicity (or are below the concentration threshold for classification).

**Germ Cell Mutagenicity:** No information available on the mixture, however none of the components have been classified for germ cell mutagenicity (or are below the concentration threshold for classification).

**Reproductive Toxicity:** No information available on the mixture, however none of the components have been classified for reproductive toxicity (or are below the concentration threshold for classification).

#### Information on Toxicological Effects of Components

Distillates, petroleum, solvent-dewaxed heavy paraffinic

*Carcinogenicity:* This oil has been highly refined by a variety of processes to reduce aromatics and improve performance characteristics. It meets the IP-346 criteria of less than 3 percent PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.

#### **SECTION 12: Ecological information**

### GHS Classification:

#### No classified hazards

**Toxicity:** All acute aquatic toxicity studies on samples of lubricant base oils show acute toxicity values greater than 100 mg/L for invertebrates, algae and fish. These tests were carried out on water accommodated fractions and the results are consistent with the predicted aquatic toxicity of these substances based on their hydrocarbon compositions.

**Persistence and Degradability:** The hydrocarbons in this material are not readily biodegradable, but since they can be degraded by microorganisms, they are regarded as inherently biodegradable.

**Bioaccumulative Potential:** Log Kow values measured for the hydrocarbon components of this material are greater than 5.3, and therefore regarded as having the potential to bioaccumulate. In practice, metabolic processes may reduce bioconcentration.

**Mobility in Soil:** Volatilization to air is not expected to be a significant fate process due to the low vapor pressure of this material. In water, base oils will float and spread over the surface at a rate dependent upon viscosity. There will be significant removal of hydrocarbons from the water by sediment adsorption. In soil and sediment, hydrocarbon components will show low mobility with adsorption to sediments being the predominant physical process. The main fate process is expected to be slow biodegradation of the hydrocarbon constituents in soil and sediment.

Other adverse effects: None anticipated.

#### SECTION 13: Disposal considerations

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations. This material, if discarded as produced, would not be a federally regulated RCRA "listed" hazardous waste and is not believed to exhibit characteristics of hazardous waste. See Sections 7 and 8 for information on handling, storage and personal protection and Section 9 for physical/chemical properties. It is possible that the material as produced contains constituents which are not required to be listed in the SDS but could affect the hazardous waste determination. Additionally, use which results in chemical or physical change of this material could subject it to regulation as a hazardous waste. This material under most intended uses would become "Used Oil" due to contamination by physical or chemical impurities. Whenever possible, Recycle used oil in accordance with applicable federal and state or local regulations. Container contents should be completely used and containers should be emptied prior to discard.

#### **SECTION 14: Transport information**

U.S. Department of Transportation (DOT) UN Number: Not regulated UN proper shipping name: None Transport hazard class(es): None Packing Group: None Environmental Hazards: This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant Special precautions for user: If shipped by land in a packaging having a capacity of 3,500 gallons or more, the provisions of 49 CFR, Part 130 apply. (Contains oil) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

#### SECTION 15: Regulatory information

#### **CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)**

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

US EPA has published a final rule aligning hazardous chemical reporting under sections 311 and 312 of the Emergency Planning and Community Right-to-Know Act (EPCRA) with OSHA HCS. See Section 2 for hazard classifications under EPCRA.

#### CERCLA/SARA - Section 313 and 40 CFR 372

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis	
Zinc Compound(s)	1 - 5	1.0%	

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### EPA (CERCLA) Reportable Quantity (in pounds)

This material does not contain any chemicals with CERCLA Reportable Quantities.

#### **California Proposition 65**

This material does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm at concentrations that trigger the warning requirements of California Proposition 65.

#### International Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements.

#### SECTION 16: Other information

Issue Date:	Previous Issue Date:	SDS Number	Status:
20-Jun-2017	22-Jun-2016	LBPH778587	FINAL

#### **Revised Sections or Basis for Revision:**

Format change; Personal Protective Equipment (Section 8)

#### Legend (pursuant to NOM-018-STPS-2015):

The information within is considered correct but is not exhaustive and will be used for guidance only, which is based on the current knowledge of the substance or mixture and is applicable to the appropriate safety precautions for the product.

#### Guide to Abbreviations:

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; HPR = Hazardous Products Regulations; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### **Disclaimer of Expressed and implied Warranties:**

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

# **ONE-STEP GRAFFETTI REMOVER TOWELS**

HMIS RATING		NFPA 704 RA	TING
Health N/A	MATERIAL	Health	1
Flammability N/A	SAFETY DATA	Flammability	2
Reactivity N/A	SHEET	Reactivity	0
KIMBALL-MIDWEST		NFPA 30B LE	VEL
P.O. BOX 2470		N/A	
COLUMBUS, OH 43216-2470			
CORPORATE TELEPHONE: 61 EMERGENCY TELEPHONE: 80			
	ODUCT IDENTIFICAT		
PART NUMBER			
PRODUCT NAME		over Towels	
CHEMICAL FAMILY	•	lover lowers	
DOT SHIPPING		Q)	
2 HA	ZARDOUS INGREDIE	NTS	
SPECIFIC CHEMICAL IDENTITY, COMMON		ACGIH TLV STEL	%
Dimethyl Glutarate (1119-40-4)	N/E	N/E -	30-40
Methyl Ester of soybean oil (67784-		N/E -	15-25
Ethyl Lactate (97-64-3)	N/E	N/E -	15-25
Dimethyl succinate (106-65-0) Dimethyl adipate (627-93-0)	N/E	N/E - N/E -	10-15 5-10
Allchemicalcompoundsmarkedwith	N/E anasterisk(*)aretoxicchemicalssubi	=	
TitleIIIoftheSuperfundAmendment			
notifyeachpersontowhomthismixtu	reoftradenameproductissold. This st	atementmustnotbedet	tached.Any
copy or redistribution of this Mater	ial Safety Data Sheet shall include	this statement. **Ce	iling
	3. PHYSICAL DATA		
BOILING POINT (RANGE)	N/A		
VAPOR PRESSURE PSIG @ 80°F	N/D		
VAPOR DENSITY (AIR = 1)			
SOLUBILITY IN WATER		le*	
SPECIFIC GRAVITY (H2O = 1)			
MELTING/FREEZING POINT			
EVAPORATION RATE (61%=1)N/D			
VOC content (by weight)			1
APPEARANCE AND ODOR			
	a ciea odor.	r, water-white liqui	ia, mila
*Tested using the liquid comp			
	E AND EXPLOSION D	ATA	
	N1/A		
UPPER EXPLOSIVE LIMIT (%)			
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%)	N/A	From Cold	Disutit
UPPER EXPLOSIVE LIMIT (%)	N/A Wate	r, Foam, Carbon	Dioxide,
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA	N/A Wate Dry Chemical.		
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA	Dry Chemical. DURES Cool f water fog. Fire fighters sh	ire exposed contai ould be equipped	ners with with full
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA SPECIAL FIREFIGHTING PROCE	N/A Dry Chemical. EDURES	ire exposed contai ould be equipped	ners with with full
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA SPECIAL FIREFIGHTING PROCE FIRE AND EXPLOSION HAZARI	N/A Wate Dry Chemical. DURES	ire exposed contai ould be equipped self-contained b	ners with with full
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA SPECIAL FIREFIGHTING PROCE FIRE AND EXPLOSION HAZARI	N/A Wate Dry Chemical. EDURES	ire exposed contai ould be equipped self-contained b	ners with with full
UPPER EXPLOSIVE LIMIT (%) LOWER EXPLOSIVE LIMIT (%) EXTINGUISHING MEDIA SPECIAL FIREFIGHTING PROCE FIRE AND EXPLOSION HAZARI	N/A Wate Dry Chemical. EDURESCool f protective gear including apparatus. DSNone IEALTH EFFECTS DAT RT TERM EFFECTS OF EXPOSL	ire exposed contai ould be equipped self-contained b A I <u>RE</u>	ners with with full

HEALTH HAZARDS

(ACUTE AND CHRONIC)	
INGESTION	Gastrointestinal irritation, nausea, cramps,
	vomiting.
SKIN CONTACT	Redness, dryness and irritation, with prolonged or
	repeated exposure.
INHALATION	Irritation to upper respiratory tract.
EYE CONTACT	

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE .....No medical conditions are know to be aggravated by this product.

5.1	HEALTH EFFECTS DATA CON'T.
	FIRST AID PROCEDURES
EYE CONTACT	Flush eyes with a directed stream of water for a least 15 minutes. If irritation persists, obtain medica attention.
SKIN	Wash with water. If irritation persists, obtain medica attention. Remove contaminated clothing and launde seperately before reuse.
INHALATION	Move individual to fresh air. If breathing has stoppe administer artificial respiration. If breathing is difficul give oxygen. Obtain medical attention.
INGESTION	Contact physician or poison control center immediately. Give affected person one to two glasse of water. Do not induce vomiting. Never give anythin to an unconscious person.
SPECIAL HEALTH EFFECT	<u>rs</u>
CARCINOGEN (OSHA Gu	idelines)Not presently listed.
	6. REACTIVITY
STABILITY	Stable under normal conditions.
INCOMPATIBILITIES	Oxidizers, strong acids an alkalies.

	aikalles.
HAZARDOUS DECOMPOSITION	
PRODUCTS	.Thermal Decomposition may
	produce oxides of carbon.
HAZARDOUS POLYMERIZATION	.Will not occur under normal
	conditions.
HAZARDOUS POLYMERIZATION CONDITIONS	. None known.

7. PRECAUTIONS FOR SAFE HANDLING & USE	
PROTECTIVE EQUIPMENT	
REQUIREMENTS	Use adequate ventilation, wear chemical resistant gloves, safety goggles or glasses.
WASH REQUIREMENTS	Normal cleanliness.
SPILL OR LEAK PROCEDURES	Soak up spilled material with inert absorbent material and place in a properly labeled closed container for disposal.
WASTE DISPOSAL METHODS	Dispose of in accordance with local, state, and federal regulations. Consult local environmental authorities.
HANDLING & STORAGE	.Keep container closed when handling or storing. Store in a cool dry place. Keep out of reach of children.
OTHER PRECAUTIONS	.None.

8. ADDITIONAL INFORMATION

Use self-contained breathing apparatus if TLV limits are exceeded. Do not eat or smoke while using. Wash hands after use. Use positive pressure air supplied respirator if there is potential for uncontrolled release, if exposure levels are unknown, or in any circumstance where air purifying respirators may not provide adequate protection.

THE INFORMATION GIVEN AND THE RECOMMENDATIONS MADE HEREIN APPLY TO OUR PRODUCT(S) ALONE AND ARE NOT COMBINED WITH OTHER PRODUCTS. SUCH INFORMATION IS BASED UPON OUR RESEARCH AND ON DATA FROM OTHER RELIABLE SOURCES AND IS BELIEVED TO BE ACCURATE. NO GUARANTEE OF ACCURACY IS MADE. IT IS THE PURCHASER'S RESPONSIBILITY BEFORE USING ANY PRODUCT TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS AND TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PURPOSES.



Specializing in Materials Management since 1923



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 Date of issue: 11/09/2016 Revision date: 06/26/2017 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product name	: PB Penetrating Catalyst
Product code	: 16-PB, 8-PB, 8-PBS, PB-TS, 20-PB, 26-PB
1.2. Relevant identified uses of the su	bstance or mixture and uses advised against
Use of the substance/mixture	: Penetrant
1.3. Details of the supplier of the safet	ty data sheet
Manufacturer The Blaster Corporation 8500 Sweet Valley Drive Valley View, Ohio 44125 - USA T (216) 901-5800 - F (216) 901-5801 www.blastercorp.com	
1.4. Emergency telephone number	
Emergency number	: ChemTel 800-255-3924
SECTION 2: Hazard(s) identificatio	n
2.1. Classification of the substance or	
GHS-US classification Flam. Aerosol 2 Dissolved gas Asp. Tox. 1	
2.2. Label elements	
GHS-US labelling Hazard pictograms (GHS-US)	HS02 GHS04 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: Flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways.
Precautionary statements (GHS-US)	: Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/container in accordance with local, regional, national and/or international regulation.
2.3. Other hazards	
No additional information available	
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/informat	ion on ingredients
3.1. Substances	
Not applicable	
F.B	

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

3.2. Mixtures		
Name	Product identifier	%
Petroleum distillates, hydrotreated light	(CAS No) 64742-47-8	50 - 60
Solvent naphtha, petroleum, heavy aromatic	(CAS No) 64742-94-5	20 - 30
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	20 - 30
Carbon dioxide	(CAS No) 124-38-9	1 - 4

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation :	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact :	If irritation occurs, flush skin with plenty of water. Get medical attention if irritation persists. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Direct contact with the eyes is likely to be irritating.
First-aid measures after ingestion :	IF SWALLOWED: immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/injuries after inhalation :	May cause respiratory tract irritation.
Symptoms/injuries after skin contact :	May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact :	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion :	May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide, dry chemical, halons or foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: Flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon and oxides of nitrogen.
Explosion hazard	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity	: No dangerous reaction known under conditions of normal use.
5.3. Advice for firefighters	
Firefighting instructions	: DO NOT fight fire when fire reaches explosives. Evacuate area. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Use water spray to keep fire-exposed containers cool.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protective e	6.1. Personal precautions, protective equipment and emergency procedures	
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges.	
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.	
6.1.2. For emergency responders		
Protective equipment	: Equip cleanup crew with proper protection.	
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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

Emerge	ency procedures	: Ventilate area.
6.2.	Environmental precaution	ons
Preven	t entry to sewers and public v	vaters. Notify authorities if liquid enters sewers or public waters.
6.3.	Methods and material fo	r containment and cleaning up
For cor	ntainment	Eliminate sources of ignition. Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Method	ls for cleaning up	: Scoop up material and place in a disposal container. Provide ventilation.
6.4.	Reference to other secti	ons
See se	ction 8 for further information	on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precautio	ons for safe handling	: Do not spray on an open flame or other ignition source. Keep away from sources of ignition - No smoking. Use non-sparking tools. Use explosion-proof equipment. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas, fumes, vapour or spray. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Do not pierce or burn, even after use.
Hygiene	measures	: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.
7.2.	Conditions for safe storage, including	any incompatibilities
Technica	l measures	: Proper grounding procedures to avoid static electricity should be followed.
Storage	conditions	: Keep locked up and out of reach of children. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store away from direct sunlight or other heat sources. Keep in fireproof place.
Storage a	area	: Store in a well-ventilated place.

8.1. Control para	osure controls/personal protection		
· · ·	s, hydrotreated light (64742-47-8)		
Not applicable			
Solvent naphtha, pe	etroleum, heavy aromatic (64742-94-5)		
Not applicable			
Distillates, petroleu	m, hydrotreated heavy naphthenic (64742-52-5)		
Not applicable			
Carbon dioxide (124	1-38-9)		
ACGIH	ACGIH TWA (ppm)	5000 ppm	
ACGIH	ACGIH STEL (ppm)	30000 ppm	
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	9000 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	5000 ppm	
8.2. Exposure co	ontrols		
ppropriate engineerin	g controls : Use ventilation adequ recommended expos	ate to keep exposures (airborne levels of dust, fume, vapor, ire limits.	, etc.) below
and protection	: Wear chemically resis	tant protective gloves	

Hand protection	: Wear chemically resistant protective gloves.
Eye protection	: Safety glasses or goggles are recommended when using product.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Maintain levels below Community environmental protection thresholds.
Other information	: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.



Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

	R29 1910.1200) hazColli 2012
<b>SECTION 9: Physical and chemical</b>	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Liquid
Appearance	: Clear. Aerosol.
Colour	: Orange
Odour	: Characteristic
Odour threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 356 °F (180 °C)
Flash point	: > 141 °F (> 61 °C)
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 0.9
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
9.2. Other information	
Heat of Combustion	: 45.8 kJ/g
Flame Projection	: 0 inches
Flashback	: None
SECTION 10: Stability and reactivit	
OLOTION TO. Stability and reactivit	

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under normal storage conditions. Flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

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 10.3.
 Possibility of hazardous reactions

 No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

Sources of ignition. Heat. Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May include, and are not limited to: oxides of carbon and oxides of nitrogen.

#### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity

10.6.

: Not classified.

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PB Penetreating Catalyst	
LD50 oral rat	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LD50 dermal rabbit	> 2000 mg/kg (Calculated Acute Toxicity Estimate)
LC50 inhalation rat	> 5 mg/l/4h (Calculated Acute Toxicity Estimate)
Petroleum distillates, hydrotreated light (647	42-47-8)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 5.2 mg/l/4h
Solvent naphtha, petroleum, heavy aromatic	(64742-94-5)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 inhalation rat	> 590 mg/m <sup>3</sup> (Exposure time: 4 h)
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
Specific target organ toxicity (single exposure)	: Not classified.
Specific target organ toxicity (repeated exposure)	: Not classified.
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	May cause long-term adverse effects in the aquatic environment.
Petroleum distillates, hydrotreated light (6474	2-47-8)
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Solvent naphtha, petroleum, heavy aromatic (	64742-94-5)
LC50 fish 1	19 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 1	0.95 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	2.34 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Distillates, petroleum, hydrotreated heavy na	ohthenic (64742-52-5)
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

# **Persistence and degradability** Persistence and degradability Not established.

#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

12.3. Bioaccumulative potential	
PB Penetreating Catalyst	
Bioaccumulative potential	Not established.
Petroleum distillates, hydrotreated light	(64742-47-8)
BCF fish 1	61 - 159
Solvent naphtha, petroleum, heavy arom	patic (64742-94-5)
BCF fish 1	61 - 159
Partition coefficient n-octanol/water	2.9 - 6.1
Carbon diswide (424.29.0)	
Carbon dioxide (124-38-9) BCF fish 1	(no bioaccumulation)
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Effect on the global warming	: No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerat	ions
13.1. Waste treatment methods	
Waste disposal recommendations	: This material must be disposed of in accordance with all local, state, provincial, and federal
	regulations. The generation of waste should be avoided or minimized wherever possible.
Additional information	: Flammable vapours may accumulate in the container.
SECTION 14: Transport information	on
Department of Transportation (DOT)	
n accordance with DOT	
Transport document description	: UN1950 Aerosols (flammable, (each not exceeding 1 L capacity)), 2.1
JN-No.(DOT)	: UN1950
Proper Shipping Name (DOT)	: Aerosols
	flammable, (each not exceeding 1 L capacity)
Class (DOT)	: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115 : 2.1 - Flammable gas
Hazard labels (DOT)	
	$\langle \rangle$
Other information	· No supplementary information available
Special transport precautions	<ul> <li>No supplementary information available.</li> <li>Do not handle until all safety precautions have been read and understood.</li> </ul>
	. Do not natione utilit all safety precautions have been read and understood.
SECTION 15: Regulatory informat	ion
15.1. US Federal regulations	
All components of this product are listed or	excluded from listing, on the United States Environmental Protection Agency Toxic
Substances Control Act (TSCA) inventory.	solution noting, on the onited office Environmental Protection Agency Foxic
5.2. International regulations	

No additional information available

#### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

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Naphthalene (91-20-3)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	No	No	No	5.8 µg/day

Carbon dioxide (124-38-9)
U.S New Jersey - Right to Know Hazardous Substance List
U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information	
Date of issue	:

Date of issue	:	11/09/2016
Revision date	:	06/26/2017
Other information	:	None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.





<b>SECTION 1: Identification</b>	
Product Identifier	Propane
Other means of identification	Commercial Propane(All); EGP; Export Grade Propane; HD5 Propane; LP-Gas; Liquefied Petroleum Gas; Odorized Propane; Propane (Unstenched); Propane Commercial; Propane Motor Fuel; Propane for Process; Stenched Propane; Unodorized Propane
Relevant identified uses	Fuel Chemical Chemical feedstock
Uses advised against	Other uses are not recommended unless an assessment demonstrates potential exposures will be controlled.
24 Hour Emergency Phone Number	r CHEMTREC 1-800-424-9300 CHEMTREC México 01-800-681-9531
Manufacturer/Supplier Ferrellgas (Blue Rhino) One Liberty Plaza Liberty, MO 64068	SDS Information Phone: 855-738-9178 Email: Safety-fromFG.com@ferrellgas.com URL: www.ferrellgas.com

#### **SECTION 2: Hazard identification**

#### **Classified Hazards**

H220 - Flammable gases -- Category 1 H280 -- Gases under pressure -- Liquefied gas Simple asphyxiant Hazards Not Otherwise Classified (HNOC)

PHNOC: None known

HHNOC: None known

#### Label Elements



#### DANGER

Extremely flammable gas Contains gas under pressure. May explode if heated. May displace oxygen and cause rapid suffocation

Keep away from heat/sparks/open flames/hot surfaces. - No smoking; Take precautionary measures against static discharge; Leaking gas fire: Do not extinguish, unless leak can be stopped safely; Eliminate all ignition sources if safe to do so; Protect from sunlight. Store in a well-ventilated place

#### SECTION 3: Composition/information on ingredients

Chemical Name	CASRN	Concentration <sup>1</sup>
Propane	74-98-6	80-100
Propene	115-07-1	<20
Ethane	74-84-0	<6
Butane	106-97-8	<5
Isobutane	75-28-5	<2.5

<sup>1</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

HD-5 COMPOSITION: Propane >90%, Propylene <5%

Odorized products contain small quantities (<0.1%) ethyl mercaptan as an olfactory indicator.

#### SECTION 4: First aid measures

**Eye Contact:** For contact with the liquefied gas, remove contact lenses if present and easy to do, hold eyelids apart and gently flush the affected eye(s) with lukewarm water. Seek immediate medical attention.

**Skin Contact:** Liquefied gases may cause cryogenic burns or injury. Treat burned or frostbitten skin by flushing or immersing the affected area(s) in lukewarm water. Do not rub affected area. Do not remove clothing that adheres due to freezing. After sensation has returned to the frostbitten skin, keep skin warm, dry, and clean. If blistering occurs, apply a sterile dressing. Seek immediate medical attention.

**Inhalation:** If respiratory symptoms develop, move victim away from source of exposure and into fresh air in a position comfortable for breathing. If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel. If symptoms persist, seek medical attention.

Ingestion: This material is a gas under normal atmospheric conditions and ingestion is unlikely.

**Most important symptoms and effects, both acute and delayed:** Light hydrocarbon gases are simple asphyxiants and can cause anesthetic effects at high concentrations. Symptoms of overexposure, which are reversible if exposure is stopped, can include shortness of breath, drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting. Continued exposure can lead to hypoxia (inadequate oxygen), rapid breathing, cyanosis (bluish discoloration of the skin), numbness of the extremities, unconsciousness and death.

**Notes to Physician:** Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations of hydrocarbon solvents (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.

#### SECTION 5: Firefighting measures

#### NFPA 704 Hazard Class

Health: 2 Flammability: 4 Instability: 0



0 (Minimal) 1 (Slight) 2 (Moderate) 3 (Serious) 4 (Severe)

**Extinguishing Media:** Dry chemical or carbon dioxide is recommended. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

#### Specific hazards arising from the chemical

**Unusual Fire & Explosion Hazards:** Extremely flammable Contents under pressure This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe) Vapors may travel considerable distances to a source of ignition where they can ignite, flash back, or explode. May create vapor/air

explosion hazard indoors, in confined spaces, outdoors, or in sewers. If container is not properly cooled, it can rupture in the heat of a fire. Drains can be plugged and valves made inoperable by the formation of ice if rapid evaporation of large quantities of the liquefied gas occurs. Do not allow run-off from fire fighting to enter drains or water courses – may cause explosion hazard in drains and may reignite.

**Hazardous Combustion Products:** Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of nitrogen and sulfur may also be formed.

**Special protective actions for fire-fighters:** For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective clothing. When the potential chemical hazard is unknown, in enclosed or confined spaces, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Stop spill/release if it can be done safely. If this cannot be done, allow fire to burn. Move undamaged containers from immediate hazard area if it can be done safely. Stay away from ends of container. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done safely.

#### See Section 9 for Flammable Properties including Flash Point and Flammable (Explosive) Limits

#### SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Extremely flammable Spillages of liquid product will create a fire hazard and may form an explosive atmosphere. Keep all sources of ignition and hot metal surfaces away from spill/release if safe to do so. The use of explosion-proof electrical equipment is recommended. Beware of accumulation of gas in low areas or contained areas, where explosive concentrations may occur. Prevent from entering drains or any place where accumulation may occur. Ventilate area and allow to evaporate. Stay upwind and away from spill/release. Avoid direct contact with material. For large spillages, notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Wear appropriate protective equipment, including respiratory protection, as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

**Environmental Precautions:** Stop and contain spill/release if it can be done safely. Water spray may be useful in minimizing or dispersing vapors. If spill occurs on water notify appropriate authorities and advise shipping of any hazard.

**Methods and material for containment and cleaning up:** Notify relevant authorities in accordance with all applicable regulations.

Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken.

#### SECTION 7: Handling and storage

**Precautions for safe handling:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use good personal hygiene practices and wear appropriate personal protective equipment (see section 8). Extremely Flammable. Contents under pressure Gas can accumulate in confined spaces and limit oxygen available for breathing. Use only with adequate ventilation The use of explosion-proof electrical equipment is recommended and may be required (see appropriate fire codes). Refer to NFPA-70 and/or API RP 2003 for specific bonding/grounding requirements. Electrostatic charge may accumulate and create a hazardous condition when handling or processing this material. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. Cold burns may occur during filling operations. Containers and delivery lines may become cold enough to present cold burn hazard.

Propane and odorant are heavier than air and will collect and pool along the ground or floor. Odorant, therefore, may not be detectable above the location of propane storage or service (for example, odorant in propane released or leaked into the basement of a dwelling may not be detected above the basement).

WARNING - The intensity of the odorant may fade over prolonged storage or in the presence of rust, when placed initially in new or freshly-cleaned storage vessels, or when exposed to masonry.

**Conditions for safe storage:** Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well-ventilated areas away from heat, direct sunlight, hot metal surfaces, and all sources of ignition. Store only in approved containers. Post area "No Smoking or Open Flame." Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage. Outdoor or detached storage is preferred. Indoor storage should meet OSHA standards and appropriate fire codes.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Avoid exposing any part of a compressed-gas cylinder to temperatures above 125F(51.6C). Gas cylinders should be stored outdoors or in well ventilated storerooms at no lower than ground level and should be quickly removable in an emergency.

#### SECTION 8: Exposure controls/personal protection

Chemical Name	ACGIH	OSHA	Mexico	Phillips 66
Propane		TWA-8hr: 1000 ppm		
		TWA-8hr: 1800 mg/m <sup>3</sup>		
Propene	TWA-8hr: 500 ppm		Carcinogen	
Butane	STEL: 1000 ppm		TWA-8hr: 800 ppm	
			(VLE-PPT)	
			TWA-8hr: 1900 mg/m <sup>3</sup>	
			(VLE-PPT)	
Isobutane	STEL: 1000 ppm			

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

**Engineering controls:** If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

**Eye/Face Protection:** The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary.

**Skin/Hand Protection:** Wear thermal insulating gloves and face shield or eye protection when working with materials that present thermal hazards (hot or cold).

**Respiratory Protection:** A NIOSH approved, self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode should be used in situations of oxygen deficiency (oxygen content less than 19.5 percent), unknown exposure concentrations, or situations that are immediately dangerous to life or health (IDLH).

A respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed whenever workplace conditions warrant a respirator's use.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

#### **SECTION 9: Physical and chemical properties**

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm). Data represent typical values and are not intended to be specifications.

Appearance: Colorless Physical Form: Liquefied Gas	Flash Point: -156 °F / -104 °C Test Method: Tag Closed Cup (TCC), ASTM D56
<b>Odor:</b> No distinct odor (or skunk, rotten egg or garlic if odorant added)	Initial Boiling Point/Range: -44 °F / -42 °C
Odor Threshold: No data	Vapor Pressure: 208 psia (Reid VP) @ 100°F / 37.8°C
pH: Not applicable	Partition Coefficient (n-octanol/water) (Kow): No data
Vapor Density (air=1): >1	Melting/Freezing Point: -309 °F / -189 °C
Upper Explosive Limits (vol % in air): 9.5	Auto-ignition Temperature: 842 °F / 450 °C
Lower Explosive Limits (vol % in air): 2.1	Decomposition Temperature: No data
Evaporation Rate (nBuAc=1): >1	Specific Gravity (water=1): 0.50-0.51 @ 60°F (15.6°C)
Particle Size: Not applicable	Bulk Density: No data
Percent Volatile: 100%	Viscosity: No data
Flammability (solid, gas): Extremely Flammable	Solubility in Water: Negligible

#### SECTION 10: Stability and reactivity

**Reactivity:** Not chemically reactive.

Chemical stability: Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions: Hazardous reactions not anticipated.

Conditions to avoid: Avoid all possible sources of ignition. Heat will increase pressure in the storage tank.

Incompatible materials: Avoid contact with acids, aluminum chloride, chlorine, chlorine dioxide, halogens and oxidizing agents.

Hazardous decomposition products: Not anticipated under normal conditions of use.

#### **SECTION 11: Toxicological information**

#### Information on Toxicological Effects

<b>•</b> • •	
Substance	/ Mixture

Acute Toxicity	Hazard	Additional Information	LC50/LD50 Data
Inhalation	Unlikely to be harmful	Simple Asphyxiant. May displace oxygen and cause rapid suffocation. See section 4 for more information.	>20,000 ppm (gas, estimated)
Dermal	Skin absorption is not anticipated		Not applicable
Oral	Ingestion is not anticipated		Not applicable

Aspiration Hazard: Not applicable

Skin Corrosion/Irritation: Not expected to be irritating. Contact with the liquefied or pressurized gas may cause frostbite ("cold" burn).

**Serious Eye Damage/Irritation:** Not expected to be irritating. Contact with the liquefied or pressurized gas may cause momentary freezing followed by swelling and eye damage.

Skin Sensitization: Skin contact is not anticipated.

Respiratory Sensitization: Not expected to be a respiratory sensitizer.

Specific Target Organ Toxicity (Single Exposure): Not expected to cause organ effects from single exposure.

Specific Target Organ Toxicity (Repeated Exposure): Not expected to cause organ effects from repeated exposure.

Carcinogenicity: Not expected to cause cancer.

Germ Cell Mutagenicity: Not expected to cause heritable genetic effects.

Reproductive Toxicity: Not expected to cause reproductive toxicity.

**Other Comments:** High concentrations may reduce the amount of oxygen available for breathing, especially in confined spaces. Hypoxia (inadequate oxygen) during pregnancy may have adverse effects on the developing fetus.

The odorant, ethyl mercaptan, can be irritating to the eyes, skin and respiratory tract. At high concentrations, a person can temporarily lose the ability to smell ethyl mercaptan. In addition, some individuals may have an impaired sense of smell, which inhibits the detection of the odorant.

#### Information on Toxicological Effects of Components

#### Propane

*Reproductive Toxicity:* No adverse reproductive or developmental effects were observed in rats exposed to propane; no observed adverse effect level = 12,000 ppm.

*Target Organ(s):* No systemic or neurotoxic effects were noted in rats exposed to concentrations of propane as high as 12,000 ppm for 28 days.

#### Butane

*Reproductive Toxicity:* No adverse reproductive or developmental effects were observed in rats exposed to butane; no observed adverse effect level = 12,000 ppm.

*Target Organ(s):* No systemic or neurotoxic effects were noted in rats exposed to concentrations of butane as high as 9,000 ppm for 28 days.

#### Isobutane

*Reproductive Toxicity:* No adverse developmental effects were observed in rats exposed to concentrations of isobutane as high as 9000 ppm. Fertility and mating indices may have been affected at 9000 ppm but no effects were observed at 3000 ppm (NOAEL).

*Target Organ(s):* No systemic or neurotoxic effects were noted in rats exposed to concentrations of isobutane as high as 9,000 ppm for 28 days.

#### SECTION 12: Ecological information

#### GHS Classification: No classified hazards

**Toxicity:** Petroleum gases will readily evaporate from the surface and would not be expected to have significant adverse effects in the aquatic environment.

**Persistence and Degradability:** The hydrocarbons in this material are expected to be inherently biodegradable. In practice, hydrocarbon gases are not likely to remain in solution long enough for biodegradation to be a significant loss process. Hydrogen sulfide, if present in refinery gas streams, will be rapidly oxidized in water and insoluble sulfides precipitated from water when metallic radicals are present.

**Bioaccumulative Potential:** Since the log Kow values measured for refinery gas constituents are below 3, they are not regarded as having the potential to bioaccumulate.

**Mobility in Soil:** Due to the extreme volatility of petroleum gases, air is the only environmental compartment in which they will be found. In air, these hydrocarbons undergo photodegradation by reaction with hydroxyl radicals with half-lives ranging from 3.2 days for n-butane to 7 days for propane.

#### Other adverse effects: None anticipated.

#### **SECTION 13: Disposal considerations**

This material is a gas and would not typically be managed as a waste.

#### **SECTION 14: Transport information**

#### U.S. Department of Transportation (DOT)

UN Number: 1978 or 1075 UN proper shipping name: Propane, Transport hazard class(es): 2.1 Packing Group: None Environmental Hazards: This product does not meet the DOT/UN/IMDG/IMO criteria of a marine pollutant Special precautions for user: For domestic transportation only, UN1075 may be substituted for the UN number shown as long as the substitution is consistent on package markings, shipping papers, and emergency response information. See 49 CFR 172.102 Special Provision 19. Containers of NON-ODORIZED liquefied petroloum gas must be marked either NON-ODORIZED or NOT-ODORIZED as of

Containers of NON-ODORIZED liquefied petroleum gas must be marked either NON-ODORIZED or NOT ODORIZED as of September 30, 2006. [49 CFR 172.301(f), 326(d), 330(c) and 338(e)]

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

#### SECTION 15: Regulatory information

#### CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs (in pounds)

This material does not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.

#### CERCLA/SARA - Section 311/312 (Title III Hazard Categories)

US EPA has published a final rule aligning hazardous chemical reporting under sections 311 and 312 of the Emergency Planning and Community Right-to-Know Act (EPCRA) with OSHA HCS. See Section 2 for hazard classifications under EPCRA.

#### CERCLA/SARA - Section 313 and 40 CFR 372

This material contains the following chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372:

Chemical Name	Concentration <sup>1</sup>	de minimis
Propene	<20	1.0%

#### EPA (CERCLA) Reportable Quantity (in pounds)

EPA's Petroleum Exclusion applies to this material - (CERCLA 101(14)).

#### **California Proposition 65**

WARNING: Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm are created by the combustion of propane. For more information go to www.P65Warnings.ca.gov.

#### International Inventories

All components are either listed on the US TSCA Inventory, or are not regulated under TSCA. All components are either on the DSL, or are exempt from DSL listing requirements.

#### **SECTION 16: Other information**

Issue Date:	Previous Issue Date:
2/12/2018	03/20/2017

#### **Revised Sections or Basis for Revision:**

Intended Use (Section 1)

#### **Guide to Abbreviations:**

ACGIH = American Conference of Governmental Industrial Hygienists; CASRN = Chemical Abstracts Service Registry Number; CEILING = Ceiling Limit (15 minutes); CERCLA = The Comprehensive Environmental Response, Compensation, and Liability Act; EPA = Environmental Protection Agency; GHS = Globally Harmonized System; HPR = Hazardous Products Regulations; IARC = International Agency for Research on Cancer; INSHT = National Institute for Health and Safety at Work; IOPC = International Oil Pollution Compensation; LEL = Lower Explosive Limit; NE = Not Established; NFPA = National Fire Protection Association; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit (OSHA); SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit (15 minutes); TLV = Threshold Limit Value (ACGIH); TWA = Time Weighted Average (8 hours); UEL = Upper Explosive Limit; WHMIS = Worker Hazardous Materials Information System (Canada)

#### **Disclaimer of Expressed and implied Warranties:**

The information presented in this Safety Data Sheet is based on data believed to be accurate as of the date this Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

### MATERIAL SAFETY DATA SHEET

QUAKER STATE FCI INDUSTRIAL GEAR OIL ISO - ALL GRADES

#### 1. PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: 15140 Version Date: 6/22/00

**Product Name:** QUAKER STATE FCI INDUSTRIAL GEAR OIL ISO - ALL GRADES **Product Use:** Gear oil **Synonyms:** ISO 68, 100, 150, 220, 320, 460, 680

#### Manufacturer

Pennzoil-Quaker State Company P.O.Box 2967 Houston, TX 77252 USA Phone Numbers Medical Emergency: 1-800-546-6040 Transportation Emergency (USA): 1-800-468-1263 Transportation Emergency (International): 1-352-323-3500 (Call Collect) MSDS Assistance: 1-800-546-6227 Fax On Demand: 1-800-546-6227 Technical Assistance: 1-800-458-4998 Customer Service: 1-800-468-8397 Fax Number: 713-217-3181 Internet Address: www.MSDS.PZLQS.com

#### 2. COMPONENT INFORMATION

Component	CAS No.	Weight Percent	Hazardous
		Range	in Blend
SOLVENT-REFINED RESIDUAL OILS	64742-01-4	< 95	No
SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	< 95	No
DISTILLATE			
HYDROTREATED HEAVY PARAFFINIC	64742-54-7	< 95	No
PETROLEUM DISTILLATES			
ACID TREATED HEAVY NAPHTHENIC	64742-18-3	< 95	No
DISTILLATE			
EXTREME PRESSURE ADDITIVE	TRADESECRET	1 - 5	No

This product is NOT HAZARDOUS according to OSHA 29 CFR 1910.1200.

Other: No information available

#### **3.HAZARDS IDENTIFICATION**

#### **Emergency and Hazards Overview**

CAUTION: Contains petroleum lubricant. Prolonged or repeated skin contact may cause skin irritation. Spills may create a slipping hazard.

ATTENTION: Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3) can result in accumulation of oil droplets in pulmonary tissue.

NFPA Ratings:	Health	1	Flammability	1	Reactivity	0

 Primary Route of Exposure:
 Skin
 X
 Inhalation
 Eye

#### **Health Effect Information**

**Eye Contact:** This product is practically non-irritating to the eyes upon direct contact. Based on testing of similar products and/or components.

Skin Contact: Avoid skin contact. This product may cause slight skin irritation upon direct contact. Based on testing of similar products and/or components. Prolonged or repeated contact may result in contact dermatitis which is characterized by dryness, chapping, and reddening. Prolonged or repeated contact may result in oil acne which is characterized by blackheads with possible secondary infection. See Section 11 - Toxicological Information.

- **Inhalation:** This product has a low vapor pressure and is not expected to present an inhalation hazard at ambient conditions. Caution should be taken to prevent aerosolization or misting of this product. On rare occasions, prolonged and repeated exposure to oil mist poses a risk of pulmonary disease such as chronic lung inflammation. Signs of respiratory effects vary with concentration and length of exposure and include nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty breathing. Shortness of breath and cough are the most common symptoms.
- **Ingestion:** Do not ingest. This product is relatively non-toxic by ingestion. This product has laxative properties and may result in abdominal cramps and diarrhea. Exposure to a large single dose, or repeated smaller doses, may lead to lung aspiration, which can lead to lipid pneumonia or chronic lung inflammation. These are low-grade, chronic localized tissue reactions. See Section 11 Toxicological Information.
- Medical Conditions Aggravated by Exposure: Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

**Other:** No information available.

#### 4. FIRST AID INFORMATION

- **Eye Contact:** Immediately flush eyes with large amounts of water and continue flushing until irritation subsides. If material is hot, treat for thermal burns and seek immediate medical attention.
- **Skin Contact:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. If material is hot, submerge injured area in cold water. If victim is severely burned, remove to a hospital immediately.
- **Inhalation:** This material has a low vapor pressure and is not expected to present an inhalation exposure at ambient conditions.
- **Ingestion:** Do not induce vomiting. No treatment is necessary under ordinary circumstances. If victim exhibits signs of lung aspiration such as coughing or choking, seek immediate medical assistance.

Notes to Physician: No information available

Other: No information available.

#### 5. FIRE AND EXPLOSION INFORMATION

Flammable Properties Flash Point: >450 F, >232.2 C Flammable Limits in Air Upper Percent: No data available Lower Percent: No data available Autoignition Temperature: No data available

Test Method: ASTM D-92 (C.O.C.)

Test Method: No information available

NFPA Classification: Class III-B combustible liquid

Extinguishing Media: Use dry chemical, foam, or carbon dioxide.

#### **Fire Fighting Measures**

**Special Fire Fighting Procedures and Equipment:** Water may be ineffective but can be used to cool containers exposed to heat or flame to prevent vapor pressure buildup and possible container rupture. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

**Unusual Fire and Explosion Conditions:** Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.

#### Hazardous Combustion By-Products: None

Other: No information available.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personnel Safeguards:** Consult Health Effect Information in Section 3, Personal Protection Information in Section 8, Fire and Explosion Information in Section 5, and Stability and Reactivity Information in Section 10.

Regulatory Notifications: Notify appropriate authorities of spill.

**Containment and Clean up:** Contain spill immediately. Do not allow spill to enter sewers or watercourses. Absorb with appropriate inert material such as sand, clay, etc. Large spills may be picked up using vacuum pumps, shovels, buckets, or other means and placed in drums or other suitable containers.

Other: No information available.

#### 7. HANDLING AND STORAGE INFORMATION

- Handling: Fire extinguishers should be kept readily available. See NFPA 30 and OSHA 1910.106--Flammable and Combustible Liquids.
- **Storage:** Do not transfer to unmarked containers. Store in closed containers away from heat, sparks, open flame, or oxidizing materials.

#### **Empty Container Warnings**

**Drums:** Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed. Empty containers retain product residue and can be dangerous.

Plastic: No information available

Other: No information available.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

#### **Exposure Limits and Guidelines**

This product does not contain any components with OSHA or ACGIH exposure limits.

#### **Personal Protective Equipment**

**Eye/Face Protection:** Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.

- **Skin Protection:** No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. If handling hot material, use insulated protective clothing (boots, gloves, aprons, etc.). Launder soiled clothes. Properly dispose of contaminated leather articles including shoes, which cannot be decontaminated.
- **Respiratory Protection:** Respiratory protection is not required under conditions of normal use. If vapor or mist is generated when the material is heated or handled, use an organic vapor respirator with a dust and mist filter. All respirators must be NIOSH certified. Do not use compressed oxygen in hydrocarbon atmospheres.
- **Personal Hygiene:** Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

#### **Engineering Controls / Work Practices**

- **Ventilation:** If vapor or mist is generated when the material is heated or handled, adequate ventilation in accordance with good engineering practice must be provided to maintain concentrations below the specified exposure or flammable limits.
- **Other:** The OSHA permissible exposure limit (PEL) and ACGIH threshold limit value (TLV) for oil mist is 5 mg/m3. The ACGIH short-term exposure limit (STEL) for oil mist is 10 mg/m3.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear - amber			
Odor: Petroleum	Vapor Pressure: No data available		
Physical state: Liquid	Vapor Density (air=1): No data available		
<b>pH:</b> No data available	Percent Volatile by Volume: No data available		
Boiling Point: No data available	Volatile Organic Content: No data available		
Melting Point: No data available	Molecular Weight: No data available		
<b>Specific Gravity:</b> 89 @ 16 C / 60 F	Average Carbon Number: No data available		
<b>Pour Point:</b> > 5 F, -15 C	Viscosity @ 100 F: No data available		
	Viscosity @ 40 C: No data available		
Solubility in Water: Negligible in water			
<b>Octanol / Water Coefficient: Log <math>K_{ow}</math> = No data available</b>			

#### 10. STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable

Conditions to Avoid: High heat and open flames.

Incompatible Materials to Avoid: May react with strong oxidizing agents.

Other: No information available.

#### 11. TOXICOLOGICAL INFORMATION

Primary Eye Irritation: No information available

Primary Skin Irritation: No information available

#### **MATERIAL SAFETY DATA SHEET** QUAKER STATE FCI INDUSTRIAL GEAR OIL ISO - ALL GRADES

Acute Dermal Toxicity: No information available

Subacute Dermal Toxicity: No information available

Dermal Sensitization: No information available

Inhalation Toxicity: No information available

Inhalation Sensitization: No information available

- Oral Toxicity: No information available
- Mutagenicity: No information available
- **Carcinogenicity:** The International Agency for Research on Cancer (IARC) has concluded that highly refined mineral oils are Group 3 substances, "not classifiable as to their carcinogenicity to humans," based on inadequate human and inadequate animal evidence.

Reproductive and Developmental Toxicity: No information available

Teratogenicity: No information available

Immunotoxicity: No information available

Neurotoxicity: No information available

Other: No information available.

#### **12. ECOLOGICAL INFORMATION**

Aquatic Toxicity: No information available

Terrestrial Toxicity: No information available

Chemical Fate and Transport: No information available

**Other:** No information available.

#### 13. DISPOSAL INFORMATION

- **Regulatory Information:** All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Caution! If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.
- Waste Disposal Methods: Waste material may be landfilled or incinerated at an approved facility. Materials should be recycled if possible.

Other: No information available.

#### 14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (DOT) Highway / Rail (Bulk): Not Regulated Highway / Rail (Non-Bulk): Not Regulated

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.

**International Information** 

 Vessel: IMDG Regulated:
 IMDG Not Regulated:
 X

 Air:
 ICAO Regulated:
 X

Other: No information available

**15. Regulatory Information** 

<u>Regulatory Lists Searched</u>: The components listed in Section 2 of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

**Health & Safety:** 10 - IARC carcinogen, 11 - NTP carcinogen, 12 - OSHA carcinogen, 15 - ACGIH TLV, 16 - OSHA PEL, 17 - NIOSH exposure limit, 20 - US DOT Appendix A, Hazardous substances, 21 - USDOT Appendix B, Marine pollutants, 22 - FDA 21 CFR Total food additives, 23 - NFPA 49 or 325

**Environmental:** 30 - CAA 1990 Hazardous air pollutants, 31 - CAA Ozone depletors, 33 - CAA HON rule, 34 - CAA Toxic substance for accidental release prevention, 35 - CAA Volatile organic compounds (VOC's) in SOCMI, 41 - CERCLA / SARA Section 302 extremely hazardous substances, 42 - CERCLA / SARA Section 313 emissions reporting, 43 - CWA Hazardous substances, 44 - CWA Priority pollutants, 45 - CWA Toxic pollutants, 46 - EPA Proposed test rule for hazardous air pollutants, 47 - RCRA Basis for listing - Appendix VII, 48 - RCRA waste, 49 - SDWA - (S)MCLs

**International:** 50 - Canada - WHMIS Classification of substance, 54 - Mexico - Drinking water - ecological criteria, 55 - Mexico - Wastewater discharges, 56 - US -TSCA Section (12)(b) - export notification

**State Lists:** 60 - CA - Proposition 65, 61 - FL - Substances, 62 - MI - Critical materials, 63 - MA - RTK, 64 - MA - Extraordinarily hazardous substances, 65 - MN - Hazardous substances, 66 - PA - RTK, 67 - NJ - RTK, 68 - NJ - Environmental hazardous substances, 69 - NJ - Special hazardous substances

**Inventories:** 80 - Canada - Domestic substances, 81 - European - EINECS, 82 - Japan - ENCS, 83 - Korea - Existing and evaluated chemical substances, 84 - US - TSCA

#### **Regulatory Search Results:**

ACID TREATED HEAVY NAPHTHENIC DISTILLATE: 63, 64, 80, 81, 83, 84 HYDROTREATED HEAVY PARAFFINIC PETROLEUM DISTILLATES: 80, 81, 83, 84 SOLVENT-DEWAXED HEAVY PARAFFINIC DISTILLATE: 80, 81, 83, 84 SOLVENT-REFINED RESIDUAL OILS: 80, 81, 83, 84

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory.

**SARA Section 313:** This product is not known to contain any SARA, Title III, Section 313 Reportable Chemicals at or greater than 1.0% (0.1% for carcinogens).

IARC: No information available

 SARA 311 / 312 Categories

 Acute:
 Chronic:
 Fire:
 Pressure:
 Reactive:

 Not Regulated:
 X

Canadian WHMIS Classification Not a controlled substance under WHMIS

European Union Classification Hazard Symbols: No classification recommended Risk Phrases: No classification recommended Safety Phrases: No classification recommended

**Other:** No information available

#### **16. OTHER INFORMATION**

#### Health and Environmental Label Language

CAUTION: Contains Petroleum Lubricant. Prolonged or repeated skin contact may cause skin irritation.

ATTENTION: Repeated exposure to oil mist in excess of the OSHA limit (5mg/m3) can result in accumulation of oil droplets in pulmonary tissue.

PRECAUTIONARY MEASURES: Avoid excessive & prolonged skin contact. Wash thoroughly after handling. Avoid generation and inhalation of oil mists.

INSTRUCTIONS IN CASE OF FIRE OR SPILL: In case of fire, use water spray, foam, dry chemical or carbon dioxide. Water spray may be ineffective, but can be used to cool containers. In case of spill, do not use water, soak up with absorbent material.

DON'T POLLUTE, CONSERVE RESOURCES, RETURN USED OIL TO COLLECTION CENTER.

#### **MSDS Revisions**

**Previous Version Date:** 4/7/97

Previous Version Information: Revised all sections, new 16 section MSDS format.

Other: No information available

#### **Prepared By:**

Pennzoil-Quaker State Company Environmental, Safety, Health, & DOT Compliance P. O. Box 2967 Houston, TX 77252-2967 USA

**Disclaimer of Warranty:** The information contained herein is based upon data and information available to us, and reflects our best professional judgement. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, Pennzoil-Quaker State Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent. Since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.

### Page 1 of 4 RAID<sup>®</sup> FLYING INSECT KILLER

#### Date Issued: 16Jan2007

#### Supersedes: 16Jan2004

US MANUFACTURER : CANADIAN MANUFACTURER: S.C. Johnson & Son, Inc. S.C. Johnson and Son, Limited Phone: (800) 725-6737 Phone: (800) 725-6737 Racine, Wisconsin 53403-2236 1 Webster Street Emergency Phone: (866) 231-5406 Brantford, Ontario N3T 5R1 International Emergency Phone: Transportation Emergency: (952) 852-4647 CANUTEC (collect) (613) 996-6666 Poison Control: (866) 231-5406 HAZARD RATING HMIS HAZARD NFDA DISTOTOTOTOTO IN CANADA DV

	111120	THE ACT OF	NFFA	DISTRIBUTED IN CANADA BY:
				S.C. Johnson and Son, Limited
4-Very High	1	Health	1	Phone: (800) 725-6737
3-High	4	Flammability	4	1 Webster Street
2-Moderate	0	Reactivity	0	Brantford, Ontario N3T 5R1
1-Slight		Special		
0-Insignificant		•		

### ------ SECTION 1 - PRODUCT IDENTIFICATION -----

PRODUCT NAME..... RAID<sup>®</sup> FLYING INSECT KILLER PRODUCT USE..... Insecticide

UPC	SCJ CODE		 CANADIAN SIZE
62300 01735		12	 

------ SECTION 2 - INGREDIENT INFORMATION -----

INGREDIENT	WEIGHT &	EXPOSURE LIMIT/TOXICITY
Tetramethrin (CAS# 7696-12-0) D-cis, trans allethrin (CAS# 584-79-2)	0.07 0.14	NOT ESTABLISHED NOT ESTABLISHED LD50: 900 mg/kg (oral-rat) ; 2,660 mg/kg (dermal-rabbit) LC50: ; >3,875 mg/m3
Piperonyl butoxide (CAS# 51-03-6)		(inhalation-rat) NOT ESTABLISHED LD50: 6,150 mg/kg (oral-rat)
N-octyl bicycloheptene dicarboximide (CAS# 113-48-4)		NOT ESTABLISHED LD50: 4,980 mg/kg (oral-rat) ; >2,000 mg/kg (dermal-rabbit) LC50: 4.08 mg/l (rat)
Propane (CAS# 74-98-6)		1000 ppm OSHA PEL , 2500 ppm ACGIH TWA
Isobutane (CAS# 75-28-5) Water (CAS# 7732-18-5)	20-30 60-80	NOT ESTABLISHED NOT ESTABLISHED

------ SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11) ------

 ROUTE (S) OF ENTRY.....
 Inhalation.

 EFFECTS OF ACUTE EXPOSURE:

 EYE.....
 May cause: Mild eye irritation.

 SKIN.....
 None known.

 INHALATION.....
 None known.

 INGESTION.....
 May be harmful if swallowed.

 MEDICAL CONDITIONS....
 None known.

 GENERALLY RECOGNIZED
 AS BEING AGGRAVATED

 BY EXPOSURE
 BY EXPOSURE

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# **RAID® FLYING INSECT KILLER**

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SECTION 4 - FI	RST AID MEASURES
EYE CONTACT	Rinse with plenty of water. If irritation persists, get medical attention.
SKIN CONTACT	Wash contaminated area with water and scap. No special requirements.
INGESTION	Seek immediate medical attention.
SECTION 5 - FI	RE AND EXPLOSION INFORMATION
FLAMMABLE LIMITS	
AUTOIGNITION	
EXTINGUISHING MEDIA	Foam. CO2. Dry chemical. Water fog. Fight fire from maximum distance or protected area. Cool and use
PROCEDURES	caution when approaching or handling fire-exposed containers. Fire fighters should wear self-contained breathing apparatus and
	protective clothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS	Aerosol product - Containers may rocket or explode in heat of fire.
SECTION 6 - P	REVENTIVE RELEASE MEASURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Dike large spills. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize.
SECTION 7 - H	ANDLING AND STORAGE
PRECAUTIONARY INFORMATION	Keep out of reach of children. Cover fish bowls and remove animals for one hour when spraying rooms in the home, lawn or garden area, barn or stable. Avoid inhalation. Cover food and food utensils. Do not apply to humans or animals. Use with caution around young plants and new growth. CONTENTS UNDER PRESSURE. Do not use near open fire, flames or heat. Do not puncture or incinerate. Do not store at temperatures above 120 °F (50 °C). Ventilate enclosed areas before returning.
OTHER HANDLING AND STORAGE CONDITIONS	
SECTION 8 - S	PECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION. VENTILATION	If ventilation is adequate, respiratory protection not required. General room ventilation adequate.
PROTECTIVE GLOVES	No special requirements under normal use conditions.
EYE PROTECTION OTHER PROTECTIVE MEASURES	
SECTION 9 - P	HYSICAL AND CHEMICAL PROPERTIES
COLOR	Opaque

COLOR	
PRODUCT STATE	Dispensed as a spray mist.
ODOR	
рН	Not available.

MATERIAL SAFETY DATA SHEET

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------ SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (continued) ------

ODOR THRESHOLD SOLUBILITY IN WATER	Not available. Appreciable
SPECIFIC GRAVITY	0.804
(H2O=1)	
VAPOR DENSITY (AIR=1)	Not available.
EVAPORATION RATE (BUTYL	Not available.
ACETATE=1)	
VAPOR PRESSURE (mm HG).	Not available.
BOILING POINT	Not available.
FREEZING POINT	Not available.
COEFFICIENT OF	Not available.
WATER/OIL	
PERCENT VOLATILE BY	Not available.
VOLUME (%)	
VOLATILE ORGANIC	Not available.
COMPOUND (VOC)	
THEORETICAL VOC	Not available.
(LB/GAL)	

## ------ SECTION 10 - STABILITY AND REACTIVITY -----

STABILITY	
STABILITY - CONDITIONS.	None known.
TO AVOID	
INCOMPATIBILITY	None known.
HAZARDOUS DECOMPOSITION PRODUCTS	When exposed to fire: Produces normal products of combustion.
HAZARDOUS	Will not occur.
HAZARDOUS POLYMERIZATION - CONDITIONS TO AVOID	None known.

# ------ SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3) ------

LD50 (ACUTE ORAL TOX) LD50 (ACUTE DERMAL TOX) LC50 (ACUTE INHALATION. TOX)	Greater than 5000 mg/kg (rats) Estimated to be greater than 2000 mg/kg. Not available.
EFFECTS OF CHRONIC EXPOSURE	None known.
SENSITIZATION CARCINOGENICITY REPRODUCTIVE TOXICITY TERATOGENICITY MUTAGENICITY	None known. None known. None known.

## ------ SECTION 12 - ECOLOGICAL INFORMATION ------

ENVIRONMENTAL DATA..... Not available.

MATERIAL	SAFETY	DATA	SHEET
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------ SECTION 13 - DISPOSAL CONSIDERATIONS ------If possible, recycle empty aerosol can to nearest steel WASTE DISPOSAL recycling center. Use up package or give to someone who can. INFORMATION ------ SECTION 14 - TRANSPORTATION INFORMATION ------US DOT INFORMATION ..... Please refer to the Bill of Lading/receiving documents for up-to-date shipping information. CANADIAN SHIPPING NAME. RAID® FLYING INSECT KILLER TDG CLASSIFICATION..... Not applicable. PIN/NIP..... Not applicable. PACKING GROUP...... Not applicable. EXEMPTION NAME...... Consumer commodity ------ SECTION 15 - REGULATORY INFORMATION -----WHMIS CLASSIFICATION... REGULATED UNDER P.C.P. #16063 All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. All ingredients in this product comply with the New Substances Notification requirements under the Canadian Environmental Protection Act (CEPA). This product is not subject to the reporting requirements under California's Proposition 65. ----- SECTION 16 - OTHER INFORMATION ------ADDITIONAL INFORMATION. NFPA 30B Level 1 Aerosol. 4822-284 EPA REGISTRATION #.... ------ PREPARATION INFORMATION ------PREPARED BY ..... Manufacturer's Technical Support Department. Refer to page 1

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(Manufacturer) for contact information.

according to Hazard Communication Standard; 29 CFR 1910.1200



### RAID® FLYING INSECT KILLER 7 (COUNTRY FRESH)

Version 1.0

Print Date 03/04/2015

Revision Date 02/25/2015

SDS Number 350000016860

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product information		
Product name	:	RAID® FLYING INSECT KILLER 7 (COUNTRY FRESH)
Recommended use	:	Insecticide
Manufacturer, importer, supplier	:	S.C. Johnson & Son, Inc. 1525 Howe Street Racine WI 53403-2236
Telephone Emergency telephone number	:	+18005585252 24 Hour Medical Emergency Phone: (866)231-5406 24 Hour International Emergency Phone: (703)527-3887 24 Hour Transport Emergency Phone: (800)424-9300

#### 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

#### **Globally Harmonized System (GHS) Classification**

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 2	Flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

#### Labelling

Hazard symbols Flame Gas cylinder

### Signal word

Warning

#### Hazard statements

Flammable aerosol. Contains gas under pressure; may explode if heated.

#### **Precautionary statements**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Protect from sunlight. Store in a well-ventilated place. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

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Other hazards

: None identified

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	10.00 - 30.00
Butane	106-97-8	5.00 - 10.00
Propane	74-98-6	5.00 - 10.00
Isobutane	75-28-5	5.00 - 10.00
d-Phenothrin	188023-86-1	0.10 - 1.00
Prallethrin	23031-36-9	0.10 - 1.00

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

#### **4. FIRST AID MEASURES**

Eye contact	: No special requirements
Skin contact	: No special requirements
Inhalation	: No special requirements.
Ingestion	: No special requirements

#### **5. FIREFIGHTING MEASURES**

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Specific hazards during firefighting	:	Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed

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	containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.
NFPA Classification	: NFPA Level 1 Aerosol
ACCIDENTAL RELEASE MEA	SURES
Personal precautions	: Remove all sources of ignition. Wear personal protective equipment. Wash thoroughly after handling.
Environmental precautions	<ul> <li>Do not flush into surface water or sanitary sewer system.</li> <li>Use appropriate containment to avoid environmental contamination.</li> <li>Outside of normal use, avoid release to the environment.</li> </ul>
Methods and materials for containment and cleaning up	<ul> <li>If damage occurs to aerosol can: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Use only non-sparking equipment. Dike large spills. Clean residue from spill site.</li> </ul>
HANDLING AND STORAGE	
Handling	
Precautions for safe handling	<ul> <li>Avoid contact with skin, eyes and clothing. Do not enter places where used or stored until adequately ventilated.</li> <li>For personal protection see section 8. Use only as directed.</li> <li>KEEP OUT OF REACH OF CHILDREN AND PETS.</li> <li>Pressurized container.</li> <li>Do not pierce or burn, even after use.</li> </ul>
Advice on protection against fire and explosion	: Keep away from sources of ignition - No smoking. Do not spray on an open flame or other ignition source.

according to Hazard Communication Standard; 29 CFR 1910.1200



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#### Storage

Requirements for storage areas and containers : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep away from food, drink and animal feedingstuffs. Keep in a dry, cool and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Occupational Exposure Limits**

Components	CAS-No.	mg/m3	ppm	Non- standard units	Basis
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL

#### Personal protective equipment

Respiratory protection	:	Do not spray in enclosed areas.
Hand protection	:	No special requirements.
Eye protection	:	No special requirements.
Skin and body protection	:	No special requirements.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety

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practice. Wash thoroughly after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: aerosol	
Color	: natural colour	
Odor	: pleasant mild	
Odour Threshold	: No data available	
рН	: 7.0	
Melting point/freezing point	: No data available	
Initial boiling point and boiling range	: 225 °C	
Flash point	: -7 °C 19.4 °F Propellant	
Evaporation rate	: No data available	
Flammability (solid, gas)	: No data available	
Upper/lower flammability or explosive limits	: No data available	
Vapour pressure	: No data available	
Vapour density	: No data available	

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Relative density Solubility(ies)	: 0.82 g/cm3 : dispersible
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	:
Viscosity, dynamic	: No data available
Viscosity, kinematic	: Not applicable
Oxidizing properties	: No data available
Volatile Organic Compounds Total VOC (wt. %)*	<ul> <li>19.1 % - additional exemptions may apply</li> <li>*as defined by US Federal and State Consumer Product Regulations</li> </ul>
Other information	: None identified :
10. STABILITY AND REACTIVITY	
Possibility of hazardous reactions	: If accidental mixing occurs and toxic gas is formed, exit area immediately. Do not return until well ventilated.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents Do not mix with bleach or any other household cleaners. Strong bases

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# Hazardous decomposition<br/>products: Thermal decomposition can lead to release of irritating gases<br/>and vapours.

## 11. TOXICOLOGICAL INFORMATION

Emergency Overview	:	Warning
Acute oral toxicity	:	LD50 Measured > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 Measured > 5.05 mg/l
Acute dermal toxicity	:	LD50 Measured

> 5,000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-
Specific target organ toxicity - repeated	No classification proposed	-

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exposure		
Aspiration hazard	No classification proposed	-

Aggravated Medical : None known. Condition

## **12. ECOLOGICAL INFORMATION**

**Product :** The product itself has not been tested.

## Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

## **Toxicity to fish**

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h
Butane	No data available			
Propane	LC50	Fish	27.98 mg/l	96 h
Isobutane	LC50	Fish	27.98 mg/l	96 h
d-Phenothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.0027 mg/l	96 h
	NOEC	Oncorhynchus mykiss (rainbow trout)	> 0.0011 mg/l	90 d
Prallethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.012 mg/l	96 h

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## Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	EC50 No data available		> 3,193 mg/l	48 h
Butane	No data available			
Propane	LC50	Daphnid	14.22 mg/l	48 h
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
d-Phenothrin	EC50	Daphnia (water flea)	0.0043 mg/l	48 h
	NOEC	Daphnia (water flea)	0.00062 mg/l	21 d
Prallethrin	EC50	Daphnia magna (Water flea)	0.0062 mg/l	48 h

## Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-	EC50	Skeletonema costatum	3,198 mg/l	72 h

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alkanes, isoalkanes, cyclics, <2% aromatics				
Butane	No data available			
Propane	No data available			
Isobutane	EC50	Green algea	8.57 mg/l	96 h
d-Phenothrin	EbC50 No data available		> 0.011 mg/l	72 h
Prallethrin	No data available	Pseudokirchneriella subcapitata (green algae)	2 mg/l	96 h

## Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	No data available		
Butane	100 %	385.5 h	Readily biodegradable
Propane	70 %	< 10 d	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
d-Phenothrin	1 %	28 d	Not readily biodegradable.
Prallethrin	No data available		Not readily biodegradable.

## **Bioaccumulative potential**

Component	Bioconcentration factor (BCF)	Partition Coefficient n- Octanol/water (log)
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	No data available	No data available
Butane	No data available	2.89
Propane	No data available	2.36
Isobutane	1.57 - 1.97	2.8

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d-Phenothrin	2,506 - 3,192 Measured	6.8
Prallethrin	No data available	4.49

## Mobility

Component	End point	Value
Hydrocarbons, C14-C18, n- alkanes, isoalkanes, cyclics, <2% aromatics	No data available	-
Butane	No data available	
Propane	No data available	
Isobutane	No data available	
d-Phenothrin	Кос	125893
Prallethrin	No data available	

## PBT and vPvB assessment

Component	Results
Butane	Not fulfilling PBT and vPvB criteria
Propane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria
d-Phenothrin	Not fulfilling PBT and vPvB criteria
Prallethrin	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

## **13. DISPOSAL CONSIDERATIONS**

## PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label. Consumer may discard empty container in trash, or recycle where facilities exist. according to Hazard Communication Standard; 29 CFR 1910.1200



## **RAID® FLYING INSECT KILLER 7 (COUNTRY FRESH)**

Version 1.0

Print Date 03/04/2015

Revision Date 02/25/2015

SDS Number 350000016860

## 14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper	AEROSOLS,	AEROSOLS,	AEROSOLS,
shipping name	Flammable, 2.1	Flammable, 2.1	Flammable, 2.1
Transport hazard	2.1	2	2.1
class(es)			
Packing group	-	-	-
Environmental	-	-	-
hazards			
Special	Limited quantities	Limited quantities	Limited quantities
precautions for	derogation may be	derogation may be	derogation may be
user	applicable to this	applicable to this	applicable to this
	product, please check	product, please	product, please check
	transport documents.	check transport	transport documents.
		documents.	

## **15. REGULATORY INFORMATION**

Notification status	:	All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
California Prop. 65	:	This product is not subject to the reporting requirements under California's Proposition 65.

according to Hazard Communication Standard; 29 CFR 1910.1200



## RAID® FLYING INSECT KILLER 7 (COUNTRY FRESH)

Version 1.0

Print Date 03/04/2015

Revision Date 02/25/2015

SDS Number 350000016860

## 16. OTHER INFORMATION

HMIS Ratings	
Health	2
Flammability	4
Reactivity	0

NFPA Ratings		
Health	2	
Fire	4	
Reactivity	0	
Special	-	

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

## Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment &
	Regulatory Affairs (GSARA)

according to Hazard Communication Standard; 29 CFR 1910.1200



## **RAID® FLYING INSECT KILLER 7 (COUNTRY FRESH)**

Version 1.0

Revision Date 02/25/2015

Print Date 03/04/2015

SDS Number 350000016860

## PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

# **Material Safety Data Sheet**

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

## CHEVRON DELO®EXTENDED LIFE PREDILUTED 50/50 COOLANT/ANTIFREEZE

Product Use: Antifreeze/Coolant

Product Number(s): CPS227811

## **Company Identification**

**Chevron Products Company** 

a division of Chevron U.S.A. Inc.

6001 Bollinger Canyon Rd.

San Ramon, CA 94583

United States of America

www.chevronlubricants.com

## **Transportation Emergency Response**

CHEMTREC: (800) 424-9300 or (703) 527-3887

## **Health Emergency**

Chevron Emergency Information Center: Located in the USA. International collect calls accepted. (800) 231-0623 or (510) 231-0623

## **Product Information**

email : lubemsds@chevron.com

Product Information: (800) LUBE TEK

MSDS Requests: (800) 414-6737

## SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Ethylene Glycol	107-21-1	40 - 50 %weight
Diethylene glycol	111-46-6	1 - 5 %weight
Sodium 2-ethylhexanoate	19766-89-3	1 - 5 %weight

## SECTION 3 HAZARDS IDENTIFICATION



## **EMERGENCY OVERVIEW**

- HARMFUL OR FATAL IF SWALLOWED

- CONTAINS MATERIAL THAT MAY CAUSE ADVERSE REPRODUCTIVE EFFECTS BASED ON ANIMAL DATA

- POSSIBLE BIRTH DEFECT HAZARD - CONTAINS MATERIAL THAT MAY CAUSE BIRTH DEFECTS BASED ON ANIMAL DATA

- CAUSES DAMAGE TO:

- KIDNEY

## IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

**Skin:** Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin.

Ingestion: Toxic; may be harmful or fatal if swallowed.

**Inhalation:** The vapor or fumes from this material may cause respiratory irritation. Symptoms of respiratory irritation may include coughing and difficulty breathing. Breathing this material at concentrations above the recommended exposure limits may cause central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion, or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors or convulsions, loss of consciousness, coma or death.

## DELAYED OR OTHER HEALTH EFFECTS:

**Reproduction and Birth Defects:** Contains material that may cause adverse reproductive effects if swallowed based on animal data.Contains material that may cause birth defects based on animal data.

Target Organs: Contains material that causes damage to the following organ(s) if swallowed: Kidney

See Section 11 for additional information. Risk depends on duration and level of exposure.

## SECTION 4 FIRST AID MEASURES

**Eye:** No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.

**Skin:** No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.

**Ingestion:** If swallowed, get immediate medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Inhalation:** Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue. Move the exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if breathing difficulties continue or if any other symptoms develop.

## **SECTION 5 FIRE FIGHTING MEASURES**

## FIRE CLASSIFICATION:

OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 2 Flammability: 0 Reactivity: 0

## FLAMMABLE PROPERTIES:

Flashpoint: Not Applicable

Autoignition: No Data Available

Flammability (Explosive) Limits (% by volume in air): Lower: Not Applicable Upper: Not Applicable

EXTINGUISHING MEDIA: Dry Chemical, CO2, AFFF Foam or alcohol resistant foam.

## **PROTECTION OF FIRE FIGHTERS:**

Fire Fighting Instructions: This material will not burn.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Spill Management:** Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

**Reporting:** Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

## SECTION 7 HANDLING AND STORAGE

**Precautionary Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Wash thoroughly after handling.

**General Handling Information:** Do not taste or swallow antifreeze or solution. Keep out of the reach of children and animals.

General Storage Information: Do not store in open or unlabeled containers.

**Container Warnings:** Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

## SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

## **GENERAL CONSIDERATIONS:**

Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

## **ENGINEERING CONTROLS:**

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

**Eye/Face Protection:** No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.

**Skin Protection:** No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances in the workplace. Suggested materials for protective gloves include: Natural rubber, Neoprene, Nitrile Rubber, Polyvinyl Chloride (PVC or Vinyl).

**Respiratory Protection:** Determine if airborne concentrations are below the recommended occupational exposure limits for jurisdiction of use. If airborne concentrations are above the acceptable limits, wear an approved respirator that provides adequate protection from this material, such as: Air-Purifying Respirator for Organic Vapors, Dusts and Mists.

Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

## **Occupational Exposure Limits:**

Component	Agency	TWA	STEL	Ceiling	Notation
Ethylene Glycol	ACGIH			100 mg/m3	

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Color: Red

Physical State: Liquid

Odor: Faint or Mild

**pH:** 8.1 - 8.5

Vapor Pressure: 0.12 mmHg (Typical) @ 20 ℃ (68 F)

Vapor Density (Air = 1): 2.1

**Boiling Point:** 108.9℃ (228年)

Solubility: Miscible

**Freezing Point:** -36.7℃ (-34℉)

Specific Gravity: 1.08 @ 15.6℃ (60.1℃) / 15.6℃ (60.1℃)

Viscosity: No data available

## SECTION 10 STABILITY AND REACTIVITY

**Chemical Stability:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Hazardous Decomposition Products: Ketones (Elevated temperatures), Aldehydes (Elevated temperatures)

Hazardous Polymerization: Hazardous polymerization will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

## **IMMEDIATE HEALTH EFFECTS**

Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.

**Skin Irritation:** The skin irritation hazard is based on evaluation of data for similar materials or product components.

Skin Sensitization: No product toxicology data available.

Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.

Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

## ADDITIONAL TOXICOLOGY INFORMATION:

This product contains diethylene glycol (DEG). The estimated oral lethal dose is about 50 cc (1.6 oz) for an adult human. DEG has caused the following effects in laboratory animals: liver abnormalities, kidney damage and blood abnormalities. It has been suggested as a cause of the following effects in humans: liver abnormalities, kidney damage, lung damage and central nervous system damage.

This product contains ethylene glycol (EG). The toxicity of EG via inhalation or skin contact is expected to be slight at room temperature. The estimated oral lethal dose is about 100 cc (3.3 oz.) for an adult human. Ethylene glycol is oxidized to oxalic acid which results in the deposition of calcium oxalate crystals mainly in the brain and kidneys. Early signs and symptoms of EG poisoning may resemble those of alcohol intoxication. Later, the victim may experience nausea, vomiting, weakness, abdominal and muscle pain, difficulty in breathing and decreased urine output. When EG was heated above the boiling point of water, vapors formed which reportedly caused unconsciousness, increased lymphocyte count, and a rapid, jerky movement of the eyes in persons chronically exposed. When EG was administered orally to pregnant rats and mice, there was an increase in fetal deaths and birth defects. Some of these effects occurred at doses that had no toxic effects on the mothers. We are not aware of any reports that EG causes reproductive toxicity in human beings.

2-Ethylhexanoic acid (2-EXA) caused an increase in liver size and enzyme levels when repeatedly administered to rats via the diet. When administered to pregnant rats by gavage or in drinking water, 2-EXA caused teratogenicity (birth defects) and delayed postnatal development of the pups. Additionally, 2-EXA impaired female fertility in rats. Birth defects were seen in the offspring of mice who were administered sodium 2-ethylhexanoate via intraperitoneal injection during pregnancy.

## **SECTION 12 ECOLOGICAL INFORMATION**

## ECOTOXICITY

The toxicity of this material to aquatic organisms has not been evaluated. Consequently, this material should be kept out of sewage and drainage systems and all bodies of water.

## ENVIRONMENTAL FATE

This material is expected to be readily biodegradable.

## SECTION 13 DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

## SECTION 14 TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

## DOT Shipping Description: Anti-freeze Preparations, Proprietary

Additional Information: Bulk shipments with a reportable quantity (5000 pounds) of ethylene glycol are a hazardous material. The Proper Shipping Name is: Environmentally Hazardous Substance, Liquid, N.O.S. (ethylene glycol), 9, UN3082, III, RQ (ethylene glycol).

IMO/IMDG Shipping Description: MAY BE REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION UNDER THE IMDG CODE

ICAO/IATA Shipping Description: Anti-freeze Preparations, Proprietary; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

## SECTION 15 REGULATORY INFORMATION

EPCRA 311/312 CATEGORIES: 1. Immediate (Acute) Health Effects: YES

- 2. Delayed (Chronic) Health Effects: YES
- 3. Fire Hazard: NO
- 4. Sudden Release of Pressure Hazard: NO
- Reactivity Hazard: NO

**REGULATORY LISTS SEARCHED:** 

01-1=IARC Group 1	03=EPCRA 313
01-2A=IARC Group 2A	04=CA Proposition 65
01-2B=IARC Group 2B	05=MA RTK
02=NTP Carcinogen	06=NJ RTK
-	07=PA RTK

The following components of this material are found on the regulatory lists indicated.

Diethylene glycol	07
Ethylene Glycol	03, 05, 06, 07

## **CHEMICAL INVENTORIES:**

All components comply with the following chemical inventory requirements: AICS (Australia), DSL (Canada), EINECS (European Union), IECSC (China), KECI (Korea), PICCS (Philippines), TSCA (United States).

## NEW JERSEY RTK CLASSIFICATION:

Refer to components listed in Section 2.

## WHMIS CLASSIFICATION:

Class D, Division 1, Subdivision B: Toxic Material -

Acute Lethality

Class D, Division 2, Subdivision A: Very Toxic Material -

Teratogenicity and Embryotoxicity

**Reproductive Toxicity** 

## SECTION 16 OTHER INFORMATION

NFPA RATINGS: Health: 2 Flammability: 0 Reactivity: 0

HMIS RATINGS: Health: 2\* Flammability: 0 Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, \*-Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

## LABEL RECOMMENDATION:

Label Category : ANTIFREEZE/COOLANT 3 - AFC3

REVISION STATEMENT: This revision updates the following sections of this Material Safety Data Sheet: 12, 16

Revision Date: May 04, 2009

## ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	MSDS - Material Safety Data Sheet
CVX - Chevron	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Chevron Energy Technology Company, 100 Chevron Way, Richmond, California 94802.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



# Material Safety Data Sheet

<b>SDS #</b> : A-1030	Toner Cartridge -Black		
Issuing Date 2006-04-13	Revision Date 2011-05-20 Version		
1. PRODUCT AND COMPAN	Y IDENTIFICATION		
Trade Name: Toner		HP LaserJet 4350 Series, 00 Series, HP LaserJet 4000, HP	
Part No. 006R00959, 003R99	623, 106R02148, 106R02144		
Color Pure substance/preparation	Black Preparation		
Identified uses	Xerographic printing		
Manufactured by:	Xerox Corporation Rochester, NY 14644		
Emergency telephone	Safety Information (800)828-6571 Health Emergency (585)422-2177 Chemical Emergency only (Chemtrec) (800)424 or (703)527-3887 (collect outside the US or Car		
2. HAZARDS IDENTIFICATION	NC		
	ON Emergency Overview nces which, in the form utilized and at their g be hazardous to health.	iven concentrations, are considered to	
	Emergency Overview nces which, in the form utilized and at their g		
The product contains no substa Color Black Potential Health Effects Principle Routes of Exposure Acute toxicity Eyes Skin Inhalation Ingestion	Emergency Overview nces which, in the form utilized and at their g be hazardous to health. Appearance Physical sta	ate Odor	
The product contains no substa Color Black Potential Health Effects Principle Routes of Exposure Acute toxicity Eyes Skin Inhalation	Emergency Overview         nces which, in the form utilized and at their g         be hazardous to health.         Appearance       Physical sta         Powder       Solid         Inhalation         No known effect         No known effect         No known effect         No known effect         No known effect	Ate Odor Faint Repeated or prolonged inhalation may sour with the inhalation of any non- toxic occur as with exposure to large amounts of ation, similar to nuisance dust	



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Polyester resin	119681-36-6	40-55
Iron oxide	1317-61-9	35-55

4. FIRST AID MEASURES	
General advice	For external use only. When symptoms persist or in all cases of doubt seek medical advice. Show this material safety data sheet to the doctor in attendance.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Skin contact	Wash skin with soap and water
Inhalation	Move to fresh air
Ingestion	Rinse mouth with water and afterwards drink plenty of water or milk
Notes to physician	Treat symptomatically
Protection of first-aiders	No special protective equipment required.

## 5. FIRE-FIGHTING MEASURES

Flammable properties	Not flammable. Will not readily ignite.
Flash point	not applicable
Suitable extinguishing media	Use water spray or fog; do not use straight streams, Foam
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire
Hazardous combustion products	Hazardous decomposition products due to incomplete combustion. Carbon oxides. Nitrogen oxides (NOx).
Explosion Data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### Specific hazards arising from the chemical

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

#### **Protective Equipment and Precautions for Firefighters**

In the event of fire and/or explosion do not breathe fumes. Wear fire/flame resistant/retardant clothing. Use self-contained pressure-demand breathing apparatus if needed to prevent exposure to smoke or airborne toxins.

## **NFPA 704**

xerox 🌒

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**SDS # :** A-1030

## **Toner Cartridge -Black**

Consumer use Bulk Packaging	Health Hazard 0 Health Hazard 0	Flammability 1 Flammability 3	Stability 0 Stability 0	Special hazard None Special hazard None
6. ACCIDENTAL RELE	ASE MEASURES			
Personal Precautions	Avoid breathir	ng dust.		
Environmental Precautions	Refer to prote	ective measures listed in Se	ections 7 and 8.	
Methods for containment	Prevent dust	cloud.		
Methods for cleaning up		Prevent dust cloud. Sweep up or vacuum up spillage and collect in suitable container for disposal. Use non-sparking tools and equipment.		
Other Information	See Section 1	See Section 12 for additional information		
7. HANDLING AND STORAGE				
Advice on safe handling		Handle in accordance with good industrial hygiene and safety practice Prevent dust cloud		
Technical measures/Storage conditions	•	Keep container tightly closed in a dry and well-ventilated place Store at room temperature		
Hygiene measures	None under n	None under normal use condtions		
Industrial User	Wash hands I Wash hands I	Do not eat, drink or smoke when using this product Wash hands before eating, drinking, chewing gum, using tobacco, or using toilet Wash hands before breaks and at the end of workday Provide regular cleaning of equipment, work area and clothing		

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure guidelines

Product information

ACGIH TLV TWA	10 mg/m <sup>3</sup> (inhalable particles)
ACGIH TLV TWA	3 mg/m <sup>3</sup> (respirable particles)
OSHA PEL TWA	15 mg/m <sup>3</sup> (total dust)
OSHA PEL TWA	5 mg/m <sup>3</sup> (respirable dust)
Xerox Exposure Limit	2.5 mg/m <sup>3</sup> (total dust)
Xerox Exposure Limit	0.4 mg/m <sup>3</sup> (respirable dust)

#### **Other Information**

The results obtained from a Xerox sponsored Chronic Toner Inhalation Study demonstrated no lung changes in rats for the lowest (1mg/m<sup>3</sup>) exposure level (the level most relevant to potential human exposure). A very slight degree of fibrosis was noted in 25% of animals at the middle (4mg/m<sup>3</sup>) exposure level, while a slight degree of fibrosis was noted in all the animals at the highest (16mg/m<sup>3</sup>) exposure level. These findings are attributed to "lung overloading", a generic response to excessive amounts of any dust retained in the lungs for a prolonged period. This study was conducted using a special test toner to comply with an EPA testing protocol.

## **Biological standards**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies



**Occupational Exposure Controls** 

Engineering measures	None under normal use conditions.
Industrial use	Avoid dust formation Ensure all equipment is electrically grounded before beginning transfer operations Provide appropriate exhaust ventilation at places where dust is formed
Personal Protective Equipme	ent
Consumer use	These recommendations apply to the product as supplied
Respiratory protection	No special protective equipment required.
Eye/Face protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Hand protection	No special protective equipment required

Industrial use	In case of insufficient ventilation: Wear protective eyewear (goggles)
	Effective dust mask

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor threshold pH Flash point Softening point	Powder not applicable not applicable not applicable 49 - 60 °C / 1	120 - 140 °F	Odor Physical state Color Boiling point/range Autoignition temperature	Faint Solid Black not applicable not applicable
Flammability Lim	iits in Air	not applicable		
Explosive proper Vapor pressure Vapor density Water solubility Viscosity Partition coefficie Evaporation rate Melting point/ran Freezing point Specific gravity	ent	Fine dust dispersed in ai source is a potential dust not applicable not applicable Negligible not applicable not applicable Not determined not applicable not applicable		entrations, and in the presence of an ignition

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use



Stability	Stable under normal conditions	
Incompatible products	None	
Conditions to Avoid	Prevent dust cloud, Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard	
Hazardous Decomposition Products None under normal use.		
Hazardous polymerization	Hazardous polymerization does not occur	
Hazardous reactions	None under normal processing.	
11. TOXICOLOGICAL INF	ORMATION	

**Toner Cartridge -Black** 

The toxicity data noted below is based on the test results of similar reprographic materials.

## Acute toxicity

SDS #: A-1030

Product information	
Irritation	No skin irritation No eye irritation
LD50 Oral:	> 5 g/kg (rat)
LD50 Dermal:	> 5 g/kg (rabbit)
LC50 Inhalation:	> 5 mg/L (rat, 4 hr)
Chronic toxicity	
Product information	
Chronic effects	No known effects under normal use conditions. Repeated or prolonged inhalation may
	cause irritation of the respiratory tract as can occur with the inhalation of any non- toxic dust. Minimum respiratory or eye irritation may occur as with exposure to large amounts of
	any non-toxic dust.
Carcinogenicity	See "Other Information" in this section.
Other toxic effects	
Product information	
Sensitization	No sensitization responses were observed
Mutagenic effects	Not mutagenic in AMES Test

Mutagenic effects	Not mutagenic in AMES Te
Target organ effects	None known.
Other adverse effects Aspiration Hazard	None known. not applicable
Aspiration nazara	not applicable

#### Other information

The IARC (International Agency for Research on Cancer) has listed carbon black as "possibly carcinogenic to humans". The classification is based on studies evaluating pure, "free" carbon black. In contrast, toner is a formulation composed of specially prepared polymer and a small amount of carbon black (or other pigment). In the process of making toner, the small amount of carbon black becomes encapsulated within a matrix. Xerox has performed extensive testing of toner, including a chronic bioassay (test for potential carcinogenicity). Exposure to toner did not produce evidence of cancer in exposed animals. The results were submitted to regulatory agencies and published extensively.

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

The environmental impact of this product has not been fully investigated. However, this preparation is not expected to present significant adverse environmental effects.



### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional reguirements
------------------------	--

#### **Contaminated packaging** Dispose of in accordance with local regulations.

### 14. TRANSPORT INFORMATION

Note

This material is not subject to regulation as a hazardous material for shipping.

#### 15. REGULATORY INFORMATION

#### International Inventories TSCA

DSL/NDSL

Complies Complies

## U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product is not regulated as a pollutant pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product is not regulated as a hazardous air pollutant (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## TSCA

TSCA 12b does not apply to this product.

#### **U.S. State Regulations**

#### California Proposition 65

Carbon black is regulated under California Proposition 65 only if in the form of "airborne, unbound particles of respirable size". Toner products do not contain carbon black in the form of "airborne, unbound particles of respirable size". Therefore, the requirements of Proposition 65 do not apply to this product.

## U.S. State Right-to-Know Regulations



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Although this product contains substances included in some U.S. State Right-to-Know regulations, the particles are bound in a unique matrix and, therefore, the product does not pose any specific hazard.

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## WHMIS Hazard Class

Not subject to WHMIS classification

#### 16. OTHER INFORMATION

Issuing Date	2006-04-13
Revision Date	2011-05-20
Revision Note	Part number 106R02144 added

Model #(s) HP LaserJet 4000/4050 added

#### Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

end

# **SAFETY DATA SHEET**



This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2012) and equivalent state Standards. It has also been developed in accordance with the United Nations Globally Harmonized System of Classification of Chemicals (GHS) and the Canadian Workplace Hazardous Materials Information System (WHMIS). Refer to Section 16 of this document for the definition of terms and abbreviations.

## **SECTION 1: IDENTIFICATION**

## 1.1 PRODUCT IDENTIFIER:

- ITEM NUMBER:
- PRODUCT NAME:

## 410912

Truck Wash

## 5GL: 410912

55 GL: 410915

## 1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE OR USES ADVISED AGAINST

- IDENTIFIED USE:
- IDENTIFIED USERS:
- Equipment cleaning.

For sale to, use and storage by service persons only.

## 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/ SUPPLIER:
- ADDRESS
- BUSINESS PHONE:
- EMERGENCY PHONE:

## 1.4 OTHER PERTINENT INFORMATION

WAXIE Sanitary Supply 9353 Waxie Way; San Diego, CA 92123-1036

1-800-995-4466

- 1-800-255-3924 (CHEMTEL; 24 hours)
- This product is intended to be used only after dilution. The relevant hazard and safety data sheet are specified for both the **Product as SOLD** and **Product at USE DILUTION**, where appropriate.

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

## **OSHA/HCS Status**

Classification of the Substance or Mixture

## Product as SOLD

Skin corrosion (Category 1B); Serious eye damage (Category 1); Specific target organ toxicity - single exposure (Category 3, Respiratory system)

## 2.2 LABEL ELEMENTS:

ELEMENT Hazard Pictograms

Signal Word Hazard Statements

## Product as SOLD



## DANGER

Harmful if inhaled, swallowed, or in contact with skin. Causes severe skin burns and eye damage. May cause respiratory irritation.

## Product at USE DILUTION (< 10%)

Skin corrosion (Category 2); Serious eye damage/Irritation (Category 2A)

Product at USE DILUTION (<10%)



WARNING.

Causes skin and serious eye irritation.

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## **SECTION 2: HAZARDS IDENTIFICATION (Continued)**

2.2 LABEL ELEMENTS (Continued):			
ELEMENT	Product as SOLD	Product at USE DILUTION (<10%)	
Precautionary Statements			
Prevention	Keep out of reach of children. Wash hands thoroughly after use. Wear eye protection/face protection and protective gloves. Avoid breathing mist/vapor/spray. Use only outdoors or in well-ventilated area.	Keep out of reach of children. Wash hands thoroughly after use. Wear eye protection/face protection/protective clothing/protective gloves.	
Response	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center/doctor. Call a POISON CENTER or doctor if you feel unwell.	<ul> <li>IF SWALLOWED: Rinse mouth, Call a POISON CENTER or doctor/physician if you feel unwell.</li> <li>IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.</li> <li>IF ON SKIN: Wash with plenty of water. If skin irritation occurs, get medical advice/attention.</li> <li>Take off contaminated clothing and wash it before reuse.</li> </ul>	
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.	Not established; follow guidelines in section 7.	
Disposal	Dispose of contents/container in accordance with local, regional, national, and international regulations.	Dispose of contents/container in accordance with local/regional/ national/ international regulations.	

## 2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

• May cause severe irritation of the respiratory tract if mists/sprays are inhaled. Ingestion of large quantities may cause irritation, ulceration, nausea, vomiting and can be fatal.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

## 3.1 SUBSTANCES/MIXTURES

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w)
Silicic acid (H2SiO3), Disodium salt	6834-92-0	Corrosive to metals (Category 1); Skin corrosion (Category 1B); Serious eye damage (Category 1); Specific target organ toxicity - single exposure (Category 3, Respiratory system)	Proprietary <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

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## **SECTION 4: FIRST AID MEASURES**

#### 4.1 **DESCRIPTION OF FIRST AID MEASURES**

AREA EXPOSED	Product as SOLD	Product at USE DILUTION (<10%)
Eye Contact	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention immediately.	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention if irritation persists.
Skin Contact	Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.	Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.
Inhalation	Obtain fresh air.	Obtain fresh air.
Ingestion	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.
Other Recommendations	Wash clothing before reuse.	

## 4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

## • ACUTE HEALTH EFFECTS:

AREA EXPOSED	Product as SOLD	Product at USE DILUTION (<10%)	
Eye Contact	Severely irritating and potentially corrosive to eye tissue; contact will cause pain, redness, and tissue damage. Chemical burns and blindness may occur.	Causes serious eye irritation.	
Skin Contact	Seriously irritating and potentially corrosive to skin tissue; contact will cause pain, redness, and tissue damage. Chemical burns may occur.	Causes mild to moderate skin irritation, depending on duration of contact	
Inhalation	Inhalation of sprays, mists may cause coughing, nasal congestion and sore throat.	May causes respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.	
Ingestion	Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. May be fatal if swallowed.	Causes gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.	
CHRONIC HEALTH EFFECTS:			

#### ALTH EFFEC

		<b>Product as SOLD</b> Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause dermatitis.	Product at USE DILUTION (<10%) None reported.
٠	TARGET ORGANS:		
		Product as SOLD Eyes, skin, respiratory system.	Product at USE DILUTION (<10%) Skin, eyes.
4.3	INDICATION OF IMMEDIAT	E MEDICAL ATTENTION AND SPECIA	AL TREATMENT NEEDED
	The following information is for	or both <b>Product AS SOLD</b> and <b>Produc</b>	t at USE DILUTION.
•	<b>GENERAL INFORMATION:</b> For all exposures: In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.		

- **RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically. ٠
- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None reported. •

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## SECTION 5: FIREFIGHTING MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

## 5.1 EXTINGUISHING MEDIA

- **RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Water Jet, Dry Powder, Foam, Carbon Dioxide, Halon, or any other.
- UNSUITABLE FIRE EXTINGUISHING MEDIA: None known.

## 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

## • NFPA FLAMMABILITY CLASSIFICATION:

Classification NFPA Rating Product as SOLD



**NFPA Classification** 

Not flammable.

• UNUSUAL HAZARDS IN FIRE SITUATIONS:

## Product as SOLD

Decomposition	Generates caustic vapors and oxides of sodium and silicon, carbon monoxide and carbon dioxide.	Generates caustic vapors and oxides of sodium and silicon, carbon monoxide and carbon dioxide.
Explosion Sensitivity to Mechanical Impact	Not applicable.	Not applicable.
Explosion Sensitivity to Static Discharge	Not applicable.	Not applicable.

Product at USE DILUTION (<10%)

Product at USE DILUTION (<10%

Not flammable.

## 5.3 ADVICE FOR FIREFIGHTERS

• Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool. Because of the nature of this product, any equipment that comes in contact with this solution can be rinsed thoroughly with water and then returned to service.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Unless stated, information in this section is for both Product as SOLD and Product at USE DILUTION.

6.1

## PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incidental chemical releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.
- RESPONSE PROCEDURES FOR ANY RELEASE: Absorb spilled liquid with polypads or other suitable absorbent materials. If appropriate, neutralize contaminated area and equipment with base neutralizing agent. Rinse contaminated items and area thoroughly. Confirm that neutralization/decontamination is complete by testing with pH paper.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES (Continued)

#### 6.2 **ENVIORNMENTAL PRECAUTIONS**

Avoid response actions that can cause a release of a significant amount of the into the environment. . Avoid accidental dispersal of spilled material into soil, waterways and sewers.

#### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SPILL RESPONSE EQUIPMENT: Polypad or other absorbent material; base neutralizing agent; pH • paper.

#### 6.4 REFERENCES TO OTHER SECTIONS

- **SECTION 8:** For exposure levels and detailed personal protective equipment recommendations.
- SECTION 13: For waste handling guidelines.

## SECTION 7: HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

#### Product as SOLD

**Hygiene Practices** 

- Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- **Handling Practices** Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

### Product at USE DILUTION (<10%)

Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.

Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

	Product as SOLD	Product at USE DILUTION (<10%)
Storage Practices	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals.
Incompatibilities	See Section 10 (Stability and Reactivity).	See Section 10 (Stability and Reactivity).

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 **CONTROL PARAMETERS**

- U.S. NATIONAL EXPOSURE LIMITS: Not established. •
- BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS: Not established.

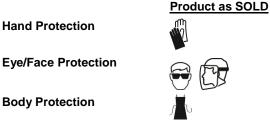
#### **EXPOSURE CONTROLS** 8.2

	Product as SOLD	Product at USE DILUTION (<10%)	
Engineering Controls	Use in well-ventilated environment.	Use in well-ventilated environment.	
<b>Respiratory Protection</b>	None needed in normal circumstances of use.	None needed in normal circumstances of use.	
Hand Protection	Neoprene or nitrile gloves are recommended. Ensure gloves are intact prior to use.	Standard chemical-resistant gloves used in janitorial work are recommended.	
Eye Protection	Safety glasses. Face-shields are recommended when splash, sprays, or mists can be generated.	Safety glasses.	
Body Protection	Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used.	Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used.	

#### 8.3 PERSONAL PROTECTION SYMBOLS

Hand Protection

**Body Protection** 



### Product at USE DILUTION (<10%)



1

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES 9.1

Appearance Odor Odor Threshold pH
Melting Point/Freezing Point
Initial Boiling Point/Boiling Range Flash Point
Evaporation Rate (Water = 1) Flammability
Upper/Lower Explosive Limits Vapor Pressure
Vapor Density
Relative Density (Density) Solubility
Partition Coefficient/n- octanol/water
Autoignition Temperature Decomposition Temperature Viscosity

## Product as SOLD

Amber liquid. Solvent. Not determined. < 12.5 Not determined. >99°C (210 °F). Not applicable. Not determined. Not applicable. Not applicable. Not determined. Not determined. 1.1 (9.26 lbs/gal.) Completely soluble in water. Not determined.

Not applicable. Not determined. Not determined.

## Product at USE DILUTION (<10%)

Colorless to yellow. Slight solvent Not determined. < 11.5 Approx. 0°C (32 °F). Approximately100°C (212°F). Not applicable. Approx. 1.0. Not applicable. Not applicable. Not determined. Not determined. Approx. 1.0. (8.34 .b/gal) Completely soluble in water. Not determined.

Not applicable. Not determined. Not determined.

#### 9.2 **OTHER INFORMATION**

VOC (less water & exempt): 0 G/L. WEIGHT% VOC: Not applicable. •

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## SECTION 10: STABILITY AND REACTIVITY

## 10.1 <u>REACTIVITY</u>

• Not reactive under typical conditions of use or handling.

## 10.2 CHEMICAL STABILITY

• Normally stable under standard temperatures and pressures.

## 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

- This product is not self-reactive, water-reactive, or air-reactive.
- This product will not undergo hazardous polymerization.

## 10.4 CONDITIONS TO AVOID

Avoid contact with incompatible chemicals.

## 10.5 INCOMPATIBLE MATERIALS

• Strong oxidizing agents, aluminum.

## 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

• Products of thermal decomposition of this product include caustic vapors, carbon monoxide, carbon dioxide, and oxides of potassium and nitrogen.

## SECTION 11: TOXICOLOGICAL INFORMATION

## 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

## • ACUTE TOXICITY:

 TOXICOLOGY DATA: The following data are available for the hazardous components in this product listed in Section 3 (Composition/Information on Ingredients).

SILICIC ACID (H2SIO3), DISODIUM SALT LD50 (Oral, Rat) = 1,152 - 1,349 mg/kg

- DEGREE OF IRRITATION: Causes severe skin burns and eye damage. The following data are available for components of this product.
   <u>SILICIC ACID (H2SIO3), DISODIUM SALT</u> Skin corrosion/irritation: Skin – Rabbit; Severe skin irritation - 4 hours
- SENSITIZATION: The components of this product are not reported to have skin or respiratory sensitization effects.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for additional details.

See Section 4 (First-Aid Measures) for more details.	Product as SOLD	Product at USE DILUTION <10%)
Eyes	May cause moderate to severe eye irritation and chemical burns.	May cause moderate to severe eye irritation and chemical burns, depending on duration of exposure.
Skin	May cause moderate to severe skin irritation, and chemical burns.	May cause moderate to severe skin irritation, and chemical burns.
Inhalation	Causes irritation of membranes of nose, mouth, throat; degree of irritation depends on exposure.	Causes mild to moderate irritation of membranes of nose, mouth, throat.
Ingestion	Causes severe irritation and chemical burns of gastrointestinal system. May be fatal if swallowed.	Causes severe irritation and chemical burns of gastrointestinal system. May be fatal if swallowed.

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## SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

- CHRONIC TOXICITY:
  - **CARCINOGENICITY STATUS:** Not established.
  - **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
  - **MUTAGENIC EFFECTS** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
  - **SPECIFIC TARGET ORGAN TOXICITY SINGLE EXPOSURE:** This product is a respiratory system irritant.
  - SPECIFIC TARGET ORGAN TOXICITY REPEATED EXPOSURE: Not applicable.
  - **ASPIRATION HAZARD:** Not applicable.
- OTHER INFORMATION
  - TOXICOLOGICALLY SYNERGISTIC PRODUCTS: None known.
  - o ADDITIONAL TOXICOLOGY: Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

Unless stated, information in this section is for both Product as SOLD and Product at USE DILUTION.

## 12.1 <u>TOXICITY</u>

- Based on available data, this product is anticipated to be harmful or fatal to contaminated terrestrial plants or animals.
- The following aquatic toxicity data are available for components of this product: <u>SILICIC ACID (H2SIO3), DISODIUM SALT</u> Semi-static test LC50 – (Danio rerio) - 210 mg/l - 96 h

## 12.2 PERSISTENCE AND DEGRADABILITY

• When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

## 12.3 BIOACCUMULATIVE POTENTIAL

• This product is not anticipated to bioaccumulate significantly.

## 12.4 MOBILITY IN SOIL

• It is expected this product will have small mobility in soil. Some of the components may get into the soil and, ultimately, the ground water. Product spreads on the water surface.

## 12.5 OTHER ADVERSE EFFECTS

• None reported.

## SECTION 13: DISPOSAL CONSIDERATION

## 13.1 WASTE TREATMENT METHODS

## Product as SOLD

Dispose of in accordance with local, State and Federal regulations.

Product at USE DILUTION

Dispose of unused product in accordance with local, State and Federal regulations.

## 13.2 DISPOSAL CONSIDERATIONS

• EPA RCRA WASTE CODE: Not applicable to wastes consisting only of this product.

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## **SECTION 14: TRANSPORT INFORMATION**

## 14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

Information in this section is for Product as SOLD.

## 14.1: DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
NOT APPLICABLE						

- IATA DESIGNATION: This product is not regulated as dangerous goods by the International Air Transport Association.
- **IMO DESIGNATION**: This product is not regulated as dangerous goods by the International Maritime Organization.

## 14.2 ENVIRONMENTAL HAZARDS

• None described, as related to transportation.

## 14.3 SPECIAL PRECAUTIONS FOR USERS

• Not applicable.

## 14.4 TRANSPORT IN BULK

• Not applicable.

## **SECTION 15: REGULATORY INFORMATION**

## 15.1: SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS SPECIFIC FOR THE PRODUCT

## OTHER IMPORTANT U.S. REGULATIONS

- **U.S. SARA THRESHOLD PLANNING QUANTITY**: Not applicable.
- U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
- U.S. CERCLA REPORTABLE QUANTITY (RQ): Not applicable.
- **U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
- CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS: Not applicable.

## • INTERNATIONAL REGULATIONS

- **CANADIAN REGULATORY STATUS:** The **PRODUCT as SOLD** is classified as hazardous under Canadian Controlled Products regulations (SOR-88-66).
  - It is classified as E –Corrosive Material. See symbol to right.
    - This SDS contains all the information required by the CPR.
- CANADIAN DSL/NDSL INVENTORY STATUS: The listed components of this product are on the DSL/NDSL Inventory.
- CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: The components of this product are not on the CEPA Priorities Substances Lists.
- **GERMAN WATER HAZARD CLASSIFICATION:** 1 (Low hazard to waters).

## **SECTION 16: OTHER INFORMATION**

## 16.1: INDICATION OF CHANGE

- DATE OF REVISION: April 27, 2015
- SUPERCEDES: September 29, 2014
- CHANGE INDICATED: Update of OSHA Hazard Communication Standard (29 CFR 1910.1200).

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## SECTION 16: OTHER INFORMATION (Continued)

## 16.2: KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- SAX Dangerous Properties of Industrial Materials
- RTECS Registry of Effects of Toxic Chemicals
- TOXNET <u>http://toxnet.nlm.nih.gov/</u>

## 16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD			Product at US	E DILUT	ION
Health	2	HMIS Personal Protective	Health	1	HMIS Personal Protective
Flammability	0	Equipment Rating: Occupational Use situations:	Flammability	0	Equipment Rating: Occupational Use situations: B - Safety glasses
Physical Hazard	0	C - Safety glasses and gloves and- body protection suitable to specific circumstances of	Physical Hazard	0	and gloves. C – Rubber apron should be added if splashes/sprays can occur.
Protective Equipment	C/D	use should be worn. D - Face-shield should be added if splashes/sprays can occur.	Protective Equipment	B/C	spiasnes/spiays can occur.

### 16.4 DISCLAIMER

WAXIE Sanitary Supply makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of their own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by WAXIE Sanitary Supply as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does WAXIE Sanitary Supply assume any liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. WAXIE Sanitary Supply does not recommend blending this product with any other chemicals. All information, recommendations and data contained herein concerning this product are based upon information available at the time of writing from recognized technical sources.

### 16.5: ABBREVIATIONS AND ACRONYMS

**ALL SECTIONS:** <u>OSHA</u>: U.S. Federal Occupational Safety and Health Administration. <u>WHMIS</u>: Canadian Workplace Hazardous Materials Standard. <u>GHS</u>: Globally Harmonized System of Classification of Chemical Substances. <u>REACH</u>: European Union regulation, Registration, Evaluation, Authorization and Restriction of Chemical substances.

**SECTION 2:** <u>CAS Number</u>: Chemical Abstract Service Number, which is used by the American chemical Society to uniquely identify a chemical.

**SECTION 5:** <u>NFPA</u>: National Fire Protection Association. <u>NFPA</u> <u>FLAMMABILITY CLASSIFICATION</u>: The NFPA uses the flash point (FI.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: FI.P. below 73°F and BP below 100°F. Class IB: FI.P. below 73°F and BP at or above 100°F. Class IC: :FI.P. at or above 73°F and BP at or above 100°F. Class II: : FI.P. at or above 100°F and below 140°F. Class IIIA: FI.P. at or above 140°F and below 200°F. Class IIIB: FI.P. at or above 200°F. <u>NFPA HAZARDOUS MATERIALS RATING</u>: This is a rating system used to summarize physical and health hazards to firefighters. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

SECTION 8: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. Note: In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m3: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit.

**SECTION 9:** <u>DH</u>: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. <u>FLASH POINT</u>: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. <u>AUTOIGNITION TEMPERATURE</u>: Temperature at which spontaneous ignition occurs.

SECTION 9 (Continued): LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. <u>UPPER EXPLOSIVE LIMIT (UEL)</u>: The maximum concentration of flammable vapors in air which will sustain ignition.≈: Approximately symbol. VOC: Volatile Organic Compound.

CARCINOGENICITY STATUS NTP: SECTION 11: National Toxicology Program. IARC: International Agency for Research on Cancer. REPRODUCTIVE TOXICITY INFORMATION: Mutagen: Substance capable of causing chromosomal damage to cells. Embryotoxin: Substance capable of damaging the developing embryo in an overexposed female. Teratogen: Substance capable of damaging the developing fetus in an overexposed female. Reproductive toxin: Substance capable of adversely affecting male or female reproductive organs or functions. TOXICOLOGY DATA: LDxxor LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to access the toxicity of chemical substances to humans. TDxxor TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.

**SECTION 12:** <u>EC50</u>: Effect Concentration (on 50% of study group); <u>BOD</u>: Biological Oxygen Demand.

**SECTION 13:** <u>RCRA</u>: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. <u>EPA RCRA</u> <u>Waste Codes</u>: Defined in 40 CFR Section 261.

**SECTION 15:** <u>CERCLA</u>: Comprehensive Environmental Response Compensation and Liability Act (a.k.a. "Superfund") and SARA: (Superfund Amendment and Reauthorization Act). The regulations promulgated under this Act are located under 40 CFR 300 ff. and provide "community right-to-know" requirements. <u>TSCA</u>: Toxic Substances Control Act: Rules regulating the manufacture and sale of chemicals found in 40 CFR 700-766. <u>DSL/NDSL</u>: Canadian Domestic Substances and Non-Domestic Substances Lists.

**SECTION 16:** <u>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM</u> <u>RATING</u>: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

Truck Wash	WAXIE Sanitary Supply	SAFETY DATA SHEET
Product AS SOLD and IN USE DILUTION	Page 10 of 10	April 27, 2015



# SAFETY DATA SHEET

## 1. Identification

Product identifier	Upside Down Marking Paints - Whi	te	
Other means of identification			
Product code	18206		
Recommended use	Coating		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	r/Distributor information		
Manufactured or sold by:			
Company name	CRC Industries, Inc.		
Address	885 Louis Dr.		
	Warminster, PA 18974 US		
Telephone			
General Information	215-674-4300		
Technical	800-521-3168		
Assistance			
Customer Service	800-272-4620		
24-Hour Emergency	800-424-9300 (US)		
(CHEMTREC)	703-527-3887 (International)		
Website	www.crcindustries.com		
2. Hazard(s) identification	I		
Physical hazards	Flammable aerosols	Category 1	
	Gases under pressure	Liquefied gas	
Health hazards	Carcinogenicity	Category 2	

Category 1

Category 3

**Environmental hazards** 

**OSHA** defined hazards

Label elements



Hazardous to the aquatic environment,

Aspiration hazard

long-term hazard

Not classified.

Signal word	Danger		
Hazard statement	Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Suspected of causing cancer.		
Precautionary statement			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not spray on an open flame or other ignition source. Do not apply while equipment is energized. Pressurized container: Do not pierce or burn, even after use. Extinguish all flames, pilot lights and heaters. Vapors will accumulate readily and may ignite. Use only with adequate ventilation; maintain ventilation during use and until all vapors are gone. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. If you experience any symptoms listed on this label, increase ventilation or leave the area. Wear protective gloves/protective clothing/eye protection/face protection.		
Response	If swallowed: Call a physician/poison center immediately. Do NOT induce vomiting. If exposed or concerned: Get medical attention.		
Storage	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose or store at temperatures exceeding 50°C/122°F. Exposure to high temperature may cause can to burst.		
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.		
Hazard(s) not otherwise classified (HNOC)	Harmful to aquatic life with long lasting effects.		

## Supplemental information

58.12% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

## **Mixtures**

CAS number	
CAS number	%
7732-18-5	20 - 30
1317-65-3	10 - 20
106-97-8	10 - 20
74-98-6	10 - 20
64742-89-8	10 - 20
64742-47-8	5 - 10
13463-67-7	5 - 10
	13463-67-7

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.		
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.		
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Aspiration may cause pulmonary edema and pneumonitis.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
5. Fire-fighting measures			
Suitable extinguishing media	Small Fires: Powder. Water spray. Carbon dioxide (CO2). Dry sand.		
	Large Fires: Water spray. Alcohol resistant foam.		
Unsuitable extinguishing media	None known.		
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.		

Special protective equipment<br/>and precautions for firefightersFirefighters must use standard protective equipment including flame retardant coat, helmet with<br/>face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

General fire hazards Extremely flammable aerosol.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol.
	Store locked up. Store in a well-ventilated place. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. This material can accumulate static charge which may

cause spark and become an ignition source.

US. OSHA Table Z-1 Limits Components	for Air Contaminants (29 CFR 1910. Type	1000) Value	Form		
Calcium carbonate (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.		
1317-03-37		15 mg/m3	Total dust.		
Propane (CAS 74-98-6)	PEL	1800 mg/m3			
		1000 ppm			
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.		
US. ACGIH Threshold Limi	t Values				
Components	Туре	Value			
n-Butane (CAS 106-97-8)	STEL	1000 ppm			
Titanium dioxide (CAS 13463-67-7)	TWA	10 mg/m3			
US. NIOSH: Pocket Guide t	o Chemical Hazards				
Components	Туре	Value	Form		
Calcium carbonate (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.		
		10 mg/m3	Total		
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)	TWA	100 mg/m3			
n-Butane (CAS 106-97-8)	TWA	1900 mg/m3 800 ppm			
Propane (CAS 74-98-6)	TWA	1800 mg/m3 1000 ppm			
Biological limit values No biological exposure limits noted for the ingredient(s		or the ingredient(s).			
propriate engineering htrols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level.				
ividual protection measures	s, such as personal protective equipr	nent			
Eye/face protection	Wear safety glasses with side shield	ls (or goggles).			
Skin protection					
Hand protection	Wear protective gloves such as nitri	e or rubber.			
Other	Wear appropriate chemical resistant clothing.				
Respiratory protection	In case of insufficient ventilation, we determine actual employee exposur	In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed t			
Thermal hazards	Wear appropriate thermal protective				
neral hygiene nsiderations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.				

## 9. Physical and chemical properties

Physical state	Liquid.		
Form	Aerosol.		
Color	White.		
Odor	Aromatic.		
Odor threshold	Not available.		
рН	Not available.		
Melting point/freezing point	-138.8 °F (-94.9 °C)		
Initial boiling point and boiling range	-47.2 °F (-44 °C)		
Flash point	-2.2 °F (-19 °C)		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not available.		
Upper/lower flammability or exp	osive limits		
Flammability limit - lower (%)	1.5 %		
Flammability limit - upper (%)	10.9 %		
Vapor pressure	2505.3 hPa estimated		
Vapor density	> 1 (air = 1)		
Relative density	0.77 - 0.85		
Solubility (water)	Not available.		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	410 °F (210 °C) estimated		
Decomposition temperature	Not available.		
Viscosity (kinematic)	Not available.		
Percent volatile	71 %		
10 Stability and reactivity			

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids. Fluorine. Chlorine. Nitrates.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure				
Ingestion	May be fatal if swallowed and enters airways.			
Inhalation	Prolonged inhalation may be harmful.			
Skin contact	Prolonged skin contact may cause temporary irritati	on.		
Eye contact	Direct contact with eyes may cause temporary irritation.			
Symptoms related to the physical, chemical and toxicological characteristics				
Information on toxicological ef	fects			
Acute toxicity	May be fatal if swallowed and enters airways. Species Test Results			
Product				
Upside Down Marking Paints - W	hite			
Acute Dermal				
LD50	Rabbit	23109.1211 mg/kg estimated		
Inhalation				
LC50	Rat	12521.0928 ppm, 4 hours estimated		

Product	Species	Test Results
		8179.4048 mg/l, 15 Minutes estimated
		6351.3516 mg/l, 4 hours estimated
Oral		
LD50	Rat	57004.2344 mg/kg estimated
Chronic		
Oral		
LD50	Mouse	2311.1116 g/kg estimated
Skin corrosion/irritation	Prolonged skin contact may c	ause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may	cause temporary irritation.
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall E	Evaluation of Carcinogenicity	
Titanium dioxide (CAS 13	463-67-7)	2B Possibly carcinogenic to humans.
Reproductive toxicity	This product is not expected t	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	May be fatal if swallowed and	enters airways.
Chronic effects	Prolonged inhalation may be	harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

Ecotoxicity	Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.		
Product		Species	Test Results
Upside Down Marking Paints	s - White		
Fish	LC50	Fish	9113.4414 mg/l, 96 hours estimated
Acute			
Crustacea	EC50	Daphnia	8400 mg/l, 48 hours estimated
Components		Species	Test Results
Distillates (petroleum), hydro	treated light (C	AS 64742-47-8)	
Acute			
	EC50	Invertebrate (saltwater)	4720 mg/l, 96 hours
Aquatic			
Acute			
Fish	LC50	Bluegill (Lepomis macrochirus)	1740 mg/l, 96 hours
		Fathead minnow (Pimephales promelas)	45 mg/l, 96 hours
Titanium dioxide (CAS 1346	3-67-7)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	> 1000 mg/l, 48 hours
Fish	LC50	Mummichog (Fundulus heteroclitus)	> 1000 mg/l, 96 hours
ersistence and degradability	No data is a	vailable on the degradability of this product.	
ioaccumulative potential	No data ava	ilable.	
Partition coefficient n-octa	nol / water (lo	g Kow)	
n-Butane Propane		2.89 2.36	
lobility in soil	No data ava	ilable.	
Other adverse effects		verse environmental effects (e.g. ozone depl idocrine disruption, global warming potential)	

## 13. Disposal considerations

Disposal of waste from residues / unused products	This material and its container must be disposed of as hazardous waste. If discarded, this product is considered a RCRA ignitable waste, D001. Consult authorities before disposal. Empty container can be recycled. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national regulations.
Hazardous waste code	D001: Waste Flammable material with a flash point <140 F
Contaminated packaging	Do not re-use empty containers.

## 14. Transport information

DO.	Т
50	

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, limited quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Not available.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	304
Packaging bulk	None
ΙΑΤΑ	
UN number	UN1950
UN proper shipping name	Aerosols, flammable, limited quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Not available.
Other information	
Passenger and cargo	Allowed.
aircraft	
Cargo aircraft only	Allowed.
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS, LIMITED QUANTITY
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	F-D, S-U
Special precautions for user	Not available.

## 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	
Not regulated.	
SARA 304 Emergency release notification	
Not regulated.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	
Not listed.	
US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance	
Not listed.	
CERCLA Hazardous Substance List (40 CFR 302.4)	
Not listed.	

### **CERCLA Hazardous Substances: Reportable quantity**

Not listed.		
Spills or releases resulti	ng in the loss of any ingredient at or above its RQ require ir	
	424-8802) and to your Local Emergency Planning Committe	ee.
	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectio	n 112(r) Accidental Release Prevention (40 CFR 68.130	)
n-Butane (CAS 106-97- Propane (CAS 74-98-6)	8)	,
Safe Drinking Water Act (SDWA)	Not regulated.	
Food and Drug Administration (FDA)	Not regulated.	
Superfund Amendments a	nd Reauthorization Act of 1986 (SARA)	
Section 311/312	Immediate Hazard - Yes Delayed Hazard - Yes	
Hazard categories	Fire Hazard - Yes	
	Pressure Hazard - Yes	
SADA 202 Extremely	Reactivity Hazard - No No	
SARA 302 Extremely hazardous substance	NO	
US state regulations		
US. New Jersey RTK - Sub	stances: Listed substance	
Calcium carbonate (CAS		
n-Butane (CAS 106-97-		
Propane (CAS 74-98-6) Titanium dioxide (CAS 1		
US. Massachusetts RTK - S	,	
Calcium carbonate (CAS		
n-Butane (CAS 106-97-		
Propane (CAS 74-98-6) Titanium dioxide (CAS 1		
US. Pennsylvania RTK - Ha		
Calcium carbonate (CAS		
	nydrotreated light (CAS 64742-47-8)	
n-Butane (CAS 106-97- Propane (CAS 74-98-6)		
Titanium dioxide (CAS 1		
US. Rhode Island RTK		
n-Butane (CAS 106-97-6 Propane (CAS 74-98-6)	3)	
US. California Proposition	65	
WARNING: This produc	t contains a chemical known to the State of California to ca	use cancer.
US - California Propos	ition 65 - CRT: Listed date/Carcinogenic substance	
Ethylbenzene (CAS Titanium dioxide (C		11
Volatile organic compounds (V EPA	OC) regulations	
Aerosol coatings (40 CFR 59, Subpt. E)	Compliant	
State		
Aerosol coatings	This product is regulated as a Ground Traffic and Markin sale in all 50 states.	ng Coating. This product is compliant for
Maximum increme reactivity (MIR)	ontal 0.54	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no
Australia	Australian Inventory of Chemical Substances (AICS)	N
Canada	Domestic Substances List (DSL)	Ν
Canada	Non-Domestic Substances List (NDSL)	Ye
China	Inventory of Existing Chemical Substances in China (IE	CSC) N
Material name: Upside Down Markin	a Paints - White	SDS U

No No Yes No

On inventory (yes/no)\*

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	10-01-2013
Prepared by	Allison Cho
Version #	01
Further information	Not available.
HMIS® ratings	Health: 1* Flammability: 4 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 4 Instability: 0
Disclaimer	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or CRC Industries.







## 1 - Identification

Trade Name: WD-40 Smart Straw Aerosol	Canadian Office:
	WD-40 Products [Canada] Ltd.
Product Use: Lubricant, Penetrant, Drives Out	P.O. Box 220
Moisture, Removes and Protects Surfaces From	Toronto, Ontario M9C 4V3
Corrosion	Information Phone #: (416) 622-9881
	Emergency Phone # 24 hr: Canutec: (613) 996-
Restrictions on Use: None identified	6666 -
	Designated for use only in the event of chemical
SDS Date Of Preparation: March 1, 2016	emergencies involving a spill, leak, fire exposure or
-	accident involving chemicals

## 2 – Hazards Identification

WHMIS 2015/GHS Classification: Flammable Aerosol Category 1 Gas Under Pressure: Compressed Gas Aspiration Toxicity Category 1 Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)

## Label Elements:



## DANGER!

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.

## Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid breathing mist or vapors.

Use only outdoors or in a well-ventilated area.

#### Response

IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you fell unwell.

### Storage

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. **Disposal** 

## Dispose of contents and container in accordance with local and national regulations.

Ingi	redient	CAS #	Weight Percent	WHMIS 2015/ GHS Classification
Aliphatic Hydr	ocarbon	64742-47-8	50-70%	Flammable Liquid Category 3
				Aspiration Toxicity Category 1
				Specific Target Organ Toxicity
				Single Exposure Category 3
				(nervous system effects)
Petroleum Bas	se Oil	64742-56-9	30-35%	Not Hazardous
		64742-65-0		
		64742-53-6		
		64742-54-7		
		64742-71-8		
Carbon Dioxic	le	124-38-9	2-3%	Simple Asphyxiant

## 3 - Composition/Information on Ingredients

## 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

Skin Contact: Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure:** Harmful or fatal is swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye irritation. Inhalation of mists or vapors may cause nasal and respiratory tract irritation and central nervous system effects such as headache, dizziness and nausea. Skin contact may cause drying of the skin.

Indication of Immediate Medical Attention/Special Treatment Needed: Immediate medical attention is needed for ingestion.

## 5 – Fire Fighting Measures

**Suitable (and unsuitable) Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire. **Specific Hazards Arising from the Chemical:** Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

## 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

## 7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers

closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

Chemical	Occupational Exposure limits
Aliphatic Hydrocarbon	1200 mg/m3 TWA (manufacturer recommended)
Petroleum Base Oil	5 mg/m3 TWA (Inhalable) ACGIH TLV (as mineral oil)
	5 mg/m3 TWA, 10 mg/m3 STEL Canada- Québec (as oil mist, mineral)
	5 mg/m3 TWA, 10 mg/m3 STEL Canada- Ontario (as oil mist, mineral)
	1 mg/m3 TWA British Columbia (as Oil mist-mineral, severely refined)
Carbon Dioxide	5000 ppm TWA, 30000 ppm STEL ACGIH TLV
	5000 ppm TWA, 30000 ppm STEL Canada- Ontario
	5000 ppm TWA, 30000 ppm STEL Canada- Québec
	5000 ppm TWA. 15000 ppm STEL British Columbia

## 8 – Exposure Controls/Personal Protection

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

## **Personal Protection:**

**Eye Protection:** Avoid eye contact. Always spray away from your face.

**Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.

**Respiratory Protection:** None needed for normal use with adequate ventilation.

## For Bulk Processing or Workplace Use the Following Controls are Recommended

**Appropriate Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:** 

**Eye Protection:** Safety goggles recommended where eye contact is possible.

Skin Protection: Wear chemical resistant gloves.

**Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice. **Work/Hygiene Practices:** Wash with soap and water after handling.

## 9 – Physical and Chemical Properties

Appearance:	Light amber liquid	Flammable Limits: (Solvent Portion)	LEL: 0.6% UEL: 8%
Odor:	Mild petroleum odor	Vapor Pressure:	95-115 PSI @ 70°F
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not Applicable	Relative Density:	0.8 – 0.82 @ 60°F
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	361 - 369°F (183 - 187°C)	Partition Coefficient; n- octanol/water:	Not established
Flash Point:	122°F (49°C) Tag Open Cup (liquid)	Autoignition Temperature:	Not established
Evaporation Rate:	Not established	Decomposition Temperature:	Not established
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	2.79-2.96 cSt @ 100°F
VOC:	65%	Pour Point:	-63°C (-81.4°F ) ASTM D-97

## 10 - Stability and Reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable

Possibility of Hazardous Reactions: May react with strong oxidizers generating heat.

**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

## 11 – Toxicological Information

## Symptoms of Overexposure:

**Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.

**Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.

**Eye Contact:** Contact may be irritating to eyes. May cause redness and tearing.

**Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.

Chronic Effects: None expected.

**Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

**Reproductive Toxicity:** None of the components is considered a reproductive hazard.

## Numerical Measures of Toxicity:

Acute Toxicity Estimates: Oral > 5,000 mg/kg; Dermal >2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

## 12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available; however components of this product are not expected to be harmful to aquatic organisms

Persistence and Degradability: Components are readily biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients. **Mobility in Soil:** No data available

Other Adverse Effects: None known

13 - Disposal Considerations

Aerosol containers should not be punctured, compacted in home trash compactors or incinerated. Empty containers may be disposed of through normal waste management options. Dispose of all waste product, absorbents, and other materials in accordance with applicable Federal, state and local regulations.

## 14 – Transportation Information

DOT Surface Shipping Description: UN1950, Aerosols, 2.1 Ltd. Qty (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark) IMDG Shipping Description: UN1950, Aerosols, 2.1, LTD QTY ICAO Shipping Description: UN1950, Aerosols, flammable, 2.1

NOTE: WD-40 Company does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

## 15 – Regulatory Information

**National Pollutant Release Inventory (NPRI):** This product contains the following chemicals that are listed on the NPRI Substance List: Aliphatic Hydrocarbon (64742-47-8) 50-70%

# **Canadian Environmental Protection Act:** All of the ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

## 16 – Other Information

HMIS Hazard Rating: Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

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Regulatory Affairs Dept.

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