**CHSS** 



Bldg A, Bisbee

11/25/2019



# Safety Data Sheet Index Binder: Bldg A, Bisbee - CHSS

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3M Desk & Office Cleaner Wipes, #CL563 - 3M Desk & Office Cleaner Wipes, #CL563	111-76-2	111-76-2 3M - Office Supplies Division		7
70% ISOPROPYL ALCOHOL - 70% ISOPROPYL ALCOHOL	67-63-0	OSTREM CHEMICAL CO. LTD.	01/31/2018	16
99.5% GLYCERINE USP - 99.5% GLYCERINE USP	56-81-5	Humco Holding Group, Inc.	07/13/1990	20
Acid Demand Reagent (ADR) - Acid Demand Reagent (ADR)	7664-93-9	Taylor Technologies, Inc.	04/01/2015	22
AIR WICK Air Freshener (Aerosols All Scents) - AIR WICK Air Freshener (Aerosols All Scents)		Reckitt Benckiser	09/26/2012	31
Alcare OR Foamed Antiseptic Handrub - Alcare OR Foamed Antiseptic Handrub		Steris Corporation	04/15/2015	39
ANTI-BACTERIAL FOAMING HAND SOAP (Green Link) - ANTI-BACTERIAL FOAMING HAND SOAP (Green Link)		ZEP Inc.	09/16/2014	45
Base Demand Reagent (BDR) - Base Demand Reagent (BDR)	497-19-8	Taylor Technologies, Inc.	05/01/2015	48
BBW Anti-Bacterial Hand Gel - Relaunch All Fragrances - BBW Anti-Bacterial Hand Gel - Relaunch All Fragrances		Bath & Body Works	05/25/2010	56
Blow Off Air Duster - Blow Off Air Duster		A.V.W. Inc.	07/11/2013	58
Calcium Buffer - Calcium Buffer	1310-73-2	Taylor Technologies, Inc.	04/01/2018	64
Calcium Indicator Liquid - Calcium Indicator Liquid		Taylor Technologies, Inc.	04/01/2018	71
CCH COMMERCIAL DRY CHLORINATOR TABLETS - CCH COMMERCIAL DRY CHLORINATOR TABLETS		Arch Chemicals, Inc.	03/24/2008	78
Century Duster - Dust & Lint Remover - Century Duster - Dust & Lint Remover		Falcon Safety Products, Inc	04/18/2012	91
Clorox Bleach - Clorox Bleach		The Clorox Company	01/05/2015	97
CLOROX DISINFECTANT WIPES - CLOROX DISINFECTANT WIPES		The Clorox Company	07/01/2006	118
CR-0001 - DPD REAGENT #1 - CR-0001 - DPD REAGENT #1		Taylor Technologies Inc.	06/07/2012	119
CR-0002 - DPD REAGENT #2 - CR-0002 - DPD REAGENT #2		Taylor Technologies Inc.	06/08/2012	123

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CR-0009 - SULFURIC ACID .12N - CR-0009 - SULFURIC ACID .12N		Taylor Technologies Inc.	06/07/2012	132
Cramer Tuf-Skin (colorless and original) - Cramer Tuf-Skin (colorless and original)		CRAMER PRODUCTS, INC	04/12/2013	136
Cyanuric Acid Reagent - Cyanuric Acid Reagent		Taylor Technologies, Inc.	04/01/2018	138
D-LEAD SKIN CLEANSER - D-LEAD SKIN CLEANSER		ESCA TECH INC	01/24/1991	143
Double SS Cleaner - SS Cleaner		Sherwin-Williams Diversified Brands	11/29/2010	145
Dust-Off Compressed Gas Duster - Dust-Off Compressed Gas Duster		Falcon Safety Products, Inc	05/15/2018	149
Expo White Board Cleaner - Expo White Board Cleaner		Newell Rubbermaid	08/05/2015	155
Febreze Air Effects Aerosol Air Refresher - Aerosol Air Refresher		The Procter & Gamble Company, P and G Hosehold Care	03/01/2014	163
Formula 409 Multi-Surface Cleaner - Formula 409 Multi-Surface Cleaner		The Clorox Company	08/08/2017	169
Germ-X Hand Sanitizer - Germ-X Hand Sanitizer		Vi-Jon Incorporated	04/23/2008	178
Glade Air Freshener - All Fragrances - Glade Air Freshener - All Fragrances		S.C. JOHNSON WAX	02/05/1992	184
Glass Cleaner - Glass Cleaner		KIK CUSTOM PRODUCTS	10/07/2014	187
Goof Off Cleaner VOC Complaint - Goof Off Cleaner VOC Complaint		W. M. Barr	06/28/2011	189
Great Value (GV) Regular Bleach - Great Value (GV) Regular Bleach	7681-52-9	KIK International	05/07/2007	199
GREEN WORKS NATURALLY DERIVED ALL- PURPOSE CLEANER - GREEN WORKS NATURALLY DERIVED ALL-PURPOSE CLEANER		The Clorox Company	03/15/2011	207
Hardness Reagent - Hardness Reagent		Taylor Technologies, Inc.	06/01/2016	208
HIBICLENS - HIBICLENS		DPT Lakewood, Inc.	02/18/2010	212
HILCO Alcohol Free Lens Cleaning Liquid - Alcohol Free Lens Cleaning Liquid		HILCO	04/03/2013	218
HOSPECO HEALTH GARDS AIR FRESHENERS: HG BABY POWDER 07909; VERY VANILLA 07915; MANGO MADNESS 07917; FRESH LINEN 07918; FRUIT BASKET 07929; ORCHARD SPICE 07930; CITRUS GROVE 07931; FRESH GARDEN 07932 - HOSPECO HEALTH GARDS AIR		HOSPECO	05/23/2012	225

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FRESHENERS: HG BABY POWDER 07909; VERY VANILLA 07915; MANGO MADNESS 07917; FRESH LINEN 07918; FRUIT BASKET 07929; ORCHARD SPICE 07930; CITRUS GROVE 07931; FRESH GARDEN 07932				
HYDROGEN PEROXIDE 3% SOLUTION - HYDROGEN PEROXIDE 3% SOLUTION		Cumberland Swan	08/08/2008	227
Lemon Pledge Aerosol - Lemon Pledge Aerosol		Drackett Professional Products	03/02/1999	235
McKesson Hydrogen Peroxide 3%, USP - McKesson Hydrogen Peroxide 3%, USP	7722-84-1	McKesson Medical-Surgical Inc.	06/04/2013	239
McKesson Instant Hand Sanitizer - McKesson Instant Hand Sanitizer		McKesson Medical-Surgical Inc.	06/26/2013	244
Metrex Surface Disinfectant/Decontaminant Cleaner - Surface Disinfectant/Decontaminant Cleaner		Metrex Research Corporation	08/01/2009	249
Molybdenum Tungsten Solid Metal - Molybdenum Tungsten Solid Metal		H.C.STARCK INC	06/03/2011	250
Mosquito Larvicide GB 1111; Golden Bear 1111 Mosquito Larvicide - Mosquito Larvicide GB 1111; Golden Bear 1111 Mosquito Larvicide	8042-47-5	Clarke Mosquito Control Products, Inc.	01/13/2009	258
MURPHY SOFT WIPES WIPE WOOD CLEANER MULTIUSES - MURPHY SOFT WIPES WIPE WOOD CLEANER MULTIUSES		Colgate-Palmolive Company	12/13/2012	260
Noveko Microban Original Anitbacterial Hand Sanitizer - Microban Original Anitbacterial Hand Sanitizer		Noveko Inc.	01/11/2010	266
Off Insect Repellant II - Off Insect Repellant II		S. C. Johnson & Son, Inc.	01/27/2005	271
OFFICE DEPOT CLEANING DUSTER, 10OZ CAN - OFFICE DEPOT CLEANING DUSTER, 10OZ CAN	811-97-2	Office Depot Inc	01/01/2003	275
OLD ENGLISH Furniture Wipes - OLD ENGLISH Furniture Wipes space		Reckitt Benckiser	07/28/2010	277
Painters Touch GLOSS WHITE 12 OZ 0002737 - GLOSS WHITE 12 OZ 0002737		Rust-Oleum Corporation - Industrial Coatings	03/29/2001	284
pH Indicator Solution (Phenol Red) - pH Indicator Solution (Phenol Red)		Taylor Technologies, Inc.	06/01/2016	293
PLEDGE DUST & ALLERGEN - UNSCENTED DRY CLOTHS - PLEDGE DUST & ALLERGEN - UNSCENTED DRY CLOTHS		S.C. Johnson & Son, Inc.	07/21/2005	298
Poli-Kleen Wax Polish - Poli-Kleen Wax Polish		WAXIE SANITARY SUPPLY	08/29/2012	302
Prime Source Glaze Furniture Polish with Lemon Oil - Prime Source Glaze Furniture Polish with Lemon Oil		PRIME SOURCE	12/12/2012	308

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PURELL Advanced with Aloe Instant Hand Sanitizer - PURELL Advanced with Aloe Instant Hand Sanitizer		GOJO Industries, Inc.	06/04/2014	313
PURELL Hand Sanitizer - PURELL Hand Sanitizer		GOJO Industries, Inc.	03/19/2015	315
Roll on Stamp Pad Inker - Roll on Stamp Pad Inker		Sanford Corporation	01/02/2003	330
Shachihata Stamp Pad HGN-1,2,3,4 (All Colors), Shachihata Stamp Pad Ink SGN-40, SGN250 (All Colors) - Shachihata Stamp Pad HGN-1,2,3,4 (All Colors), Shachihata Stamp Pad Ink SGN-40, SGN250 (All Colors)		Shachihata Inc.	04/01/2012	332
Shredder Oil CITGO HyDurance AW Fluid 32 - CITGO HyDurance AW Fluid 32		CITGO Petroleum Corporation	05/26/2015	336
Staples Glass & Mirror Cleaner (STP18485)(BPR123A19-A) - Glass & Mirror Cleaner (STP18485)(BPR123A19-A)		Staples Contract & Commercial, Inc.	06/24/2013	345
Staples Screen Cleaner 8 oz - Staples Screen Cleaner 8 oz		Systemcare Products Ltd	10/01/2008	352
STATIC GUARD ANTISTATIC SPRAY - STATIC GUARD ANTISTATIC SPRAY		B&G Foods, Inc.	05/06/2013	356
Stride Fragrance Free SC Neutral Cleaner - Stride Fragrance Free SC Neutral Cleaner		Sealed Air Corporation	02/14/2014	361
Summit Bti Briquets - Summit Bti Briquets		Kinzua Environmental Inc	01/20/2006	364
Super Miracle Bubbles (SMB) - Super Miracle Bubbles (SMB)		Imperial Toy LLC	06/08/2010	367
Surface Disinfectant and Deodorant (STP-18481)(BPR223A16) - Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)		Staples Contract & Commercial, Inc.	08/31/2010	373
Surface Disinfectant/Decontaminant Cleaner - Surface Disinfectant/Decontaminant Cleaner		Metrex Research Corporation	08/01/2009	380
Swisher Lemon Kleen Disinfectant - Swisher Lemon Kleen Disinfectant		Swisher Hygiene Inc.	02/05/2015	381
Tape & Tuffner Pre-Tape Spray Remover Aerosol, 10oz - Tape & Tuffner Pre-Tape Spray Remover Aerosol, 10oz		MUELLER SPORTS MEDICINE INC	10/01/2014	389
Teknar HP-D Larvicide - Teknar HP-D		Killgerm Chemicals Ltd	02/01/2010	392
THIOSULFATE N/10 - THIOSULFATE N/10		Taylor Technologies, Inc.	05/01/2015	394
Total Alkalinity Indicator - Total Alkalinity Indicator		Taylor Technologies, Inc.	04/01/2015	402
Ultra Duster - Ultra Duster		AW Distributing, Inc.	01/11/2016	410
VectoBac G - VectoBac G		Valent Biosciences Corporation	10/09/2014	412

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WAXIE CLEANSER - WAXIE CLEANSER		Waxie Enterprises, Inc.	01/01/2011	419
Waxie Hospital Spray Surface Disinfectant - Waxie Hospital Spray Surface Disinfectant		Waxie Enterprises, Inc.	10/05/2000	422
WD-40 Aerosol - WD-40-Aerosol		WD-40 Company	12/28/2017	423
ZOECON ALTOSID BRIQUETS - ZOECON		Wellmark International	11/01/2004	428



# Safety Data Sheet

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# **SECTION 1: Identification**

## 1.1. Product identifier

3M(TM) Desk & Office Cleaner Wipes, #CL563

## **Product Identification Numbers**

70-0051-5275-9, 70-0712-2512-5

#### 1.2. Recommended use and restrictions on use

#### Recommended use

Cleaner, Cleaning wipe for office surfaces

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Office Supplies Division

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 1-888-3M HELPS (1-888-364-3577)

# 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

# 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

# 2.2. Label elements

Signal word

Warning

# **Symbols**

Not applicable

## **Pictograms**

Not applicable

# **Hazard Statements**

Causes eye irritation.

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## **Precautionary Statements**

#### **Prevention:**

Wash thoroughly after handling.

## **Response:**

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.

# Notes to Physician:

Not applicable

#### 2.3. Hazards not otherwise classified

None.

# **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	90 - 99
2-BUTOXYETHANOL	111-76-2	0 - 1 Trade Secret *

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# Inhalation:

Remove person to fresh air. If you are concerned, get medical advice.

# **Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eye Contact**:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

# If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

# 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

# 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

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# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

# **Hazardous Decomposition or By-Products**

**Substance** 

Carbon monoxide Carbon dioxide

# **Condition**

**During Combustion During Combustion** 

# 5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Observe precautions from other sections.

## 6.2. Environmental precautions

Not applicable.

# 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

# 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

# Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
2-BUTOXYETHANOL	111-76-2	Amer Conf of	TWA:20 ppm	
		Gov. Indust.		
		Hyg.		
2-BUTOXYETHANOL	111-76-2	US Dept of	TWA:240 mg/m3(50 ppm)	Skin Notation
		Labor - OSHA		

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists

American Indust. Hygiene Assoc : American Industrial Hygiene Association

Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

US Dept of Labor - OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

# 8.2. Exposure controls

# 8.2.1. Engineering controls

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Not applicable.

# 8.2.2. Personal protective equipment (PPE)

## Eye/face protection

Wear eye/face protection. Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety Glasses with side shields

# Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber

## **Respiratory protection**

None required.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

General Physical Form: Solid

Specific Physical Form: Non-Woven Material

Odor, Color, Grade: Clear liquid on a nonwoven wipe with lemon scent

**Odor threshold** No Data Available

**pH** 11.8 [Details: Liquid portion]

Melting point Not Applicable

**Boiling Point** 212 °F [Details: Liquid portion]

Flash PointNo flash pointEvaporation rateNo Data AvailableFlammability (solid, gas)Not ClassifiedFlammable Limits(LEL)Not ApplicableFlammable Limits(UEL)Not Applicable

Vapor Pressure 18 mmHg [@ 68 °F] [Details: Liquid portion]

Vapor Density No Data Available

**Density** 1 g/ml [*Details:* Liquid portion]

**Specific Gravity** 1 [Ref Std: WATER=1] [Details: Liquid portion]

Solubility in Water Complete

**Solubility- non-water** No Data Available

Partition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosityNo Data Available

# **SECTION 10: Stability and reactivity**

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#### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

# 10.2. Chemical stability

Stable.

## 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

## 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

# 10.6. Hazardous decomposition products

**Substance** 

**Condition** 

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

# 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### **Inhalation:**

No health effects are expected.

# **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

## **Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

## **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

Name	Route	Species	Value

Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
2-BUTOXYETHANOL	Dermal	Rabbit	LD50 400 mg/kg
2-BUTOXYETHANOL	Inhalation-	Rat	LC50 2.2 mg/l
	Vapor (4		
	hours)		
2-BUTOXYETHANOL	Ingestion	Rat	LD50 560 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
2-BUTOXYETHANOL	Rabbit	Irritant

**Serious Eye Damage/Irritation** 

Name	Species	Value
2-BUTOXYETHANOL	Rabbit	Severe irritant

# **Skin Sensitization**

Name	Species	Value
2-BUTOXYETHANOL	Guinea	Not sensitizing
	pig	

**Respiratory Sensitization** 

Name	Species	Value

**Germ Cell Mutagenicity** 

Name	Route	Value
2-BUTOXYETHANOL	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

Carcinogenicity

our chiogenitore,			
Name	Route	Species	Value
2-BUTOXYETHANOL	Inhalation	Multiple	Some positive data exist, but the data are not
		animal	sufficient for classification
		species	

# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
2-BUTOXYETHANOL	Dermal	Not toxic to development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-BUTOXYETHANOL	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 100 mg/kg/day	during organogenesi s
2-BUTOXYETHANOL	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 0.48 mg/l	during organogenesi s

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ Toxicity - single exposure								
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration		
2-BUTOXYETHANOL	Dermal	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 902 mg/kg	6 hours		
2-BUTOXYETHANOL	Dermal	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	LOAEL 72 mg/kg	not available		
2-BUTOXYETHANOL	Dermal	kidney and/or	Some positive data exist, but the	Rabbit	LOAEL 451	6 hours		

		bladder	data are not sufficient for classification		mg/kg	
2-BUTOXYETHANOL	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-BUTOXYETHANOL	Inhalation	blood	May cause damage to organs	Multiple animal species	NOAEL Not available	not available
2-BUTOXYETHANOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-BUTOXYETHANOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-BUTOXYETHANOL	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
2-BUTOXYETHANOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	poisoning and/or abuse

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
2-BUTOXYETHANOL	Dermal	blood	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
2-BUTOXYETHANOL	Dermal	endocrine system	All data are negative	Rabbit	NOAEL 150 mg/kg/day	90 days
2-BUTOXYETHANOL	Inhalation	blood	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.12 mg/l	90 days
2-BUTOXYETHANOL	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2.4 mg/l	14 weeks
2-BUTOXYETHANOL	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.15 mg/l	14 weeks
2-BUTOXYETHANOL	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 1.9 mg/l	8 days
2-BUTOXYETHANOL	Ingestion	blood	Causes damage to organs through prolonged or repeated exposure	Multiple animal species	NOAEL Not available	not available
2-BUTOXYETHANOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available

# **Aspiration Hazard**

Name	Value

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

# **Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

# **Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

# **SECTION 14: Transport Information**

For Transport Information, please visit <u>http://3M.com/Transportinfo</u> or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

# 15.1. US Federal Regulations

Contact 3M for more information.

## 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

## 15.2. State Regulations

Contact 3M for more information.

# 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

## 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

# **NFPA Hazard Classification**

Health: 1 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

#### **HMIS Hazard Classification**

**Health:** 2 Flammability: 0 Physical Hazard: 0 Personal Protection: X - See PPE section.

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Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

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 Supercedes Date:
 02/08/13

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1. IDENTIFICATION

Product Identifier: 70% ISOPROPYL ALCOHOL Date of Revision: January 31, 2018

Product Code: G697

Other Name(s): Distributed By:

Recommended Use and Restrictions on Use:

Manufactured By: Ostrem Chemical Co. Ltd. Phone: 780-440-1911

2310 - 80th Avenue NW In Case of Emergency Only, Phone

Edmonton, Alberta, Canada T6P 1N2 CANUTEC: 613-996-6666

www.ostrem.com

#### 2. HAZARDS IDENTIFICATION

Classification of the Mixture: Eye Damage/Irritation - Category 2A

Specific Target Organ Toxicity (Single Exposure) - Category 3

Flammable Liquids - Category 2

**Label Elements:** 

Hazard Pictogram(s):





Signal Word: DANGER

Hazard Statement(s): Causes serious eye irritation.

May cause drowsiness or dizziness. Highly flammable liquid and vapour.

**Precautionary Statement(s):** 

Prevention: Wash hands thoroughly after handling.

Avoid breathing dust, vapours or spray. Use only outdoors or in a well-ventilated area.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Wear protective gloves, protective clothing, and eye/face protection.

Response: 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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison centre or physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

Storage: Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

# Physical/health hazards not otherwise classified:

not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical NameConc.CAS #Common Namesisopropanol (99%)65 - 85%67-63-0isopropyl alcohol

# 4. FIRST-AID MEASURES

70% ISOPROPYL ALCOHOL Page 1 of 4

#### **Necessary Measures:**

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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison centre or physician if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

#### Most important symptoms, both acute and delayed:

Causes serious eye irritation.

May cause drowsiness or dizziness.

# Indication of immediate medical attention and special treatment needed, if necessary:

not applicable

#### 5. FIRE-FIGHTING MEASURES

#### Suitable (and unsuitable) extinguishing media:

Use extinguishing media appropriate for surrounding fire.

#### Specific hazards arising from the chemical (e.g.: hazardous combustion products):

May liberate carbon monoxide and carbon dioxide.

# Special protective equipment and precautions for firefighters:

As for surrounding fire. Firefighters should wear full protective clothing and self contained breathing equipment.

## **6. ACCIDENTAL RELEASE MEASURES**

# Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective equipment. See section 8.

#### **Environmental precautions:**

Prevent from entering sewers, waterways or low areas.

#### Methods and materials for containment and cleaning up:

Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling:

Wash hands thoroughly after handling.

Avoid breathing dust, vapours or spray.

Use only outdoors or in a well-ventilated area.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not ingest. Avoid contact with eyes, skin and clothing.

#### Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep cool.

Keep container tightly closed.

Keep out of reach of children. Store in a cool, dry area.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters - Exposure limits:

<u>Ingredient:</u> <u>Limit:</u>

isopropanol (99%)

ACGIH TWA: 200 ppm

STEL 400 ppm

#### Appropriate engineering controls:

Provide exhaust ventilation to keep airborne levels below recommended exposure limits.

#### Respiratory protection:

If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator.

#### Other protection:

Wear protective gloves, protective clothing, and eye/face protection.

70% ISOPROPYL ALCOHOL Page 2 of 4

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

colourless liquid Appearance (physical state, colour etc.): Odour: strong alcohol odour

not available **Odour threshold:** pH: neutral -16°F / -26°C Melting/Freezing point: Initial boiling point and range: not available

Flash point: 12 C

**Evaporation rate:** not available Flammability (solid, gas): not available Upper/lower flammability or explosive limits: not available Vapour pressure: not available not available Vapour density: Relative density (specific gravity): 0.856 100% Solubility(ies): not available Partition co-efficient: n-octanol/water: not available Auto-ignition temperature: **Decomposition temperature:** not available not available Viscosity:

## 10. STABILITY AND REACTIVITY

# Reactivity:

This material is considered to be non-reactive under normal use conditions.

#### Chemical stability:

Stable.

# Possibility of hazardous reactions:

not available

#### Conditions to avoid (e.g.: static discharge, shock or vibration):

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Incompatible materials:

Oxidizers

#### Hazardous decomposition products:

not available

## 11. TOXICOLOGICAL INFORMATION

#### POTENTIAL ACUTE HEALTH EFFECTS

Inhalation: May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. Eye contact: Causes serious eye irritation. May cause mild skin irritation. Skin contact:

not available Skin absorption:

# POTENTIAL CHRONIC HEALTH EFFECTS

not available Inhalation: not available Ingestion: Eye contact: not available not available Skin contact: Skin absorption: not available

Mutagenicity: not available

This information, if applicable, can be found in Section 2. Carcinogenicity: Reproductive toxicity: This information, if applicable, can be found in Section 2. This information, if applicable, can be found in Section 2. Sensitization of product: Specific Target Organ Toxicity - single exposure: This information, if applicable, can be found in Section 2.

70% ISOPROPYL ALCOHOL Page 3 of 4

Specific Target Organ Toxicity - repeated exposure: This information, if applicable, can be found in Section 2.

**Toxicological Data:** 

<u>Ingredient:</u> <u>Data:</u>

isopropanol (99%) not available

Other Toxicological Information on Ingredients:

# 12. ECOLOGICAL INFORMATION

Ecotoxicity (aquatic and terrestrial, where available):

Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

not available
not available
not available
not available

## 13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal of all waste must be done according to local, provincial and federal regulations.

# 14. TRANSPORT INFORMATION

TDG classification: UN 1219; ISOPROPYL ALCOHOL; CLASS 3; PG II

# 15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

## 16. PREPARATION INFORMATION

**Prepared by:** Technical Services Department, Ostrem Chemical Co. Ltd., Ph.: 780-440-1911

Date of Preparation: January 27, 2017

Date of Revision: January 31, 2018

This Safety Data Sheet may not be changed or altered in any way without the express knowledge and permission of Ostrem Chemical Co. Ltd.

**End of Document** 

70% ISOPROPYL ALCOHOL Page 4 of 4

Material Safety Data Sheet May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200, Standard must be consulted for specific requirements.	U.S. Department of Labor Occupational Safety and Health Administrat (Non-Mandatory Form) Form Approved	ion
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Section 1 CAS# 56-81-5	information is evaluable, the specia must be m	rhad to incicate t
	Emergency Telephone Number	
Address (Parties, Street, City, Same, and ZiP Code)	903-793-3174	
1008 Whitaker Street	Telephone Number for Information	
Tevarkana, TX 75501	Case Propered Pipe	
75501	Signature of Preparer (opposite)	3 1990
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Section II — Hazardous Ingredients/Identity Info	rmation	
Hazardous Components (Specific Chemical Identity: Common N		
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	Amposition or Bypro		Oxidizing material
		مرجع	Acrolein
Hazardous · Polymerization	May Occur		Conditions to Avoid
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ction VIII — For to Se Taken is Small and Large spinal Memoral	Procedures  Proced	See  Oxvo Safe H  Grate  arou  Storing  c car  d.	above  exposed to heated vapors, remove to fresh air/adm.  den and call physician.  dending and Use  or Spied  h absorbent material, soak up & sweep into drum.  nd spill & pump into suitable container.  in accordance with local, state & Federal regulative and caution.  The and caution.  Series  One recommend control of mice.
ction VIII — For to Se Taken is Small and Large spinary and Francisco services one spectromagnet on spe	Procedures  Proced	See  Oxvo Safe H  Grate arou  Storing c car d.	above  exposed to heated vapors, remove to fresh air/adm.  den and call physician.  dending and Use  or Spied  h absorbent material, soak up & sweep into drum.  nd spill & pump into suitable container.  in accordance with local, state & Federal regulative and caution.  The and caution.  Series  One recommend control of mice.
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# **SAFETY DATA SHEET**

1. Identification

Product identifier Acid Demand Reagent (ADR)

Product code R-0853

**Recommended use**Use as directed by manufacturer for purposes directly related to water testing.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name** Taylor Technologies, Inc.

Address 31 Loveton Circle

Sparks, MD 21152

**United States** 

**Telephone** (410) 472-4340 Monday–Friday, 8:00 a.m.–4:30 p.m.

Website www.taylortechnologies.com

E-mail Not available
Emergency phone number (800) 837-8548

2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Health hazards** Eye damage/irritation Category 2A

Skin corrosion/irritation Category 2

**Environmental hazards** 

Label elements

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.



Signal word Warning

Hazard statement Causes serious eye irritation. Causes skin irritation.

Precautionary statement

**Prevention** Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection.

Response IF ON SKIN: Wash with plenty of water.

IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off all contaminated clothing and wash it before reuse.

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.

Storage None required Disposal None required

Hazard(s) not otherwise classified None
Supplemental information None

Material name: Acid Demand Reagent (ADR); R-0853

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	99
Sulfuric acid	Hydrogen sulfate; Oil of vitriol	7664-93-9	0.01–0.1

# 4. First-aid measures

Inhalation Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention

immediately.

Skin contact Immediately wash skin with soap and water. If symptoms persist or in all cases of concern, seek

medical advice.

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if Eye contact

present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek

medical advice.

Ingestion Treat symptomatically. Never give anything by mouth to a person who is unconscious or is

having convulsions. Do NOT induce vomiting unless directed by physician. If symptoms persist or

in all cases of concern, seek medical advice.

Most important

symptoms/effects, acute

and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness

and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Indication of immediate medical attention and special treatment needed

**General information** 

Provide general supportive measures and treat symptomatically.

Ensure medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

# 5. Firefighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment

and precautions for firefighters

Firefighting equipment/instructions Water fog. Foam. Dry chemical powder. Carbon dioxide. Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-

extinguishing water from contaminating surface water or the ground water system. Use standard firefighting procedures and consider the hazards of other involved materials.

Specific methods General fire hazards No unusual fire or explosion hazards noted **Hazardous combustion** Sulfur oxides. Other irritating fumes and smoke.

products

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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Dilute acid with water and neutralize with dilute base. If not recoverable, dilute with water or flush to holding area and neutralize. Contaminated absorbent material may pose the same hazards as the spilled product.

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental precautions** 

Avoid discharge into drains, watercourses, or onto the ground.

# 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in corrosive-resistant container with a corrosive-resistant inner liner. Store in original tightly closed container. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS).

# 8. Exposure controls/personal protection

#### Occupational exposure limits

## U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m <sup>3</sup>	Not applicable
U.S. ACGIH Threshold Limit Values			
Components	Type	Value	Form
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m <sup>3</sup>	Thoracic fraction
U.S. NIOSH: Pocket Guide to Chemi	cal Hazards		
Components	Туре	Value	Form
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m <sup>3</sup>	Not applicable

**Biological limit values** 

No biological exposure limits noted for the ingredient(s)

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 Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency

eyewash fountain and quick-drench shower in the immediate work area.

Skin protection

**Hand protection** Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other Wear appropriate chemical-resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

**Thermal hazards** When necessary, wear appropriate thermal protective clothing.

General hygiene considerations

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 contamination. Avoid breathing mist or vapor.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid Form Liquid

Color Clear colorless or nearly colorless

Odor Odorless
Odor threshold
Not available

**pH** 2

**Melting point/freezing point**Not available **Initial boiling point and boiling**212°F (100°C)

range

Flash point Not applicable (does not burn)

Evaporation rate Not available Flammability (solid, gas) Not applicable

Upper/lower flammability or

explosive limits

Flammability limit, Not applicable

lower (%)

Flammability limit, Not applicable

upper (%)

Explosive limit, Not applicable

lower (%)

Explosive limit, Not applicable

upper (%)

Vapor pressure 17 mm Hg

Vapor density 0.6

Relative density 1.00 g/cm<sup>3</sup>

Solubility(ies)

Solubility (water) Soluble in all proportions

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot applicableDecomposition temperatureNot availableViscosityNot available

Other information

Explosive properties Not applicable

Oxidizing properties Not applicable

Percent volatile 100% Specific gravity 1.00

# 10. Stability and reactivity

**Reactivity** This product is stable and nonreactive 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**Contact with incompatible materials. Do not use in areas without adequate ventilation.

**Incompatible materials** Metal compounds. Nitromethane. Oxidizing agents. Sugars.

Hazardous decomposition

products

None known. For hazardous combustion products, refer to section 5 of the SDS.

# 11. Toxicological information

Information on likely routes of exposure

InhalationMay cause irritation to the respiratory systemSkin contactMay cause slight or mild transient irritation

Eye contact May cause severe irritation

**Ingestion** May cause irritation, nausea, vomiting, and diarrhea

Most important symptoms/effects, acute

symptoms/effects, acute and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness

and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient

acute toxicity data.

Components Species Test Results

Sulfuric acid (CAS 7664-93-9)

Acute

Dermal

LD<sub>50</sub> Rabbit Not available

Inhalation

LC<sub>50</sub> Rat 0.375 mg/L, 4 hours (mist)

Oral

 $LD_{50}$  Rat 2140 mg/kg

Deionized water (CAS 7732-18-5)

Acute

Dermal

LD<sub>50</sub> Rabbit Not available

Inhalation

LC<sub>50</sub> Rat Not available

Oral

 $LD_{50}$  Rat >89840 mg/kg

Skin corrosion/irritation Causes skin irritation

Serious eye damage/eye

irritation

Causes severe eye irritation

**Respiratory sensitization**Not expected to be a respiratory sensitizer **Skin sensitization**Not expected to be a skin sensitizer

Germ cell mutagenicity Not expected to be mutagenic

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, OSHA, or U.S. ACGIH.

Occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans. The information located is insufficient to conclude that sulfuric acid itself is a carcinogen. IARC has concluded there is sufficient evidence that occupational exposure to strong inorganic acid mists containing sulfuric acid is carcinogenic to humans (Group 1). ACGIH has designated strong inorganic acid mists containing sulfuric acid as A2 (suspected human carcinogen). US NTP has listed strong inorganic acid mists containing sulfuric acid as a known human carcinogen. These classifications are for inorganic acid mists containing sulfuric acid and

do not apply to sulfuric acid or sulfuric acid solutions.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity,

single exposure

Not classified as a specific target organ toxicity - single exposure

Specific target organ toxicity,

repeated exposure

Not classified as a specific target organ toxicity – repeated exposure

Aspiration toxicity Not expected to be an aspiration hazard

**Chronic effects** Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

# 12. Ecological information

**Ecotoxicity**This 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.

Components Species Test Results

Sulfuric acid (CAS 7664-93-9) - Aquatic

Acute Algae

EC<sub>50</sub> Green algae (Pseudokirchneriella >100 mg/L, 72 hours

subcapitata)

Crustacea

EC<sub>50</sub> Water flea (Daphnia magna) 29 mg/L, 24 hours

Fish

LC<sub>50</sub> Bluegill (Lepomis macrochirus) 16–28 mg/L, 96 hours

Persistence and degradability Not available Bioaccumulative potential Not available

Mobility in soil High water solubility indicates a high mobility in soil.

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 instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion with the user, the producer, and the waste

disposal company.

Waste from residues/unused

products

Empty containers or liners may retain some product residues. This material and its container

must be disposed of in a safe manner (refer to Disposal instructions).

Contaminated packaging 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. Transportation information

DOT

Not regulated as dangerous goods

**IATA** 

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

Not available

## 15. Regulatory information

**U.S. federal regulations**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 (40 CFR 302.4)

Sulfuric acid (CAS 7664-93-9)

SARA 304 Emergency Release Notification

Sulfuric acid (CAS 7664-93-9) 1000 lb.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate hazard – yes

Delayed hazard – no Fire hazard – no Pressure hazard – no Reactivity hazard – yes

#### **SARA 302 Extremely Hazardous Substance**

Chemical name	CAS number	Reportable quantity (lb.)	Threshold planning quantity (lb.)	Threshold planning quantity lower value	Threshold planning quantity upper value
Sulfuric acid	7664-93-9	1000	1000	Not applicable	Not applicable
0.1.0.1.1.0.1.0.1.1					

#### SARA 311/312 Hazardous Chemical

Not regulated

#### SARA 313 (TRI reporting

SARA 313 (TRI repo	rting)	
Chemical name	CAS number	% by weight
Sulfuric acid	7664-93-9	0.1–5

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric acid (CAS 7664-93-9)

# Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Sulfuric acid (CAS 7664-93-9)

# Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

6552

Sulfuric acid (CAS 7664-93-9) 20% W/V **DEA Exempt Chemical Mixtures Code Number**Sulfuric acid (CAS 7664-93-9) 6552

Safe Drinking Water Act (SDWA)

Not regulated

# U.S. state regulations

#### California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not regulated

#### Massachusetts Right-to-Know Act

Sulfuric acid (CAS 7664-93-9)

#### New Jersey Worker and Community Right-to-Know Act

Sulfuric acid (CAS 7664-93-9)

# Pennsylvania Worker and Community Right-to-Know Act

Sulfuric acid (CAS 7664-93-9)

#### Rhode Island Right-to-Know Act

Sulfuric acid (CAS 7664-93-9)

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### California Proposition 65 - CRT: Listed date/carcinogenic substance

Sulfuric acid (CAS 7664-93-9) This product is not an inorganic acid mist containing sulfuric acid; therefore, the Proposition 65 statement does not apply.

# International inventories

Country(ies) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	yes
Canada	Domestic Substances List (DSL)	yes
Canada	Non-Domestic Substances List (NDSL)	no

Country(ies) or region	Inventory name	On inventory
		(yes/no)*
China	Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	yes
Europe	European List of Notified Chemical Substances (ELINCS)	no
Japan	Existing and New Chemical Substances (ENCS)	yes
Korea	Existing Chemicals List (ECL)	yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	yes

<sup>\*</sup>A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies).

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

#### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAA: Clean Air Act

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations
CSA: Canadian Standards Association
DEA: Drug Enforcement Agency
DOT: Department of Transportation
DSL: Domestic Substances List
EC: effective concentration
ECL: Existing Chemicals List

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

**ENCS: Existing and New Chemical Substances** 

EPA: Environmental Protection Agency

HAP: hazardous air pollutants

HMIS: Hazardous Materials Identification System

HNOC: hazards not otherwise classified

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organization

IECSC: Inventory of Existing Chemical Substances Produced or Imported in China

IMDG: International Maritime Dangerous Goods

IUCLID: International Uniform Chemical Information Database

LC: lethal concentration

LD: lethal dose

MARPOL: marine pollution

MSHA: Mine Safety and Health Administration

NDSL: Non-Domestic Substances List NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NOEC: no observable effect concentration

NTP: National Toxicology Program

NZIoC: New Zealand Inventory of Chemicals

OECD: Organisation for Economic Co-operation and Development

OEL: occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limits

PICCS: Philippine Inventory of Chemicals and Chemical Substances

PPE: personal protective equipment

RCRA: Resource Conservation and Recovery Act

RQ: reportable quantity

RTECS: Registry of Toxic Effects of Chemical Substances

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(ies).

RTK: right to know

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

SDWA: Safe Drinking Water Act STEL: short-term exposure limit TLV: threshold limit values

TSCA: Toxic Substances Control Act

TWA: time-weighted average VOC: volatile organic compounds WEL: workplace exposure limit

Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

License granted to make unlimited paper copies for internal use only. This Safety Data Sheet may not be changed, or altered, in any way without the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and

the most current data available.

Issue dateApril 2015Last revisionApril 2015



# MATERIAL SAFETY DATA SHFFT

# 1. Product and Company Identification

**Product Name** 

AIR WICK® Air Freshener (Aerosols All Scents)

CAS#

Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with

the applicable government regulation.

Air freshener

Product Use

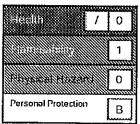
Distributed by

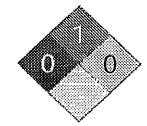
Reckitt Benckiser Morris Corporate Center IV 399 Interpace Parkway P.O. Box 225

Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-338-6167 Transportation Emergencies: 24 Hour Number: North America: CHEMTREC: 1-800-424-9300 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA Severe Serious 3 Moderate 2 Slight 1 Minimal 0





# 2. Hazards Identification

**Emergency overview** 

CAUTION

EYE IRRITANT. Prolonged or frequent skin contact may cause an allergic reaction. CONTENTS UNDER PRESSURE.

DO NOT spray towards face. Avoid contact with eyes and skin. CONTAINER MAY EXPLODE IF HEATED. Do not puncture or incinerate container. DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container may burst.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Potential short term health effects

Routes of exposure

Eye, Skin contact, Inhalation.

Eyes

None expected during normal conditions of use.

May cause eye irritation upon direct contact with the eyes.

Skin

None expected during normal conditions of use. Prolonged or frequent skin contact may cause an allergic reaction.

None expected during normal conditions of use.

Intentional misuse by deliberately concentrating and inhaling the contents may be

harmful or fatal.

Ingestion

Inhalation

Health injuries are not known or expected under normal use.

Target organs

Eyes.

Chronic effects

The finished product is not expected to have chronic health effects.

Signs and symptoms

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

**OSHA Regulatory Status** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910,1200.

Potential environmental effects

This product has not been tested.

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3. Co		
Propane	CAS#	Percent
Butane	74-98-6	7 - 13
Ethane, 1,1-difluoro-	106-97-8	10 - 30
Luale, 1,1-diluoro-	75-37-6	10 ~ 30
	4. First Aid Measures	
First aid procedures		······································
Eye contact	If in eyes, IMMEDIATELY rinse eyes with plenty of water. Remove ar and continue rinsing eyes for at least 15 minutes. If irritation persists, attention.	get medical
Skin contact	If on skin, wash with soap and water. If Irritation develops, get medical	al attention.
Inhalation	Move to fresh air in case of accidental inhalation of vapors.	
Ingestion	Rinse mouth with water and drink afterwards plenty of water. DO NO VOMITING.	T INDUCE
Notes to physician	Treat patient symptomatically.	
General advice	Do not puncture or incinerate container. Keep away from sources of its smoking. If you feel unwell, seek medical advice (show the label wher that medical personnel are aware of the material(s) involved, and take protect themselves. Show this safety data sheet to the doctor in attended with eyes and skin. Keep out of reach of children.	e possible). Ensure
	NOTE TO PARENTS: Intentional misuse by deliberately concentrating aerosol products may be harmful or fatal. Help stop inhalation abuse; www.inhalant.org.	g and inhaling for information visi
	5. Fire Fighting Measures	
Flammable properties	Non-flammable aerosol by flame projection test.	
	NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B	
Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media Protection of firefighters	Dry chemical. Foam. Water. Water spray.	
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exflame. Cool containers with flooding quantities of water until well after	xposed to heat or fire is out.
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained apparatus.	d breathing
lazardous combustion products Explosion data	May include and are not limited to: Oxides of carbon.	
Sensitivity to mechanical impact	Not available	
Sensitivity to static discharge	Not available	
	6. Accidental Release Measures	
Personal precautions	Do not touch or walk through spilled material. Do not touch damaged of	
Environmental precautions	spilled material unless wearing appropriate protective clothing. Keep p and upwind of spill/leak. Keep unnecessary personnel away.  Prevent further leakage or spillage if safe to do so.  Do not contaminate water.  Do not allow material to contaminate ground water system.	eople away from
lethods for containment	Advise authorities if product has penetrated drains, sewers or water pi Eliminate all ignition sources (no smoking, flares, sparks, or flames in i Stop leak if you can do so without risk. Prevent entry into waterways, sor confined areas.	mmediale area)

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# Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or loak is unlikely in acrosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

# Handling and Storage

Handling

Storage

Ensure adequate ventilation.

DO NOT spray towards face.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn after use. Keep away from all sources of ignition. Fires involving aerosols with flammable contents are severe and can spread quickly. Warehouses or stores containing aerosols should therefore be separated from other areas by a fire resistant construction. Stores should be well ventilated. The natural ventilation in a large group warehouse building a large group warehouse building and the second process.

ventilation in a large open warehouse building will normally be suitable. Do not spray on a naked flame or any other incandescent material. Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

DO NOT expose to heat or store at temperatures above 120°F (49°C) as the container

may burst.

Do not puncture or incinerate container. CONTAINER MAY EXPLODE IF HEATED.

Keep away from heat, open flames or other sources of ignition.

Store in a cool place.

Keep out of reach of children.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

# 8. Exposure Controls / Personal Protection

Exposure limits Ingredient(s)	Exposure Limits	<del></del>
Butane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL Not established	
Ethane, 1,1-difluoro-	ACGIH-TLV  Not established  OSHA-PEL  Not established	
Propane	ACGIH-TLV TWA: 1000 ppm OSHA-PEL	<b>4</b>

Engineering controls

Personal protective equipment

Provide adequate ventilation.

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or

prolonged exposure.

Eye / face protection

Not required under normal use conditions. Emergency responders should wear full eye and face protection.

Hand protection

No special requirements under normal use conditions. Emergency responders should wear impermeable gloves.

TWA: 1000 ppm

Skin and body protection

No special requirements under normal use conditions. Prolonged or frequent skin contact may produce an allergic reaction in some

individuals.

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Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean up

operations.

General hygiene considerations

Avoid contact with skin, eyes and clothing.

Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

# 9. Physical and Chemical Properties

Appearance	Aerosol.
Color	Clear
Form	Misty spray
Odor	Characteristic
Odor threshold	Not available
Physical state	Gas
рH	Not available
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	Not available
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available

# 10. Stability and Reactivity

Reactivity	This product may react with oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under renaminanded eteres

Stable under recommended storage conditions.

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition.

Protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Extremes of temperatures can occur in cars and near ovens and fireplaces.

Do not place in contact with hot surfaces or near naked flames.

Do not pierce or burn after use.

Do not spray on a naked flame, onto or near a fire, or any incandescent material such as

an electric fire.

Aerosol containers are unstable at temperatures above 49°C (120.2°F).

Incompatible materials

Caustics. Oxidizers. Acids.

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

# 11. Toxicological Information

Component analysis - LC50		·
ingredient(s)	LC50	
Butane	Not available	<del>-</del>
Ethane, 1,1-difluoro-	> 64000 ppm rat	<del></del>
Propane	Not available	

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Component analysis - Oral LD50

Ingredient(s)

LD50

Butane	Not available	
Ethane, 1,1-difluoro-	1500 mg/kg rat	
Propane	Not available	

Effects of acute exposure

Eye

None expected during normal conditions of use.

May cause eye irritation upon direct contact with the eyes.

Skin

None expected during normal conditions of use.

Prolonged or frequent skin contact may cause an allergic reaction.

Inhalation None expected during normal conditions of use.

Intentional misuse by deliberately concentrating and inhaling the contents may be

harmful or fatal.

Ingestion Sensitization

Health injuries are not known or expected under normal use. The finished product is not expected to have chronic health effects.

Chronic effects Carcinogenicity Mutagenicity Reproductive effects

The finished product is not expected to have chronic health effects. The finished product is not expected to have chronic health effects. The finished product is not expected to have chronic health effects. The finished product is not expected to have chronic health effects.

The finished product is not expected to have chronic health effects.

Name of Toxicologically Synergistic Not available

**Products** 

Teratogenicity

# Ecological Information

**Ecotoxicity** This product has not been tested. Not available

Persistence / degradability Bioaccumulation / accumulation Mobility in environmental media

Not available Not available Not available Not available

Environmental effects Aquatic toxicity Partition coefficient Chemical fate information

Not available Not available

# 13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations.

Container disposal: Empty containers may be included with domestic refuse for disposal to a landfill. This container may also be recycled in communities where aerosol container recycling is available. Before offering for recycling, empty the can or use the product

according to the label instructions.

Waste from residues / unused

products

Not available

Contaminated packaging

Not available

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	14. Transport Information		
U.S. Department of Transportation (	U.S. Department of Transportation (DOT)		
	UN 1950, Aerosols, Class 2.1, Limited Quantity		
Transportation of Dangerous Goods	(TDG - Canada)		
	UN 1950, Aerosols, Class 2.1, Limited Quantity		
IMDG (Marine Transport)			
	UN 1950, Aerosols, Class 2.1, Limited Quantity		
IATA/ICAO (Air)			
	UN 1950, Aerosols, Flammable, Class 2.1		

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# 15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical **US Federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical No

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Not available

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

Present

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Butane 106-97-8

U.S. - Massachusetts - Right To Know List

Butane 106-97-8

Present Ethane, 1,1-difluoro-75-37-6 Present Propane 74-98-6 Present

U.S. - Minnesota - Hazardous Substance List

Butane 106-97-R Present

Propane 74-98-6 Simple asphyxiant

U.S. - New Jersey - Right to Know Hazardous Substance List

Butane 106-97-8 sn 0273 Ethane, 1,1-dilluoro-75-37-6 sn 0715 Propane 74-98-6 sn 1594

U.S. - Pennsylvania - RTK (Right to Know) List

106-97-8 Present Propage 74-98-6 Present

U.S. - Rhode Island - Hazardous Substance List Butane

106-97-8 Toxic: Flammable Propane 74-98-6 Toxic; Flammable

Inventory status

Country(s) or region United States & Puerto Rico

Inventory name

On inventory (yes/no)\*

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)

# 16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. 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.

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#### Further information

AIR WICK® 4-In-1 Air Freshener - Apple Cinnamon Medley, 8 oz - 0.188360v2.0 AIR WICK® 4-In-1 Air Freshener - Cool Linen & White Lilac, 8 oz - 0.192143v2.0 AIR WICK® 4-In-1 Air Freshener - Fresh Waters, 8 oz - 0192143v2.0

AIR WICK® 4-In-1 Air Freshener - Lavender & Chamomile, 8 oz - 0121604v2.0 AIR WICK® 4-In-1 Air Freshener - Magnolia & Cherry Blossom, 8 oz - 0188398v2.0
AIR WICK® 4-In-1 Air Freshener - Papaya & Mango, 8 oz - 0188364v2.0
AIR WICK® 4-In-1 Air Freshener - Rain Garden, 8 oz - 018837v2.0

AIR WICK® 4-In-1 Air Freshener - Sparkling Citrus, 8 oz - 0188375v2.0 AIR WICK® 4-In-1 Air Freshener - Vanilla Indulgence, 8 oz - 0188341v2.0 AIR WICK® Air Freshener - Serene Waters (National Parks - Glacier Bay), 8 oz -0192143v2.0

AIR WICK® Air Freshener - Tropical Sunset (National Parks - Hawaii), 8 oz -

0.188364v2.0

AIR WICK® Air Freshener - Vanilla Sugar Cookies (Festive Moments), 8 oz -

0299270v2.0

AIR WICK Air Freshener - Warm Apple Pie (Festive Moments), 8 oz - 0340663v1.0 26-Sep-2012

Issue date

Effective date

15-Sep-2012

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

#23109



According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/15/2015

Version: 1.0

#### **SECTION 1: Identification**

#### **Product Identifier**

Product Form: Mixture Product Name: Alcare OR® Foamed Antiseptic Handrub Product Code: 6396

#### **Intended Use of the Product**

Use of the substance/mixture: Hand Sanitizer. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

Company STERIS Corporation Official Mailing Address: P.O. Box 147

St. Louis, MO 63166 USA

Street Address: 7501 Page Avenue St. Louis, MO 63133 USA

Telephone Number for Information: 1-800-548-4873 (Customer Service-Healthcare Products)

web: www.steris.com

email: asksteris\_msds@steris.com

#### **Emergency Telephone Number**

**Emergency Number** : 1-314-535-1395 or CHEMTREC: 1-800-424-9300

#### **SECTION 2: Hazards Identification**

#### **Classification of the Substance or Mixture**

Classification (GHS-US)

Flam. Aerosol 2 H223, H229 Eye Irrit. 2A H319 Full text of H-phrases: see section 16

#### Label Elements - This label is regulated by the FDA and is exempt from GHS labeling.

FDA Product Labeling

: This product is regulated by the FDA, therefore, the requirements for product labeling do not fall under the jurisdiction of the OSHA Hazard Communication Standard according to 29 CFR 1910.1200.

Hazard Pictograms (GHS-US)





Signal Word (GHS-US)

Warning

Hazard Statements (GHS-US) H223 - Flammable aerosol.

H229 - Pressurized containers; may burst if heated.

H319 - Causes serious eye irritation.

Precautionary Statements (GHS-US) P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.

P251 - Pressurized container: Do not pierce or burn, even after use.

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.

P370+P378 - In case of fire: Use appropriate media to extinguish.

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 49 °C/120 °F. P501 - Dispose of contents/container in accordance with local, regional, national, and

international regulations.

#### 2.3. **Other Hazards**

Other Hazards: No additional information available

# **Unknown Acute Toxicity (GHS-US)**

No data available

# SECTION 3: Composition/Information On Ingredients

#### **Substance**

Not applicable

#### **Mixture**

Name	Product identifier	%	Classification (GHS-US)

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# **Foamed Antiseptic Handrub**

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Ethyl alcohol	(CAS No) 64-17-5	30-60 (62% by volume)	Flam. Liq. 2, H225 Eye Irrit. 2A, H319
1,1-Difluoroethane	(CAS No) 75-37-6	1-5	Simple Asphy Flam. Gas 1, H220 Liquefied gas, H280
Isobutane	(CAS No) 75-28-5	1-5	Simple Asphy Flam. Gas 1, H220 Liquefied gas, H280

Full text of H-phrases: see section 16

# **SECTION 4: First Aid Measures**

#### 4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid Measures After Skin Contact: Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid Measures After Ingestion: Rinse mouth. Do not induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes irritation.

Symptoms/Injuries After Inhalation: Not expected to be a primary route of exposure. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Not a primary skin irritant.

Symptoms/Injuries After Eye Contact: Direct spray will cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

# **SECTION 5: Fire-Fighting Measures**

### 5.1. Extinguishing Media

Suitable Extinguishing Media: Dry powder, alcohol-resistant foam, water in large amounts, carbon dioxide.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor. Extremely flammable aerosol.

Explosion Hazard: May form flammable/explosive vapor-air mixture.

Reactivity: Reacts with strong oxidants causing fire and explosion hazard.

#### 5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Do not allow run-off from fire fighting to enter drains or water sources. Do not breathe fumes from fires or vapours from decomposition. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>).

# **SECTION 6: Accidental Release Measures**

# 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

### 6.1.2. For Emergency Responders

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

# 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

# 6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material. Use only non-sparking tools.

## 6.4. Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

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# **Foamed Antiseptic Handrub**

# Safety Data Sheet

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# **SECTION 7: Handling And Storage**

#### 7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable. Pressurized container: Do not pierce or burn, even after use.

Precautions for Safe Handling: Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Wear recommended personal protective equipment.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Not applicable

Storage Conditions: Store and use at 55-85°F (13-29°C), but not above 120°F (49°C). Close container after use. Store at normal room

temperature for 24-48 hours following any prolonged exposure to the cold. Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

Incompatible Materials: Heat sources.

#### 7.3. Specific End Use(s) No additional information available

# SECTION 8: Exposure Controls/Personal Protection

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Ethyl alcohol (64-17-5)			
USA ACGIH	ACGIH STEL (ppm)	1000 ppm	
USA ACGIH	ACGIH chemical category  Confirmed Animal Carcinogen with Unknown Relevance Humans		
USA OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³	
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm	
USA IDLH	US IDLH (ppm) 3300 ppm (10% LEL)		
Isobutane (75-28-5)			
USA ACGIH	ACGIH STEL (ppm)	1000 ppm	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³	
USA NIOSH	NIOSH REL (TWA) (ppm)	800 ppm	

#### 8.2. Exposure Controls

Appropriate Engineering Controls : Ensure all national/local regulations are observed. Emergency eye wash fountains and safety

showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment : Not applicable.

Materials for Protective Clothing : Not required under normal use conditions.

Hand Protection : Not applicable. Eye Protection : Not applicable.

Skin and Body Protection : Wear suitable protective clothing.

Respiratory Protection : Normal room ventilation.

Consumer Exposure Controls : Do not eat, drink or smoke during use. Other Information : When using, do not eat, drink or smoke.

# **SECTION 9: Physical And Chemical Properties**

#### 9.1. Information on Basic Physical and Chemical Properties

Physical State : Liquid
Appearance : White Foam (Aerosol)

Odor Mild alcohol odor Odor Threshold No data available No data available pΗ Evaporation rate No data available Melting Point No data available Freezing Point No data available No data available **Boiling Point** Flash Point No data available Auto-ignition Temperature No data available **Decomposition Temperature** No data available

Flammability (solid, gas)

Vapor Pressure

Relative Vapor Density at 20 °C

No data available

No data available

No data available

No data available

Relative Density : No data available

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Solubility : Completely soluble in water

Partition coefficient: n-octanol/water : No data available Viscosity : No data available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact. Explosion Data – Sensitivity to Static Discharge : Not expected to present an explosion hazard due to static discharge.

#### 9.2. Other Information

No additional information available

#### **SECTION 10: Stability And Reactivity**

#### 10.1 Reactivity:

Reacts with strong oxidants causing fire and explosion hazard.

#### 10.2 Chemical Stability:

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

#### 10.3 Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

#### 10.4 Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials. Do not freeze.

#### 10.5 Incompatible Materials:

Strong acids. Strong bases. Strong oxidizers.

#### 10.6 Hazardous Decomposition Products:

Carbon oxides (CO, CO<sub>2</sub>).

#### **SECTION 11: Toxicological Information**

#### 11.1. Information On Toxicological Effects

Acute Toxicity: Not classified

Alcare OR®	
Foamed Antiseptic Handrub	
LD50 Oral Rat	>5,000 mg/kg
Ethyl alcohol (64-17-5)	
LD50 Oral Rat	10470 mg/kg
LD50 Dermal Rat	20 ml/kg
LC50 Inhalation Rat	124.7 mg/l/4h
Isobutane (75-28-5)	
LC50 Inhalation Rat	658 mg/l/4h

Skin Corrosion/Irritation: Not a primary skin irritant.

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified Teratogenicity: No data available Carcinogenicity: Not classified

#### Ethyl alcohol (64-17-5)

OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list
---	--

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: Not expected to be a primary route of exposure. May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause dermatitis and defatting.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: None expected under normal conditions of use.

# **SECTION 12: Ecological Information**

### 12.1. Toxicity

Ecology - General : Not classified.

Ethyl alcohol (64-17-5)	
LC50 Fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas (static))

#### 12.2. Persistence and Degradability

Alcare OR <sup>®</sup> Foamed Antiseptic Handrub	
Persistence and Degradability	Not established.

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# **Foamed Antiseptic Handrub**

# Safety Data Sheet

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Ethyl alcohol (64-17-5)	
Persistence and Degradability	Not established.

#### **Bioaccumulative Potential** 12.3.

Alcare OR <sup>®</sup> Foamed Antiseptic Handrub		
Bioaccumulative Potential	Not established.	
Ethyl alcohol (64-17-5)		
Log Pow	-0.32	
Bioaccumulative Potential	Not established.	
Isobutane (75-28-5)		
BCF fish 1	1.57 - 1.97	
Log Pow	2.88 (at 20 °C)	

#### **Mobility in Soil**

No additional information available

#### **Other Adverse Effects**

Other Information : Avoid release to the environment.

# **SECTION 13: Disposal Considerations**

# Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local/regional/national/international regulations. Additional Information: Handle empty containers with care because residual vapors are flammable. Do not puncture or incinerate container.

# **SECTION 14: Transport Information**

#### 14.1 In Accordance with DOT

Proper Shipping Name AEROSOLSflammable, (each not exceeding 1 L capacity)

Hazard Class 2.1 Identification Number UN1950 **Label Codes** 2.1 LTD QTY

**ERG Number** 126

#### In Accordance with IMDG

Proper Shipping Name **AEROSOLS Hazard Class** 

Identification Number UN1950 Label Codes 2.1 LTD QTY

EmS-No. (Fire) F-D S-U EmS-No. (Spillage)



# In Accordance with IATA

Proper Shipping Name AEROSOLS, FLAMMABLE

Identification Number UN1950 **Hazard Class** 2 Label Codes 2.1 LTD QTY



ERG Code (IATA) 10L

Appropriate markings/labels not supplied on case - case requires full shipping name and flammable

diamond.

126

#### In Accordance with TDG 14.4

Proper Shipping Name AEROSOLSflammable, (each not exceeding 1 L capacity)

**Hazard Class** 2.1 **Identification Number** UN1950 Label Codes 2.1 LTD QTY



# **SECTION 15: Regulatory Information**

#### **US Federal Regulations**

**ERG Number** 

Total College and Trogunations					
Alcare OR®					
Foamed Antiseptic Handrub					
SARA Section 311/312 Hazard Classes Fire hazard					
	Immediate (acute) health hazard				
Ethyl alcohol (64-17-5)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					

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# **Foamed Antiseptic Handrub**

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#### 1,1-Difluoroethane (75-37-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Isobutane (75-28-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### **US State Regulations**

#### Ethyl alcohol (64-17-5)

- U.S. Massachusetts Right To Know List U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

# 1,1-Difluoroethane (75-37-6)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List

#### Isobutane (75-28-5)

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

#### 15.3. Canadian Regulations

Not applicable.

# SECTION 16: Other Information, Including Date Of Preparation Or Last Revision

Revision date

Other Information This document has been prepared in accordance with the SDS requirements of

the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### GHS Full Text Phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Aerosol 1	Flammable aerosol Category 1
Flam. Gas 1	Flammable gases Category 1
Flam. Liq. 2	Flammable liquids Category 2
Liquefied gas	Gases under pressure Liquefied gas
Simple Asphy	Simple Asphyxiant
Skin Irrit. 2	Skin corrosion/irritation Category 2
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapor
H280	Contains gas under pressure; may explode if heated
H319	Causes serious eye irritation

NFPA Health Hazard : 1 - Exposure could cause irritation but only minor residual

injury even if no treatment is given.

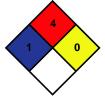
NFPA Fire Hazard : 4 - Will rapidly or completely vaporize at normal

atmospheric pressure and temperature, or is readily

dispersed in air and will burn readily

NFPA Reactivity 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



#### Party Responsible for the Preparation of This Document

STERIS Corporation

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.

SDS NA, GHS

04/15/2015 SDS Ref: 6396US EN (English US)



# **Material Safety Data Sheet**

Section 1. Chemical Product and Company Identification

Product name ANTI-BACTERIAL FOAMING HAND

SOAP (Green Link)

Product use Hands Soap.

Product code 1252

Date of issue 09/16/14 Supersedes 01/09/12

# **Emergency Telephone Numbers**

**For MSDS Information:** 

Technical Services Group Telephone (780) 453-8100

(Business Hours 8:00am - 5:00pm)

#### For Medical or Transportation Emergency

CANUTEC (24 Hours)

(613) 996-6666 - Call Collect

#### Prepared By

Technical Services Group 11627 178th Street

Edmonton, Alberta T5S 1N6

#### Section 2. Hazards Identification

#### **Emergency overview**

Not expected to produce significant adverse health effects when the recommended instructions for use are followed.

No known significant effects or critical hazards. Avoid prolonged contact with eyes, skin and clothing.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

**Acute Effects** Routes of Entry Eye contact.

**Eyes** May cause eye irritation. Inflammation of the eye is characterized by redness, watering and

itching.

**Skin** No known significant effects or critical hazards. **Inhalation** No known significant effects or critical hazards.

**Ingestion** No data on acute toxicity of the product when ingested.

**Chronic effects** No known chronic effects from exposure.

Additional Information: See Toxicological Information (Section 11)

#### Section 3. Composition/Information on Ingredients

Name of Hazardous IngredientsCAS number% by WeightAMMONIUM LAURYL ETHER SULFATE; 2-(2-(2-(dodecyloxy)ethoxy)-; hydrogen32612-48-91 - 5sulfate; ammonium salt64-17-50.1 - 1

# Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Seek medical attention if irritation persists.

**Skin Contact** This product is formulated for use on the skin. Discontinue use if irritation and redness develop.

**Inhalation** Inhalation not likely under normal use conditions.

**Ingestion** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. If affected

person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Call

medical attendant, doctor, or poison control center immediately.

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Page: 1/3

#### Section 5. Fire Fighting Measures

**Flash Point** Not applicable. Flammable Limits Not applicable **Flammability** Non-combustible.

**Auto-ignition Temperature** 

Use an extinguishing agent suitable for the surrounding fire. **Fire-Fighting Procedures** 

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst.

**Products of Combustion** carbon oxides (CO, CO<sub>2</sub>)

**Explosion hazard** 

#### Section 6. Accidental Release Measures

**Spill Clean up** Large spills are unlikely due to packaging. Absorb with an inert material and place in an appropriate waste

disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to

local and regional authority requirements.

# Section 7. Handling and Storage

**Handling** Avoid contact with eyes. Do not ingest. Do not reuse product container.

Protect from freezing. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of **Storage** 

children.

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

#### **Exposure limits Product name**

No exposure limit value known.

# **Personal Protective Equipment (PPE)**

**Eyes** No special protection is required.

**Hands and** No special protective clothing is required.

**Body** 

**Respiratory** No respiratory protection needed under normal use conditions.

# Section 9. Physical and Chemical Properties

**Physical State** Liquid. [Clear. Thin liquid] Color Orange. [Light] pН 5.5 to 6.5 Odor Pleasant. Fragrance.

100°C (212°F) **Boiling Point** Vapor Pressure Not available. Specific Gravity 1.004 Vapor Density Not available.

**Solubility** Easily soluble in the following materials: cold water **Evaporation Rate** 1 (Water = 1)

and hot water.

VOC (Consumer) 0 g/L **Freezing Point** 

## Section 10. Stability and Reactivity

Stability and Reactivity The product is stable. None known.

Incompatibility

**Hazardous Polymerization** Under normal conditions of storage and use, hazardous polymerization will not occur.

Under normal conditions of storage and use, hazardous decomposition products should not be **Hazardous Decomposition Products** 

produced.

# Section 11. Toxicological Information

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

#### **Acute Toxicity**

Not available.

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#### Section 12. Ecological Information

#### **Aquatic Ecotoxicity**

Not available.

# Section 13. Disposal Considerations

#### **Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream Classification: Non-hazardous waste

Origin: RCRA waste.

# Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.					
IMDG Class	Not available.	Not available.	Not available.	-		

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG\*: Packing group

# Section 15. Regulatory Information

#### **Canada**

WHMIS (Canada)

Not controlled under WHMIS (Canada). Regulated under other Act

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.

#### Section 16. Other Information

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

1. Identification

Product identifier Base Demand Reagent (BDR)

Product code R-0006

**Recommended use**Use as directed by manufacturer for purposes directly related to water testing.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Taylor Technologies, Inc.

Address 31 Loveton Circle

Sparks, MD 21152

**United States** 

**Telephone** (410) 472-4340 Monday–Friday, 8:00 a.m.–4:30 p.m.

Website www.taylortechnologies.com

E-mail Not available
Emergency phone number (800) 837-8548

2. Hazard(s) identification

Physical hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards Eye damage/irritation Category 2A

**Health hazards** This mixture does not meet the classification criteria according to OSHA HazCom 2012.

**Environmental hazards** 

Label elements

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Signal word Warning

Hazard statement Causes serious eye irritation

Precautionary statement

**Prevention** Wash skin thoroughly after handling. Wear eye protection/face protection.

Response 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.

Storage None required Disposal None required

Hazard(s) not otherwise classified None
Supplemental information None

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	95–99
Sodium carbonate	Soda ash; Bisodium carbonate	497-19-8	0.1–5

Material name: Base Demand Reagent (BDR); R-0006

#### 4. First-aid measures

**Inhalation** Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention

immediately.

**Skin contact** Immediately wash skin with soap and water. If symptoms persist or in all cases of concern, seek

medical advice.

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if

present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek

medical advice.

Ingestion Treat symptomatically. Never give anything by mouth to a person who is unconscious or is

having convulsions. Do NOT induce vomiting unless directed by physician. If symptoms persist or

in all cases of concern, seek medical advice.

Most important symptoms/effects, acute

and delayed

and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Provide general supportive measures and treat symptomatically.

Indication of immediate medical attention and special treatment needed

**General information** 

Ensure medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

# 5. Firefighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment

and precautions for

firefighters

Firefighting

equipment/instructions

Water fog. Foam. Dry chemical powder. Carbon dioxide.

Do not use water jet as an extinguisher, as this will spread the fire.

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted

**Hazardous combustion** 

products

Carbon oxides. Sodium oxides. Other irritating fumes and smoke.

#### 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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all

applicable regulations.

**Environmental precautions** Avoid discharge into drains, watercourses, or onto the ground.

7. Handling and storage

Precautions for safe handling Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow.

Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe

good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities Store locked up. Store in corrosive-resistant container with a corrosive-resistant inner liner. Store in original tightly closed container. Keep only in the original container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS).

# 8. Exposure controls/personal protection

Occupational exposure limits

No occupational exposure limits noted for the ingredient(s)

**Biological limit values** No biological exposure limits noted for the ingredient(s)

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 Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency

> > eyewash fountain and quick-drench shower in the immediate work area.

Skin protection

Hand protection

Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other

Wear appropriate chemical-resistant clothing

In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA Respiratory protection

approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

Thermal hazards When necessary, wear appropriate thermal protective clothing.

General hygiene considerations

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 contamination.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid **Form** Liquid

Color Clear colorless or nearly colorless

Odor Odorless Odor threshold Not available

11.2 Ha

Melting point/freezing point Not available Initial boiling point and boiling 212°F (100°C)

range

Flash point Not applicable (does not burn)

**Evaporation rate** Not available Flammability (solid, gas) Not applicable

Upper/lower flammability or

explosive limits

Flammability limit, Not applicable

lower (%)

Flammability limit,

upper (%)

Not applicable

Explosive limit,

**Explosive limit,** 

Not applicable

lower (%)

Not applicable

upper (%)

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Vapor pressure 17 mm Hg Vapor density 0.6

Relative density 1.00 g/cm<sup>3</sup>

Solubility(ies)

Solubility (water) Soluble in all proportions

Partition coefficient Not available

(n-octanol/water)

Auto-ignition temperatureNot applicableDecomposition temperatureNot availableViscosityNot available

Other information

Explosive properties Not applicable

Oxidizing properties Not applicable

Percent volatile 99% Specific gravity 1.00

# 10. Stability and reactivity

**Reactivity**This product is stable and nonreactive 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 Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Aluminum. Ammonia. Fluorine. Lithium. Phosphorous pentoxide. Silver nitrate. Strong acids.

**Hazardous decomposition** 

products

None known. For hazardous combustion products, refer to section 5 of the SDS.

# 11. Toxicological information

Information on likely routes of exposure

InhalationMay cause irritation to the respiratory systemSkin contactMay cause slight or mild transient irritation

Eye contact May cause serious eye irritation

**Ingestion** May cause irritation, nausea, vomiting, and diarrhea

Most important

symptoms/effects, acute

and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness

and itching.

nd delayed Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient

acute toxicity data.

Components Species Test Results

Sodium carbonate (CAS 497-19-8)

Acute

Dermal

Demia

LD<sub>50</sub> Rabbit >2000 mg/kg

Inhalation

LC<sub>50</sub> Rat 2.3 mg/L, 4 hours (dust)

Oral

LD<sub>50</sub> Rat 2800 mg/kg

Deionized water (CAS 7732-18-5)

Acute Dermal

LD<sub>50</sub> Rabbit Not available

Inhalation

LC<sub>50</sub> Rat Not available

Oral

 $LD_{50}$  Rat >89840 mg/kg

**Skin corrosion/irritation** Causes skin irritation

Serious eye damage/eye

irritation

Causes severe eye irritation

**Respiratory sensitization** Not expected to be a respiratory sensitizer

Skin sensitization Not expected to be a skin sensitizer

Germ cell mutagenicity Not expected to be mutagenic

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, OSHA or U.S. ACGIH.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity,

single exposure

Not classified as a specific target organ toxicity – single exposure

Specific target organ toxicity,

repeated exposure

Not classified as a specific target organ toxicity – repeated exposure

Aspiration toxicity Not expected to be an aspiration hazard

**Chronic effects** Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

# 12. Ecological information

**Ecotoxicity**This 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.

Components Species Test Results

Sodium carbonate (CAS 497-19-8)

Acute Crustacea

EC<sub>50</sub> Water flea (Ceriodaphnia dubia) 200 mg/L, 48 hours

Fish

LC<sub>50</sub> Western mosquito fish (Gambusia affinis) 740 mg/L, 96 hours

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Not available

Not 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 instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion with the user, the producer, and the waste

disposal company.

Waste from residues/unused

products

Empty containers or liners may retain some product residues. This material and its container

must be disposed of in a safe manner (refer to Disposal instructions).

Contaminated packaging 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. Transportation information

DOT

Not regulated as dangerous goods

IATA

Not regulated as dangerous goods

**IMDG** 

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and

Not available

the IBC Code

### 15. Regulatory information

U.S. federal regulations

This product is known to be 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 (40 CFR 302.4)**

Disodium phosphate (CAS 7558-79-4)

#### SARA 304 Emergency Release Notification

Not regulated

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate hazard – yes

Delayed hazard – no Fire hazard – no Pressure hazard – no Reactivity hazard – no

#### SARA 302 Extremely Hazardous Substance

Not regulated

# SARA 311/312 Hazardous Chemical

Not regulated

#### SARA 313 (TRI reporting)

Not regulated

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP)

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

# Safe Drinking Water Act (SDWA)

Not regulated

# U.S. state regulations

#### California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not regulated

#### Massachusetts Right-to-Know Act

Not regulated

#### New Jersey Worker and Community Right-to-Know Act

Not regulated

# Pennsylvania Worker and Community Right-to-Know Act

Not regulated

# Rhode Island Right-to-Know Act

Not regulated

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International inventories

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

<sup>\*</sup>A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies).

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

#### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAA: Clean Air Act

**CAS: Chemical Abstract Services** 

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations CSA: Canadian Standards Association DEA: Drug Enforcement Agency DOT: Department of Transportation DSL: Domestic Substances List EC: effective concentration ECL: Existing Chemicals List

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

ENCS: Existing and New Chemical Substances

EPA: Environmental Protection Agency

HAP: hazardous air pollutants

HMIS: Hazardous Materials Identification System

HNOC: hazards not otherwise classified

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organization

IECSC: Inventory of Existing Chemical Substances Produced or Imported in China

IMDG: International Maritime Dangerous Goods

IUCLID: International Uniform Chemical Information Database

LC: lethal concentration

LD: lethal dose

MARPOL: marine pollution

MSHA: Mine Safety and Health Administration NDSL: Non-Domestic Substances List NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NOEC: no observable effect concentration

NTP: National Toxicology Program

NZIoC: New Zealand Inventory of Chemicals

OECD: Organisation for Economic Co-operation and Development

OEL: occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limits

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(ies).

PICCS: Philippine Inventory of Chemicals and Chemical Substances

PPE: personal protective equipment

RCRA: Resource Conservation and Recovery Act

RQ: reportable quantity

RTECS: Registry of Toxic Effects of Chemical Substances

RTK: right to know

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

SDWA: Safe Drinking Water Act STEL: short-term exposure limit TLV: threshold limit values

TSCA: Toxic Substances Control Act TWA: time-weighted average VOC: volatile organic compounds WEL: workplace exposure limit

The information in the Safety Data Sheet is offered for your consideration and guidance for safe

handling, use, storage, transportation, disposal, and release of this product and is not

considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in

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the most current data available.

Issue dateMay2015Last revisionMay2015

Disclaimer

# MATERIAL SAFETY DATA SHEET

# KNOWLTON DEVELOPMENT CORPORATION



Tri Tech Laboratories 1000 Robins Road Lynchburg, Va. 24504 (434) 845-7073 LEK, Inc.
315 Chemin
Knowlton
Knowlton, Quebec,
Canada J0E 1V0
(450) 242-2727

Body Blue 2300 Drew Road Mississauga, Ontario, Canada L5S 1B8 (905) 677-8333

DATE OF PREP: 8/06/2009	LAST REVISED	DATE: 05/25/2010			
		SI	ECTION I		
PRODUCT CLASS:	OTC				
DISTRIBUTED BY:	Bath & Body Work	s 7 Limited Parkwa	y Reynoldsburg, OH 430	68	
EMERGENCY TELEPHONE			n the U.S. Virgin Islands)	service, can be reached as follow For calls originating elsewhere: ollect calls are accepted)	
TRADE NAME:	BBW Anti-Bacteria	al Hand Gel - Relau	nch All Fragrances		
	SEC	CTION II - HAZ	ZARDOUS INGRED	DIENTS	
			TLV		
INGREDIENT	PERCENT	PPM	MGM <sup>3</sup>	LEL	VAPOR PRESSURE
SD Alcohol 3C (68.832% w/w)					66.2 mm HG/40 °F
ETHYL ALCOHOL 190	60,69	1000	NA	NA	
Isopropyl Alcohol	3.17	400	NA NA	NA NA	
	+				
		CE CELON III	, DINIGICAL DATE		
		SECTION III	- PHYSICAL DAT	A	
BOILING RANGE:					
VAPOR DENSITY:	HEAVIER		X	LIGHTER THAN AIR	
EVAPORATION RATE:	FASTER		X	SLOWER THAN ETHER	
PERCENT VOLATILE BY V	OLUME: N/A				
WEIGHT PER GALLON: AP	PROXIMATELY 7 I	BS./GALLON			
	SECTION	IV - FIRE AN	D EXPLOSION HA	ZARD DATA	
FLAMMABILITY CLASSIFICATION:	FLAMMABLE		FLASH POINT:	80 °F Closed Cup	
EXTINGUISHING MEDIA:	N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS:	COMBUSTIBLE		LEL:	N/A	
SPECIAL FIRE FIGHTING PROCEDURES:	N/A				
	SI	ECTION V - HI	EALTH HAZARD D	DATA	

	_			
	E: THE DATA INDICATES THAT THE PR ND CAN BE FURTHER CLASSIFIED AS N		FIED AS	
EFFECTS OF OVER EXPOS		ON-TOXIC.		
ACUTE: N/A	CAE.			
CHRONIC: N/A				
ROUTES OF ENTRY: DERM.	AL X IN- HALATION		INGESTION	
EMERGENCY AND FIRST A	AID PROCEDURES		<del></del>	
INHALATION:	N/A			
SKIN CONTACT:	Flush with water.			
EYE CONTACT:	Flush with water and contact health profess	ional.		
INGESTION:	Contact health professional.			
	SECTION VI - RE	CACTIVITY DA	TA	
STABILITY:	UNSTABLE	X	STABLE	
INCOMPATIBILITY (Material To Avoid):	None Known			
HAZARDOUS DECOMPOSITION PRODUCTS:	None Known			
HAZARDOUS POLYMERIZATION:	MAY OCCUR	X	WILL NOT OCCUR	
CONDITIONS TO AVOID:				
	SECTION VII - SPILL O	R LEAK PROC	EEDURES	
	ASE MATERIAL IS RELEASED OR SPIL	LED:		
RINSE TO DRAIN WITH PLE	NIY OF WATER			
WASTE DISPOSAL METHO USUAL & CUSTOMARY	DD:			
	SECTION VIII - SPECIAL PI	ROTECTION IN	FORMATION	
RESPIRATORY PROTECTI NOT REQUIRED	ON:			
<b>VENTILATION:</b> N/A				
PROTECTIVE GLOVES:	N/A			
EYE PROTECTION:	Wear NIOSH approved safety glasses.			
OTHER PROTECTIVE EQU	JIPN/A			
SECTION IX - SPECIAL PRECAUTIONS				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: N/A				
OTHER PRECAUTIONS:	N/A			
OTHER FRECAUTIONS, IVA				
THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE.				

#### MATERIAL SAFETY DATA SHEET

# Essentially Similar to U.S. Department of Labor Form OSHA Revised 07/11/2013

# HMIS Health-1 Flammability-4 Physical Hazard-1 Personal Protection x

#### **SECTION I-Product Information**

Manufacturer: A.V.W. Inc.

24 Hour Emergency Phone Number: 800-424-9300

**Product Name: Blow Off Air Duster** 

Synonym(s): Blow Off Air Duster Blow Off Auto Duster 3.5oz

8oz

Blow Off 152a Duster 3.5oz

8oz 10oz

Trade Name: 152a

**Chemical Name:** Ethane, 11,-Difluoro **FSPID:** Front 152a

Model No: Blow Off 3.5 oz, Blow Off 8 oz, Blow Off 10oz.

CAS # Mixture
Product Use: Cleaning

#### **SECTION II-Hazardous Identification**

**Emergency Overview** DANGER

Flammable gas. Contents under pressure. Containers may explode when heated.

Potential short term health effects

**Routes of exposure** Eye, Skin contact, Inhalation.

Eyes Contact with liquid may cause frostbite.

Skin Contact with liquid may cause frostbite.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central

Nervous system effects (headache, dizziness). Vapors may cause dizziness or

suffocation.

Ingestion Not a normal route of exposure.

Target organs Eyes. Skin. Respiratory system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

**Signs and symptoms** Symptoms may include redness, dryness of the skin.

**Odor, Color, Grade** Clear, colorless with slight ethereal odor.

General Physical Form Gas

Immediate health, physical, and environmental hazards:

Closed containers exposed to heat from fire may build pressure and explode.

May cause frostbite. May cause target organ effects.

# **SECTION III-Composition on Ingredients**

Component CAS # 73-37-6 % by Wt 60-99%

1, 1-DIFLUOROETHANE

#### **SECTION IV-First Aid Measures**

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices

10/2/2016 are

followed.

**Skin:** Flush with cool water.

Wash affected area with soap and water. If signs/symptoms persist, get medical attention.

Eye contact: Immediately flush with large amounts of cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

**Inhalation:** If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

If breathing has stopped, trained personnel should administer CPR immediately.

**Ingestion:** Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing.

Obtain medical attention.

# **SECTION V-Firefighting Measures**

Flammable Properties Flammable by WHMIS/OSHA criteria. Containers may explode when heated.

Autoignition temperature 849 °F

Flash Point: < 50 °F (Details: consumer aerosol does not exhibit a flame projection, therefore it is not determined to be

flammble as defined in 16 CFR, Section 1500.3(c) (6) (viii).

Flammable Limits-LEL 3.9% volume Flammable Limits-UEL 16.9% volume

Extinguishing media

Suitable extinguishing media

Small Fires: Dry chemical. Carbon dioxide. Water spray. Fog.

Unsuitable extinguishing media:

Not available

Protection of firefighters specific hazards arising

from the chemical Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Cool containers with flooding quantities of water until well after fire is out.

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustionproducts

May include and are not limited to: Oxides of carbon. Fluoride gases.

**Explosion data** 

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available

# **SECTION VI-Accidental Release Measures**

#### Accidental Release Measures

Refer to other sections of this MSDS for information regarding physical and health hazard,

respiratory protection, ventilation, and personal protective equipment.

Evacuate unprotected and untrained personnel from hazard area.

The spill should be cleaned up by qualified personnel.

Remove all ignition sources such as flames, smoking materials, and electrical spark sources.

Use only non-sparking tools. Ventilate the area with fresh air. Close cylinder.

If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood,

or if necessary outdoors. Dispose of collected material as soon as possible.

**Personal precautions** keep unnecessary personnel away. Do not touch or walk through spilled material.

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Keep people away from and upwind of spill/leak.

#### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).

Stop leak if you can do so without risk.

Prevent entry into waterways, sewers, basements or confined areas.

# Methods for cleaning up

Before attempting clean up, refer to hazard data given above.

Remove sources of ignition.

Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite

SECTON VII-Handling and Storage

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

Wash exposed areas thoroughly with soap and water. Contents may be under pressure, open carefully.

Keep away from heat, sparks, open flam, pilot lights and other sources of ignition. No smoking while handling this material. Avoid eye contact with vapors, mists, or spray.

Avoid breathing mists or aerosols of this product.

Use good industrial hygiene practices in handling this material.

**Storage:** Keep out of reach of children.

Do not store at temperatures above 49°C (120.2°F).

Keep away from heat, open flames or other sources of ignition. Store away from acids. Keep container in well-ventilated area.

#### **SECTION VIII-Exposure Controls/Personal Protection**

**Engineering Controls**: Do not use in a confined area or areas with little or no air movement.

Use general dilution ventilation and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment

Personal protective equipment

**Respiratory protection:** Do not breathe vapors.

Select one of the following NIOSH approved respirators based on airborne concentration of

contaminants and in accordance with OSHA regulations:

Half face piece or full face pressure demand self-contained breathing apparatus.

**Hand protection:** If there is constant skin contact, rubber gloves are recommended.

Eye/Face protection: Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields.

**Skin protection:** Wear insulated gloves to protect against frostbite.

General hygiene considerations:

Handle in accordance with good industrial hygiene and safety practice.

When using do not eat or drink.

Wash hands and face before breaks and immediately after handling product.

# **SECTION IX-Physical and Chemical Properties**

Form: Liquefied gas Color: colorless

**Odor:** slight, ethereal

**Odor threshold:** Not available

Ph: Not available
Physical state: Gas
Melting point: Not available
Freezing point: Not available

Boiling point/

**Boiling range:**  $-25^{\circ}\text{C} (-13.00 \,^{\circ}\text{F})$ 

**Flash point:** -50°C (-58.00 °F)

Vapor Pressure: 599.43 kPa @25°C

**Pour Point:** Not available

Specific gravity: 0.91

Relative density: 0.9 g/cc @2°C Vapour density: 2.4 @25°C

Flammability limits in air, Lower, % by volume 3.9 Flammability limits in air, upper, % by volume 16.9

Octanol.wate coefficient Not available Solubility (H20) Slightly

**Auto-ignition temperature** 

454 °C (849.20 °F)

Percent volatile: 100

#### **SECTION X-Stability and Reactivity**

**Chemical stability:** Stable under recommended storage conditions.

Conditions to avoid: Aerosol containers are unstable at temperatures above 49°C (120.2°F).

**Incompatibility:** Alkaline materials. Alkaline earth metals.

Hazardous decomposition

**Products:** May include and are not limited to: Oxides of carbon. Fluoride gases.

Possibility of hazardous reactions:

Hazardous polymerization does not occur.

**SECTION XI-Toxicological Information** 

**Eye irritation** Contact with liquid may cause frostbite.

**Skin** Contact with liquid may cause frostbite.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central nervous

system effects (headache, dizziness). Vapors may cause dizziness or suffocation.

**Ingestion** Not a normal route of exposure.

Sensitization Non-hazardous by WHMIS/OSHA criteria
Chronic effects Non-hazardous by WHMIS/OSHA criteria
Non-hazardous by WHMIS/OSHA criteria

Mutagenicity Non-hazardous by WHMIS/OSHA criteria
Reproductive effects Non-hazardous by WHMIS/OSHA criteria
Teratogenicity Non-hazardous by WHMIS/OSHA criteria

Synergistic Materials Not Available

# **SECTION X11-Ecological Information**

**Ecotoxicity** Not available

Environmental effects Product contains no ozone depleting CFCs

Aquatic toxicity Not available

Persistence / degradability

Not available

**Bioaccumulation / accumulation** 

Not available

Partition coefficient Not available

Mobility in environmental media

Not available

Chemical fate information

Not available

Other adverse effects Not available

# **SECTION X111-Disposal Considerations**

Waste Code: Not available

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues/unused

Not available

**Contaminated packaging** Not available

# **SECTION XIV – Transportation Information**

# U.S Department of Transportation (DOT) International Maritime Organization (IMO)

**Basic shipping requirements:** 

1, 1-Difluoroethane

Transportation of Dangerous Goods (TDG-Canada)

Hazard class 2.1 UN number 1030 Additional Information:

**DOT/IMO Label:** FLAMMABLE GAS

**Special Information:** CARGO AIRCRAFT ONLY

IATA/CAO (Air)

**Basic shipping requirements:** 

**Proper shipping name:** 1, 1-Difluoroethane

Hazard class: 2.1 UN number: 1030 Additional information:

Maximum net quantity Cargo aircraft only-150 kg maximum

**Packaging** (Forbidden on passenger aircraft)

# **SECTION XV-Regulatory Information**

# Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard Yes
Delayed Hazard No
Fire Hazard Yes
Pressure Hazard Yes
Reactivity Hazard No

Section 302 extremely No hazardous substances
Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA)

Not available

WHMIS status Controlled

WHMIS classification Class A – Compressed Gas, Class B – Division 1 – Flammable Gas

**State regulations** This product does not contain a chemical known to the State of California to cause cancer,

birth defects or other reproductive harm.

**Inventory name** 

**Country(s) or region** Inventory

Canada Domestic Substances List (DSL)
Canada Non-Domestic Substances List (NDSL)

United States &

Puerto Rico Toxic Substances Control Act (TSCA) Inventory

**SECTION XVI-Other Information** 

NFPA Hazard Classification

Health: 1
Flammability: 4
Reactivity: 1

Physical hazard: 0

**HMIS Hazard Classification** 

Health: 1
Flammability: 4
Reactivity: 1

**Protection:** X – See PPE section



# SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

# SECTION 1: Identification

**Product identifier** 

Product name Calcium Buffer

Product number R-0010

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

manufacturer.

Manufacturer Taylor Technologies, Inc.

> 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

# SECTION 2: Hazard(s) identification

Physical hazards Corrosive to metals Category 1 Health hazards Eye damage/irritation Category 1

Skin corrosion/irritation Category 1A

### **Environmental hazards**

Label elements

Hazard pictograms



Signal word Danger

Hazard statements May be corrosive to metals. Causes severe skin burns and serious eye damage.

Precautionary statements

Prevention Keep only in original container. Do not breathe dusts or mists. Wash skin thoroughly after

handling. Wear protective gloves/protective clothing/eye protection/face protection if contact is

likely to occur.

Response Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce

> vomiting. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a physician or poison control center. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a physician or poison control

center.

Storage Store in corrosive-resistant container with corrosive-resistant inner liner. Keep tightly capped.

Store out of direct sunlight between 36°F-85°F. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

#### SECTION 3: Composition/information on ingredients

#### N/13/41.180

wiixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Sodium Hydroxide	Caustic Soda	1310-73-2	1-5

#### SECTION 4: First-aid measures

#### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

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#### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops. Chemical burns must be treated by a physician.

#### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

#### If swallowed

Immediately call a physician or poison control center. Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs.

#### Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep person under observation. Symptoms may be delayed.

#### General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### SECTION 5: Firefighting measures

#### **Extinguishing media**

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity May be corrosive to metals

Hazardous combustion products Sodium oxides. Other irritating fumes and smoke.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

# SECTION 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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water. Dilute base with water and neutralize with dilute acid. If not recoverable, dilute with water or flush to holding area and neutralize. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

#### SECTION 7: Handling and storage

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

Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Calcium Buffer; R-0010

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#### Conditions for safe storage, including any incompatibilities

Store locked up. Store in corrosive-resistant container with corrosive-resistant inner liner. Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

# SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

#### **US ACGIH Threshold Limit Values**

Value Components Type Ceiling 2 ma/m<sup>3</sup> Sodium Hydroxide (CAS 1310-73-2)

**US NIOSH: Pocket Guide to Chemical Hazards** 

Value Components Type Sodium Hydroxide (CAS 1310-73-2) Ceiling  $2 \text{ mg/m}^3$ 

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Value Sodium Hydroxide (CAS 1310-73-2)  $2 \text{ mg/m}^3$ TWA

#### **Biological limit values**

No biological exposure limits noted for the ingredient(s)

#### **Exposure controls**

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. Eyewash facilities and emergency shower must be available when handling

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing if contact is likely to occur

In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA Respiratory protection

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the

exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless or nearly colorless

Odor Odorless

Odor threshold No data available

13.1 pΗ

Evaporation rate No data available Melting point No data available No data available Freezing point Initial boiling point (boiling range) No data available Flash point No data available Specific gravity No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Upper Flammability Limit No data available Lower Flammability Limit No data available Vapor pressure No data available Vapor density No data available

SDS US

Calcium Buffer; R-0010 Page 3 of 7 Relative density No data available

Solubility Soluble in all proportions

Partition coefficient (n-octanol/water)

No data available

Viscosity No data available Explosive properties No data available Oxidizing properties No data available

# SECTION 10: Stability and reactivity

Reactivity May be corrosive to metals

Stable under recommended handling and storage conditions (refer to section 7 of the SDS) **Chemical stability** 

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Acids, metals, and oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products under normal conditions

# SECTION 11: Toxicological information

# Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important

symptoms/effects, acute and delayed

Direct skin contact may cause corrosive skin burns, deep ulcerations, and possibly permanent scarring.

Direct contact with concentrated solutions may be corrosive to the eyes and may cause severe damage, including blindness. Symptoms may include stinging, tearing, redness, swelling, and

scarring.

Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking, and wheezing. Inhalation could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus, and possibly the digestive tract. Symptoms may include abdominal pain, vomiting, burns, perforations, and

bleeding.

This product is not classified as an acute toxicity hazard. See below for product and individual **Acute toxicity** 

ingredient acute toxicity data.

**Product Acute Toxicity Estimate (ATE)** Species

Calcium Buffer Reagent (CAS Mixture)

Acute

Dermal

LD<sub>50</sub> Rat No data available

Inhalation

LC<sub>50</sub> Rat No data available

Oral

>2000 mg/kg LD<sub>50</sub> Rat

Components **Acute Toxicity Data Species** 

Sodium hydroxide (CAS 1310-73-2)

Acute

Dermal

LD50 Rat No data available

No data available

Inhalation

Oral

LC<sub>50</sub> Rat

 $LD_{50}$ Rat 140-340 mg/kg

Skin corrosion/irritation Causes severe skin burns Serious eye damage/eye irritation Causes serious eye damage

Respiratory sensitization No data available

> SDS US Page 4 of 7

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Skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not classifiable

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**US National Toxicology Program (NTP) Report on Carcinogens** 

Not regulated

Reproductive toxicity

No data available

Specific target organ toxicity

No data available

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard

No data available

# SECTION 12: Ecological information

**Ecotoxicity** This product is not classified as environmentally hazardous.

Persistence and degradability

Bioaccumulative potential

Mobility in soil

No data available

No data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

# SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

# SECTION 14: Transport information

DOT

UN number UN1824

**UN Proper shipping name** Sodium hydroxide solution

Reportable Quantity 5000 lbs

Class (Subsidiary risk) 8
Label(s) 8
Packing group III

Special provisions IB3, N34, T4, TP1

Packaging exceptions 154
Packaging, non-bulk 203

IATA

UN number UN1824

UN Proper shipping name Sodium hydroxide solution

Class (Subsidiary risk) 8
Packing group III
Special provisions A803

**IMDG** 

UN number UN1824

UN Proper shipping name Sodium hydroxide solution

Class (Subsidiary risk) 8
Packing group III

**Environmental hazards** 

Calcium Buffer; R-0010

Marine pollutant No Special provisions 223 **EmS** F-A, S-B

Special precautions for user

Read safety instructions, SDS, and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

**DOT hazard pictograms** 

IATA; IMDG hazard pictograms



# SECTION 15: Regulatory information

#### **US** federal regulations

**CERCLA Hazardous Substance (40 CFR 302.4)** 

Chemical name CAS number Reportable Quantity

Sodium Hydroxide 1310-73-2 1000 lbs

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### SARA 311/312 Hazardous Chemical

Chemical name CAS number

Sodium hydroxide 1310-73-2

#### SARA 313 (TRI reporting)

Not regulated

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

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

Not regulated

#### Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

# Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

# Safe Drinking Water Act (SDWA)

Not regulated

# **US state regulations**

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

#### Massachusetts Right-to-Know Act

Not regulated

#### New Jersey Worker and Community Right-to-Know Act

Chemical nameCAS numberSodium hydroxide1310-73-2

## Pennsylvania Worker and Community Right-to-Know Act

Chemical name CAS number

SDS US Page 6 of 7 Sodium hydroxide 1310-73-2

**Rhode Island Right-to-Know Act** 

**Chemical name** CAS number

Sodium hydroxide 1310-73-2

# SECTION 16: Other information

#### **NFPA Rating**

Health hazard 2 Fire hazard 0 1 Reactivity Specific N/A

#### Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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#### Issue date:

May 2015

#### Last revisions

April 2018



# SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

# SECTION 1: Identification

**Product identifier** 

Product name Calcium Indicator Liquid

R-0011L Product number

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

manufacturer.

Manufacturer Taylor Technologies, Inc.

> 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

# SECTION 2: Hazard(s) identification

Physical hazards Flammable liquids Category 2 Health hazards Eye damage/irritation Category 2A

Specific target organ toxicity, single exposure Category 3

**Environmental hazards** 

Label elements

Hazard pictograms



Signal word Danger

Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory

irritation. May cause drowsiness or dizziness.

Precautionary statements

Prevention 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. Wear protective gloves/ eve protection/ face protection if contact is likely to occur. Wash skin thoroughly after handling. Avoid breathing dust/fumes/gas/mists/vapors/spray. Use only

outdoors or in a well-ventilated area.

Response IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a physician

> or poison center if you feel unwell. IF ON SKIN (OR HAIR): Immediately take off all contaminated clothing. Rinse skin with water. 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. IN CASE OF FIRE: Use alcohol-

resistant foam, carbon dioxide, dry chemical powder, or water fog to extinguish.

Storage Store in well-ventilated place. Keep tightly capped. Store out of direct sunlight between 36°F-

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

# SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	% w/w
Triethanolamine	Trolamine, 2,2', 2" -Nitrilotriethanol	102-71-6	60-80
Isopropyl alcohol	Isopropanol	67-63-0	10-30
Nonhazardous and other	Not applicable	Not applicable	0.1-1

SDS US

# SECTION 4: First-aid measures

#### If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

#### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

#### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

#### If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

#### Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

# Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

#### **General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# SECTION 5: Firefighting measures

#### **Extinguishing media**

Suitable extinguishing media Alcohol-resistant foam, carbon dioxide, dry chemical powder, or water fog.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

#### Specific hazards arising from the substance or mixture

Fire hazard Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition

and flash back. This product is a poor conductor of electricity and can be electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential static discharge, use proper bonding and grounding procedures. This material may be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical equipment). Vapors are heavier than air and may spread along

floors.

Explosion hazard Vapors may form explosive mixtures with air. This material may be ignited by heat, sparks,

flames, or other sources of ignition (e.g., static electricity, pilot lights, or mechanical/electrical

equipment). Vapors are heavier than air and may spread along floors.

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion products Carbon oxides, nitrogen oxides. Other irritating fumes and smoke.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting

equipment/instructions

Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

#### SECTION 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 cleanup. Do not breathe dust/ fumes/ gas/ mists/ vapors/ spray. 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 protective equipment, refer to section 8 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Ventilate the contaminated area. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area

with water to remove residual contamination. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and storage

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

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fumes/gas/mists/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

#### Conditions for safe storage, including any incompatibilities

Store in well-ventilated place. Keep cool. Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

#### **US ACGIH Threshold Limit Values**

Components	Туре	<u>Value</u>	
Isopropanol (CAS 67-63-0)	STEL	980 mg/m <sup>3</sup>	
Isopropanol (CAS 67-63-0)	TWA	492 mg/m <sup>3</sup>	
Triethanolamine (CAS 102-71-6)	TWA	5 mg/m <sup>3</sup>	
US NIOSH: Pocket Guide to Chemical Haza	rds		
Components	Туре	Value	
Isopropanol (CAS 67-63-0)	ST	1225 mg/m <sup>3</sup>	
Isopropanol (CAS 67-63-0)	TWA	980 mg/m <sup>3</sup>	
Isopropanol (CAS 67-63-0)	IDLH	4920 mg/m <sup>3</sup>	
US OSHA Table Z-1 Limits for Air Contamin	nants (29 CFR 1910.1000)		
Components	Туре	Value	

PEL

## Biological limit values

#### **ACGIH Biological Exposure Indices**

Isopropanol (CAS 67-63-0)

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/L	Acetone	Urine	End of shift at end of workweek

#### **Exposure controls**

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. Eyewash facilities and emergency shower must be available when handling

980 mg/m<sup>3</sup>

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing if contact is likely to occur.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state Liquid

Form Liquid

Color Dark purple to dark blue

Odor Alcohol
Odor threshold 90 mg/m³

pH No data available
Evaporation rate No data available
Melting point No data available
Freezing point No data available
Initial boiling point (boiling range) 180.4°F (82.3°C)

Flash point 53°F (12°C) Closed cup
Specific gravity No data available
Auto-ignition temperature No data available
Decomposition temperature No data available

Flammability (solid, gas) Flammable

Upper Flammability Limit

Lower Flammability Limit

LEL 2% v/v 200° F (93°C)

Vapor pressure

UEL 12% v/v 200° F (93°C)

LEL 2% v/v 200° F (93°C)

45.4 mmHG at 25°C

Vapor density 2.1

Relative density No data available

Solubility Soluble in all proportions

Partition coefficient No data available

(n-octanol/water)

Viscosity No data available

Explosive properties Moderately explosive when exposed to heat or flame.

Oxidizing properties No data available

## SECTION 10: Stability and reactivity

**Reactivity** Hazardous reactions will not occur under normal conditions.

**Chemical stability** Stable under recommended handling and storage conditions (refer to section 7 of the SDS.)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Heat, sparks, open flames, and other ignition sources. Temperatures exceeding the flash point.

Direct sunlight. Contact with incompatible materials. Do not use in areas without adequate

ventilation.

**Incompatible materials** Acetaldehyde, acids, chlorine, ethylene oxide, halogenated hydrocarbons, isocyanates, nitrites,

organics, strong acids, strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products under normal conditions.

#### SECTION 11: Toxicological information

#### Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause irritation. Symptoms may include redness and itching.

Direct eye contact may cause serious irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation, drowsiness, dizziness. Symptoms may

include coughing and breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard.

Skin corrosion/irritation No data available

Serious eye damage/eye irritation Causes serious eye irritation

Respiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

#### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not classifiable

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

#### **US National Toxicology Program (NTP) Report on Carcinogens**

Not regulated

Reproductive toxicity No data available

Specific target organ toxicity

(single exposure)

May cause drowsiness or dizziness. May cause respiratory irritation.

Specific target organ toxicity

(repeated exposure)

No data available

**Aspiration hazard** 

No data available

## SECTION 12: Ecological information

This product is not classified as environmentally hazardous. **Ecotoxicity** 

Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

DOT

**UN** number 1219

**UN Proper shipping name** Isopropyl alcohol solution

Reportable Quantity None Class (Subsidiary risk) 3 3 Label(s) Ш Packing group

Special provisions IB2, T4, TP1 Packaging exceptions 4b, 150 Packaging, non-bulk 202

IATA

**UN** number 1219

**UN Proper shipping name** Isopropyl alcohol solution

Class (Subsidiary risk) 3 Packing group Ш Special provisions A180

**IMDG** 

**UN** number 1219

**UN Proper shipping name** Isopropyl alcohol solution

3 Class (Subsidiary risk) Packing group Ш

**Environmental hazards** 

Marine pollutant No Special provisions None **EmS** F-E. S-D

Special precautions for user Read safety instructions, SDS, and emergency procedures before handling.

#### **DOT** hazard pictograms



IATA; IMDG hazard pictograms



## SECTION 15: Regulatory information

#### **US** federal regulations

**CERCLA Hazardous Substance (40 CFR 302.4)** 

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

**SARA 304 Emergency Release Notification** 

Not regulated

#### SARA 311/312 Hazardous Chemical

Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6
SARA 313 (TRI reporting)	
Chemical name	CAS number
Isopropanol	67-63-0

## **TSCA Section 8(b) Chemical Inventory**

All components are on the U.S. EPA TSCA Inventory list.

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

Not regulated

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

## **US** state regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

## Massachusetts Right-to-Know Act

Not regulated

## New Jersey Worker and Community Right-to-Know Act

Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6

## Pennsylvania Worker and Community Right-to-Know Act

Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6

## **Rhode Island Right-to-Know Act**

Chemical name	CAS number
Isopropanol	67-63-0
Triethanolamine	102-71-6

## SECTION 16: Other information

#### **NFPA Rating**

Health hazard 1
Fire hazard 3
Reactivity 1
Specific N/A

#### Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

License granted to make unlimited paper copies for internal use only. This Safety Data Sheet may not be altered in any way without the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and the most current data available.

#### Issue date:

May 2015

#### Last revisions

April 2018



# MATERIAL SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE

USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: **CCH® COMMERCIAL DRY CHLORINATOR** 

**TABLETS** 

EPA Registration Number: 1258-1217

## 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204 REVISION DATE: 03/24/2008 SUPERCEDES: 03/19/2008

MSDS Number: 000000005438

SYNONYMS: None

CHEMICAL FAMILY: Hypochlorite

DESCRIPTION / USE: Sanitizer and Oxidizer FORMULA: Sanitizer and Oxidizer None established

## 2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:

Toxic by inhalation, Corrosive to eyes and skin, Lung toxin, Oxidizer

Routes of Entry: Inhalation, skin, eyes, ingestion Chemical Interactions: No known or reported interactions.

Medical Conditions Aggravated: Asthma, respiratory and cardiovascular disease

**Human Threshold Response Data** 

Odor Threshold Approximately 1.4 mg/m3 (based on odor threshold of chlorine)

Irritation Threshold Approximately 13-22 mg/m3 (based on irritation threshold of chlorine)

## Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings:	<u>Health</u>	<u>Flammability</u>	Physical / Instability	PPI / Special
				<u>hazard.</u>
HMIS	3	0	1	
NFPA	3	0	1	OX

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# MATERIAL SAFETY DATA SHEET

Immediate (Acute) Health Effects

Inhalation Toxicity: HARMFUL IF PRODUCT IS INHALED IN HIGH CONCENTRATIONS.

CAUSES BURNS TO RESPIRATORY TRACT. Inhalation of dust or vapor from this product can be irritating to the nose, mouth, throat and lungs. In confined areas, mechanical agitation can result in high levels of dust, and reaction with incompatible materials (as listed in Section 10) can result in high concentrations of chlorine vapor, either of which may result in burns to the respiratory tract, producing lung edema, shortness of breath, wheezing, choking, chest pains, impairment of lung function

and possible permanent lung damage.

Skin Toxicity: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION. WET

MATERIAL CAUSES SKIN BURNS. Dermal exposure to dry material causes moderate skin irritation characterized by redness and swelling. Dermal exposure to wet material can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged

skin exposure may cause permanent damage.

Eye Toxicity: CAUSES BURNS TO EYES. Severe irritation and/or burns can occur

following eye exposure. Direct contact may cause impairment of vision

and corneal damage.

Ingestion Toxicity: MODERATELY TOXIC IF SWALLOWED. CAUSES BURNS TO

DIGESTIVE TRACT. Irritation and/or burns can occur to the entire

gastrointestinal tract, including the stomach and intestines,

characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration or perforation. Significant exposure to this

material can lead to serious health effects and/or death.

Acute Target Organ Toxicity: This product is corrosive to all tissues contacted and upon inhalation,

may cause irritation to mucous membranes and respiratory tract., The dry material is irritating to the skin. However when wet, it will produce

burns to the skin.

## Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any

reference source including IARC, OSHA, NTP or EPA.

Reproductive and No reproductive or developmental risk to humans is expected from

Developmental Toxicity: exposure to this product.

Inhalation: Repeated inhalation exposure may cause impairment of lung functions.

Repeated inhalation exposure may cause impairment of lung function and permanent lung damage.

Skin Contact: Effects similar to those from acute exposure. In addition, chronic

exposure to wet material may cause effects secondary to tissue

destruction.

Ingestion: There are no known or reported effects from chronic ingestion except for

effects similar to those experienced from single exposure. The acute corrosivity of this product, makes chronic ingestion of significant

amounts unlikely.

Sensitization: This material is not known or reported to be a skin or respiratory

sensitizer.

Chronic Target Organ Toxicity: There are no known or reported effects from repeated exposure except

those secondary to burns.

Supplemental Health Hazard

Information:

No additional health information available.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	CAS#	% RANGE
CALCIUM HYPOCHLORITE	7778-54-3	60 - 80
SODIUM CHLORIDE	7647-14-5	10 - 20
CALCIUM CHLORATE	10137-74-3	0 - 5
CALCIUM CHLORIDE	10043-52-4	0 - 5
CALCIUM HYDROXIDE	1305-62-0	0 - 6
CALCIUM CARBONATE	471-34-1	0 - 5
Water	7732-18-5	5.5 - 10

## 4. FIRST AID MEASURES

General Advice: Call a poison control center or doctor for treatment advice. For 24-hour

emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

Inhalation: IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

Skin Contact: IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin

immediately with plenty of water for 15-20 minutes. Call a poison control center or

doctor for treatment advice.

Eye Contact: IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20

minutes. Remove contact lenses, if present, after the first 5 minutes, then

continue rinsing eye. Call a poison control center or doctor for treatment advice. IF SWALLOWED: Call a poison control center or doctor immediately for treatment

Ingestion:

advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give

anything by mouth to an unconscious person.

Probable mucosal damage may contraindicate the use of gastric lavage. Notes to Physician:

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# MATERIAL SAFETY DATA SHEET

## 5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): This product is chemically reactive with many substances. Any

contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire., This product is a strong oxidizer which is capable of intensifying a fire once started., Product is not known to be flammable, combustible or pyrophoric.

Flammable Properties

Flash Point: Not applicable Autoignition Temperature: Not applicable

Extinguishing Media: Water only. Do not use dry extinguishers containing ammonium

compounds.

Fire Fighting Instructions: Use water to cool containers exposed to fire. See Section 6 for

protective equipment for fire fighting.

Upper Flammable / Explosive Limit, % in air: Not applicable Lower Flammable / Explosive Limit, % in air: Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations:

Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air repirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment.

Spill Mitigation Procedures

Air Release: Vapors may be suppressed by the use of water fog. All water utilized

to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or

treatment.

Water Release: This product is heavier than water. This material is soluble in water.

Monitor all exit water for available chlorine and pH. Advise local

authorities of any contaminated water release.

Land Release: Contact 1-800-654-6911 immediately. DANGER: All spills of this

product should be treated as contaminated. Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire of great intensity. In case of a spill, separate all spilled product from packaging, debris and other material. Using a clean broom or shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labeled. Disposal

containers made of plastic or metal are recommended. Do not seal disposal containers tightly. Immediately remove all product in disposal containers to an isolated area outdoors. Place all damaged

packaging material in a disposal container of water to assure decontamination (i.e. removal of all product) before disposal. Place all undamaged packaging in a clean, dry container properly marked

and labeled. Call for disposal procedures.

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# MATERIAL SAFETY DATA SHEET

Additional Spill Information:

Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. Dispose of spill residues per guidelines under Section 13, Disposal Consideration. This material may be neutralized for disposal; you are requested to contact Arch Chemicals at 1-800-654-6911 before beginning any such procedure. FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300 REPORTABLE QUANTITY: 10 lbs. (as calcium hypochlorite) per 40 CFR 302.4.

## 7. HANDLING AND STORAGE

Handling: Avoid inhalation of dust and fumes. Do not take internally. Avoid

contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash

before reuse.

Storage: Keep product tightly sealed in original containers. Store product in a

cool, dry, well-ventilated area. Store away from combustible or flammable products. Keep product packaging clean and free of all contamination, including, e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc.

Shelf Life Limitations: Do not store product where the average daily temperature exceeds

95° F. Storage above this temperature may result in rapid

decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products. Shelf life (that is, the period of time before the product goes below stated label strength) is determined by storage time and temperatures. Store in a cool, dry and well ventilated area. Prolonged storage at elevated temperatures will significantly shorten the shelf life. Storage in a climate controlled storage area or building is recommended in those areas where extremes of high temperature

occur.

Incompatible Materials for Storage: Do not allow product to come in contact with other materials,

including e.g. other pool treatment products, acids, organic materials, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, all corrosive liquids, flammable or combustible materials, etc. A chemical reaction with such substances can cause a fire of great

intensity.

Do Not Store At temperatures Above: Average daily temperature of 35° C / 95° F. Storage above this

temperature may result in rapid decomposition, evolution of chlorine gas and heat sufficient to ignite combustible products.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

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# MATERIAL SAFETY DATA SHEET

## Protective Equipment for Routine Use of Product

Respiratory Protection: Wear a NIOSH approved respirator if levels above the exposure limits are

possible.

Respirator Type: A NIOSH approved full-face air purifying respirator equipped with

combination chlorine/P100 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations

exceed ten (10) times the published limit.

Skin Protection: Wear impervious gloves to avoid skin contact. A full impervious suit is

recommended if exposure is possible to a large portion of the body. A safety

shower should be provided in the immediate work area.

Eye Protection: Use chemical goggles. Emergency eyewash should be provided in the

immediate work area.

Protective Clothing Type: Neoprene, Nitrile, Natural rubber (This includes: gloves, boots, apron,

protective suit)

## **Exposure Limit Data**

CHEMICAL NAME CALCIUM HYPOCHLORITE	<u>CAS #</u> 7778-54-3	Name of Limit ARCH-ROEG*	<u>Exposure</u> 1 mg/m3 TWA
CALCIUM HYPOCHLORITE	7778-54-3	NIOSH-IDLH	37 - 48 mg/m3 based on IDLH
CALCIUM HYDROXIDE	1305-62-0	ZUS_ACGIH	concentration of chlorine 5 mg/m3 TWA
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAPO	5 mg/m3 TWA
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAP1	15 mg/m3 TWATotal dust
CALCIUM HYDROXIDE	1305-62-0	ZUS_OSHAP1	5 mg/m3 TWArespirable dust fraction
CALCIUM CARBONATE	471-34-1	ZUS_ACGIH	10 mg/m3 TWA
CALCIUM CARBONATE	471-34-1	ZUS_OSHAP1	15 mg/m3 TWATotal dust
CALCIUM CARBONATE	471-34-1	ZUS_OSHAP1	5 mg/m3 TWArespirable dust fraction

<sup>\*</sup>ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: solid
Form Tablet
Color: white
Odor: Chlorine-like

Molecular Weight: (Active ingredient)143.00

Specific Gravity: Not applicable

pH: 10.4 - 10.8 (1% solution in neutral, distilled

water) (@ 25 Deg. C)

Boiling Point:

Freezing Point:

Mot applicable

Not applicable

Not applicable

Not applicable

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# Arch Chemicals,

## MATERIAL SAFETY **DATA SHEET**

Density: 1.9a/cc

Vapor Pressure: (@ 25 Deg. C) Not applicable

Vapor Density: Not applicable Viscosity: Not applicable Fat Solubility: No data

Solubility in Water: 18 % Product also contains calcium hydroxide

and calcium carbonate which will leave a

residue.

Partition coefficient n-

Not applicable

octanol/water:

**Evaporation Rate:** Not applicable Oxidizer Oxidizina: Volatiles, % by vol.: Not applicable **VOC Content** Not applicable **HAP Content** Not applicable

## 10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Product is not sensitive to mechanical shock or impact. Product is

> not sensitive to electrical static discharge. Product will not undergo hazardous polymerization. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Not

> pyrophoric. Not an organic peroxide. If subjected to excessive temperatures, the product may undergo rapid decomposition, evolution of chlorine gas, and heat sufficient to ignite combustible substances. If product is exposed to small amounts of water, it can

react violently to produce heat and toxic gases and spatter. Use copious amounts of water for fires involving this product.

Conditions to Avoid: Do not store next to heat source, in direct sunlight, or elevated

> storage temperature. Do not store where the daily average temperature exceeds 95 °F. Prevent ingress of humidity and moisture into container or package. Always close the lid.

This product is chemically reactive with many substances, Chemical Incompatibility:

including, e.g., other pool treatment products, acids, organics, nitrogen-containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), oxidizers, corrosive flammable or combustible materials. Do not allow product to contact any foreign matter, including other water treatment products. Contamination or improper use may cause a fire of great intensity, explosion or the release of toxic gases. If product is exposed to small amounts of water, it can react violently to

produce heat and toxic gases and spatter.

Hazardous Decomposition Products: Chlorine

Decomposition Temperature: 170 - 180 DEG°C - , 338 - 356 DEG°F-

## 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

CALCIUM LD50 (65% calcium hypochlorite) 850 mg/kg Rat **HYPOCHLORITE** 

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## Arch Chemicals,

## MATERIAL SAFETY **DATA SHEET**

SODIUM CHLORIDE LD50 = 3,000 mg/kgRat CALCIUM CHLORIDE LD50 = 1,000 mg/kgRat CALCIUM HYDROXIDE LD50 = 7,340 mg/kgRat

Dermal LD50 value:

CALCIUM LD50 (65% calcium hypochlorite) > 2,000 mg/kg Rabbit **HYPOCHLORITE** 

SODIUM CHLORIDE LD50 > 10,000 mg/kg Rabbit CALCIUM CHLORIDE LD50 = 2,630 mg/kg Rat

CALCIUM HYDROXIDE No data

Inhalation LC50 value:

**CALCIUM** Inhalation LC50 1 h (65% calcium hypochlorite), (Nose Only) = 2.04 MG/L **HYPOCHLORITE** 

CALCIUM Inhalation LC50 4 h (65% calcium hypochlorite), (Nose Only) = 0.51 MG/L Rat

**HYPOCHLORITE** 

Inhalation LC50 1 h > 42 MG/L Rat SODIUM CHLORIDE CALCIUM CHLORIDE No data

CALCIUM HYDROXIDE No data

**Product Animal Toxicity** 

Oral LD50 value: LD50 Approximately 800 mg/kg Rat

Dermal LD50 value: LD50 > 2,000 mg/kg Rabbit

Inhalation LC50 Inhalation LC50 1.00 h (Nose Only) Believed to be > 2.04 MG/L Rat Inhalation LC50 4 h (Nose Only) Believed to be > 0.51 MG/L Rat value:

DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL Skin Irritation:

CAUSES SKIN BURNS.

Eve Irritation: Corrosive to eves.

Skin Sensitization: This material is not known or reported to be a skin or respiratory sensitizer. This product is corrosive to all tissues contacted and upon inhalation, may cause Acute Toxicity:

irritation to mucous membranes and respiratory tract. The dry material is irritating to

the skin. However when wet, it will produce burns to the skin.

There are no known or reported effects from repeated exposure except those Subchronic / Chronic

Toxicity:

secondary to burns.

Reproductive and Calcium hypochlorite has been tested for teratogenicity in laboratory Developmental Toxicity:

animals. Results of this study have shown that calcium hypochlorite is not a

teratogen.

CALCIUM CHLORIDE Not known or reported to cause reproductive or

developmental toxicity.

Mutagenicity: Calcium hypochlorite has been tested in the Dominant lethal assay in male

> mice, and it did not induce a dominant lethal response. Calcium hypochlorite has been reported to produce mutagenic activity in two in vitro assays. It has, however, been shown to lack the capability to produce mutations in animals based on results from the micronucleus assay. In vitro assays frequently are inappropriate to judge the mutagenic potential of bactericidal chemicals due to a high degree of cellular toxicity. The concentration which produces mutations in these in vitro assays is significantly greater than the concentrations used for disinfection. Based on high cellular toxicity in in vitro assays and the lack of mutagenicity in animals, the risk of genetic damage

to humans is judged not significant.

**CALCIUM CHLORIDE** This product was determined to be non-mutagenic in

the Ames assay. It was also shown to be non-

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# MATERIAL SAFETY DATA SHEET

clastogenic in the chromosomal aberration test.

Carcinogenicity:

This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. One hundred mice were exposed dermally 3 times a week for 18 months to a solution of calcium hypochlorite. Histopathological examination failed to show an increased incidence of tumors. IARC (International Agency for Research on Cancer) reviewed studies conducted with several hypochlorite salts. IARC has classified hypochlorite salts as having inadequate evidence for carcinogenicity to humans and animals. IARC therefore considers hypochlorite salts to be not classifiable as to their carcinogenicity to humans (Group 3 Substance).

**CALCIUM CHLORIDE** 

This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

## 12. ECOLOGICAL INFORMATION

Overview: Highly toxic to fish and other aquatic organisms.

#### Ecological Toxicity Values for: CALCIUM HYPOCHLORITE

Bluegill - (nominal, static). 96 h LC50 0.088 mg/l Rainbow trout (Salmo gairdneri), - (nominal, static). 96 h LC50 0.16 mg/l

Daphnia magna, - (nominal, static). 48 h LC50 0.11 mg/l

## Ecological Toxicity Values for: CALCIUM CHLORIDE

Bluegill - (nominal, static). 96 h LC50 = 10,650 mg/l
Mosquito fish - (nominal, static). 96 h LC50 = 13,400 mg/l
Fathead minnow (Pimephales - (nominal, static). 96 h LC50 = 4,630 mg/l

promelas),

Daphnia magna, - (nominal, static). 48 h LC50= 2,770 mg/l
Ceriodaphnia dubia - (nominal, static). 48 h LC50= 1,830 mg/l
Nitzschia linearis (diatom) - (nominal, static). 5 day LC50 = 3,130 mg/l

## 13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary: If this product becomes a waste, it meets the criteria of a hazardous

waste as defined under 40 CFR 261 and would have the following

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# MATERIAL SAFETY DATA SHEET

EPA hazardous waste number: D001.If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed accordingly.

Disposal Methods: As a hazardous solid waste it should be disposed of in accordance

with local, state and federal regulations.

Potential US EPA Waste Codes: D001

## 14. TRANSPORT INFORMATION

Land (US DOT): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE 5.1 III Water (IMDG): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 III

Flash Point: Not applicable

Air (IATA): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 III

Emergency Response Guide Number: ERG # 140

Transportation Notes: Under specific circumstances, this product can ship under two

transport exceptions, Limited Quantity or Consumer

Commodity. See Bill of Lading for proper shipping description.

EMS: F-H, S-Q

## 15. REGULATORY INFORMATION

**UNITED STATES:** 

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA

Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: 1258-1217

FIFRA Listing of Pesticide Chemicals

(40 CFR 180):

This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes

consistent with its labeling.

## Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Health Immediate (Acute) Health Hazard

Physical Fire Hazard

#### Emergency Planning & Community Right to Know (40 CFR 355, App. A):

## **Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:**

ZUS\_SAR302 TPQ (threshold planning None established

quantity)

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS CERCLA Reportable quantity CALCIUM HYPOCHLORITE

Value: 10lbs

ZUS\_SAR302 Reportable quantity None established

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## Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS\_SAR313 De minimis concentration None established

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112: ZUS CAAHAP None established

ZUS\_CAAHRP None established

CAA AP None established

#### State Right-to-Know Regulations Status of Ingredients

#### Pennsylvania:

CAS#	COMPONENT NAME
10137-74-3	CALCIUM CHLORATE
1305-62-0	CALCIUM HYDROXIDE
7778-54-3	CALCIUM HYPOCHLORITE

ZUSPA\_RTK

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323

1990-01-01

CHLORIC ACID, CALCIUM SALT

hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323

1990-01-01

CALCIUM HYDROXIDE (CA(OH)2)

hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34, Labor and Industry Chapter 323

1990-01-01

HYPOCHLOROUS ACID, CALCIUM SALT environmental hazard, hazardous substance

#### New Jersey:

itom ociocy.		
CAS#	COMPONENT NAME	
10137-74-3	CALCIUM CHLORATE	
1305-62-0	CALCIUM HYDROXIDE	

CCH® COMMERCIAL DRY CHLORINATOR TABLETS
REVISION DATE: 03/24/2008 Page 11 of 13



# MATERIAL SAFETY DATA SHEET

7778-54-3	CALCIUM HYPOCHLORITE
ZUSNJ_RTK	

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

**CALCIUM CHLORATE** 

hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

**CALCIUM HYDROXIDE** 

hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq] 1989-12-01

**CALCIUM HYPOCHLORITE** 

special health hazard substance, special health hazard, reactive - second degree

#### Massachusetts:

CAS #	COMPONENT NAME
10137-74-3 CALCIUM CHLORATE	
1305-62-0	CALCIUM HYDROXIDE
7778-54-3	CALCIUM HYPOCHLORITE

ZUSMA\_RTK

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000

1991-07-01

**CALCIUM CHLORATE** 

massachusetts hazardous substance

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law,The Massachusetts Substance List, 105 CMR 670.000

1991-07-01

CALCIUM HYDROXIDE

massachusetts hazardous substance

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know law, The Massachusetts Substance List, 105 CMR 670.000

1991-07-01

CALCIUM HYPOCHLORITE

massachusetts hazardous substance

#### California Proposition 65:

CAS # COMPONENT NAME
----------------------

ZUSCA\_P65 None established

#### WHMIS Hazard Classification:

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MATERIAL SAFETY
DATA SHEET

Canada. Canada Hazardous Products Act SOR/88-64 1988-01-20 Concentration by Weight: 1 percent by weight 302 CALCIUM HYDROXIDE

## **16. OTHER INFORMATION**

MSDS REVISION STATUS: Revised to meet the ANSI standard of 16 sections

SECTIONS REVISED: 14

Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT.

CCH® COMMERCIAL DRY CHLORINATOR TABLETS
REVISION DATE: 03/24/2008 Page 13 of 13

## **MATERIAL SAFETY DATA SHEET**

## 1. Product and Company Identification

Product Name Century Duster – Dust & Lint Remover

Synonym(s) Model # CDS

Model #: CDS8, CDS82 Model #: CDS12 Model #: CDS35 Model #: CDS10E

CAS # Mixture
Product use Dust control

Manufacturer Falcon Safety Products, Inc.

25 Imclone Drive

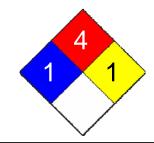
Branchburg, NJ 08876 US Phone: 1-908-707-4900

**Supplier** Falcon Safety Products, Inc.

25 Imclone Drive Branchburg, NJ 08876 Phone 1-908-707-4900

4
3
2
1
0





## 2. Hazards Identification

Emergency overview DANGER

Flammable gas. Contents under pressure. Containers may explode when heated.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation.

Eyes Contact with liquid may cause frostbite.

Skin Contact with liquid may cause frostbite.

**Inhalation** Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness). Vapors may cause dizziness or

suffocation.

IngestionNot a normal route of exposure.Target organsEyes. Skin. Respiratory system.

**Chronic effects** Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

## 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Ethane, 1,1-difluoro-	75-37-6	60 - 100

## 4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

**Skin contact** Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is Ingestion convulsing. Obtain medical attention. General advice Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with eyes and skin. Keep out of reach of children. 5. Fire Fighting Measures Flammable by WHMIS/OSHA criteria. Containers may explode when heated. Flammable properties Extinguishing media Do not extinguish burning gas if flow cannot be shut off immediately. Use water spray or Suitable extinguishing media fog nozzle to keep cylinder cool Small Fires: Dry chemical. Carbon dioxide. Water spray. Fog. Unsuitable extinguishing media Not available Protection of firefighters Specific hazards arising from Contents under pressure. Pressurized container may explode when exposed to heat or the chemical flame. Cool containers with flooding quantities of water until well after fire is out. Protective equipment for Firefighters should wear full protective clothing including self contained breathing apparatus. firefighters Hazardous combustion products May include and are not limited to: Oxides of carbon. Fluoride gases. **Explosion data** Sensitivity to mechanical Not available impact Not available Sensitivity to static discharge 6. Accidental Release Measures Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Before attempting clean up, refer to hazard data given above. Remove sources of Methods for cleaning up ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. 7. Handling and Storage Avoid breathing mists or aerosols of this product. Use good industrial hygiene practices Handling in handling this material. Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Storage Keep away from heat, open flames or other sources of ignition. 8. Exposure Controls / Personal Protection **Exposure limits** Ingredient(s) **Exposure Limits** Ethane, 1,1-difluoro-**ACGIH-TLV** Not established **OSHA-PEL** Not established **Engineering controls** Use only under good ventilation conditions or with respiratory protection. Personal protective equipment Wear safety glasses with side shields. Eye / face protection 18-April-2012 #19638 Page 2 of 6 Issue date

Hand protection If there is constant skin contact, rubber gloves are recommended.

Skin and body protection

As required by employer code. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respiratory protection

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the

product.

## 9. Physical and Chemical Properties

Clear. **Appearance** Color Colorless **Form** Liquefied gas Odor Slight ethereal. Odor threshold Not available

Physical state Gas

pН Not applicable Not available **Melting point** Not available Freezing point -25 °C (-13.00 °F) **Boiling point** -50 °C (-58.00 °F) Flash point Pour point Not available Not available **Evaporation rate** 

Flammability limits in air, lower, %

by volume

Flammability limits in air, upper, %

by volume

599.43 kPa @25°C Vapor pressure 2.4 @25°C (air=1) Vapor density

0.91 Specific gravity

0.9 g/cc @25°C Relative density Not available Octanol/water coefficient Slightly Solubility (H2O)

Auto-ignition temperature 454 °C (849.20 °F)

100 Percent volatile

## 10. Stability and Reactivity

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C (120.2°F).

Alkaline materials. Alkaline earth metals. Incompatible materials

May include and are not limited to: Oxides of carbon. Fluoride gases. Hazardous decomposition products

Possibility of hazardous reactions Hazardous polymerization does not occur.

## 11. Toxicological Information

**LC50** 

Component analysis - LC50

Ethane, 1,1-difluoro-> 64000 ppm rat

Component analysis - Oral LD50

Ingredient(s) **LD50** 

Ethane, 1,1-difluoro-1500 mg/kg rat

Effects of acute exposure

Ingredient(s)

Contact with liquid may cause frostbite. Eye Skin Contact with liquid may cause frostbite.

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Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness). Vapors may cause dizziness or

suffocation.

**Ingestion** Not a normal route of exposure.

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Synergistic Materials Not available

## 12. Ecological Information

Not available **Ecotoxicity** Not available **Environmental effects** Not available Aquatic toxicity Persistence / degradability Not available Bioaccumulation / accumulation Not available Not available Partition coefficient Mobility in environmental media Not available Chemical fate information Not available Not available Other adverse effects

## 13. Disposal Considerations

Waste codes

Not available

**Disposal instructions** 

Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues / unused

Not available

products

Not available

Contaminated packaging

ot available

## 14. Transport Information

## U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name 1,1-Difluoroethane

Hazard class 2.1 UN number 1030

Additional information:

Packaging exceptions

NOTE: Falcon Safety Products has been granted a DOT exemption that allows this product to

be shipped similar to a Consumer Commodity (ORM-D). A copy of the DOT exemption can be

obtained by calling Falcon Safety Products, Inc at 908-707-4900.



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Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

**Proper shipping name** 1,1-Difluoroethane

Hazard class 2.1 UN number 1030

Additional information:

Packaging exceptions Limited quantity (containers up to 125mL)



IATA/ICAO (Air)

Basic shipping requirements:

Proper shipping name 1,1-Difluoroethane

Hazard class 2.1 UN number 1030

Additional information:

Maximum net quantity Cargo aircraft only – 150 kg maximum

packaging (Forbidden on passenger aircraft)



15. Regulatory Information

Canadian federal regulations

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.

Canada - CEPA - Schedule I - List of Toxic Substances

Ethane, 1,1-difluoro- 75-37-6 Totally halogenated chlorofluorocarbons that have the molecular formula CnClxF(2n+2-x):

(a) quantities that may be manufactured or imported; (b) Prohibition on manufacture, use,

sale, offer for sale, import or export except for authorized uses [SOR/89-351, s. 16;

90-453, s. 5; 94-408, s. 24; 92-507, s. 17; 96-237, s. 5]

US Federal regulations 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.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

1 03

**CERCLA (Superfund) reportable quantity** 

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

WHMIS status Controlled

WHMIS classification Class A - Compressed Gas, Class B - Division 1 - Flammable Gas

WHMIS labeling





State regulations

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

U.S. - Louisiana - Reportable Quantity List for Pollutants

Ethane, 1,1-difluoro- 75-37-6 5000 Lb final RQ; 2270 kg final RQ

U.S. - Massachusetts - Right To Know List

Ethane, 1,1-difluoro- 75-37-6 Present U.S. - New Jersey - Right to Know Hazardous Substance List Ethane, 1.1-difluoro- 75-37-6 sn 0715

Inventory name

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)YesCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryYes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

## 16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate

and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

Issue date18-April-2012Effective date18-April-2012Expiry date18-April-2015

Prepared by Falcon Safety Products, Inc. (908) 707-4900

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

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## **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 chemical 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

**Supplier Address** 

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 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



Appearance Clear, pale yellow

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**

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	*	

<sup>\*</sup> The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

#### First aid measures

**General Advice** Show this safety data sheet to the doctor 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 effects, both acute and delayed

Most Important Symptoms and

Effects

Stinging and irritation of eyes.

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

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 containment 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, such as personal protective equipment

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Bleach

## **Physical and Chemical Properties**

Physical State Liquid
Appearance Clear Odor

Color Pale yellow Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks/ Method</u>

~12.5 pН 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/waterNo 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

Oxidizing Properties

No data available

No data available

**Other Information** 

Softening Point
VOC Content (%)
Particle Size
Particle Size Distribution
No data available
No data available
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	Chemical Name LD50 Oral		LC50 Inhalation
Sodium hypochlorite 7681-52-9	21 8200 ma/ka (Ran		-
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	hemical Name ACGIH		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**No information available.

**Chronic Toxicity** Carcinogenic potential is unknown.

Target Organ Effects 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)

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## 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** 

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III, MARINE POLLUTANT

**ICAO** 

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

HYPOCHLORITE), 9, III

**IATA** 

UN-No UN3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Class 9
Packing Group III

**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM

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

from listing.

**DSL/NDSL** 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 HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **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			X
Sodium hydroxide 1310-73-2	1000 lb			X

#### 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	Chemical Name Hazardous Substances RQs		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	X	
Sodium hydroxide 1310-73-2	Х	Х	Х	X	

## **International Regulations**

Canada WHMIS Hazard Class D2B - Toxic materials



#### 16. OTHER INFORMATION

NFPA Health Hazard 2 Flammability 0 Instability 0 Physical and Chemical Hazards -

HMIS Health Hazard 2 Flammability 0 Physical Hazard 0 Personal Protection B

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Revision Date New

Revision Note 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'émission5 janvier 2015Date de révisionNouvelleNuméro de révision

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

Identificateur de produit

Nom du produit Eau de Javel Clorox®

**Autres moyens d'identification** 

Synonymes Aucun

Utilisation recommandée pour le produit chimique et restrictions en matière

d'utilisation

**Utilisation recommandée**Lessive et eau de Javel domestique

**Utilisations déconseillées**Aucune information disponible

Renseignements concernant le fournisseur de la fiche de données de sécurité

Adresse du fournisseur

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

Eau de Javel Clorox® Date de révision Nouvelle

## 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 irritation des yeux



Apparence Transparent, jaune pâle

État physique Liquide

Odeur Javellisant

## 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	*

<sup>\*</sup> 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 importants, 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

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/m³	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

Odeur

Aucune connue

Aucune connue

Aucune connue

Aucune connue

Aucune connue

# Propriétés physiques et chimiques

État physique Liquide **Apparence Transparent** 

Couleur Seuil olfactif Jaune pâle Aucune information

disponible

Javellisant

**Propriété Valeurs** Remarques/ Méthode

pН ~ 12,5 Aucune connue Point de fusion/point de congélation Aucune donnée disponible Aucune connue Point d'ébullition / Domaine Aucune donnée disponible Aucune connue

d'ébullition Point d'éclair

Ininflammable Aucune connue Taux d'évaporation Aucune donnée disponible Aucune connue Inflammabilité (solide, gaz) Aucune donnée disponible Aucune connue

Limites d'inflammabilité dans l'air

Limite supérieure d'inflammabilité Aucune donnée disponible Aucune connue Limite inférieure d'inflammabilité Aucune donnée disponible Aucune connue Tension de vapeur Aucune donnée disponible Aucune connue Densité de la vapeur Aucune donnée disponible Aucune connue Densité ~ 1.05 Aucune connue

Solubilité dans l'eau

Soluble dans l'eau Aucune connue Solubilité dans d'autres solvants Aucune donnée disponible Aucune connue

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 Teneur en COV (%) Aucune donnée disponible Dimension de particules Aucune donnée disponible Distribution granulométrique Aucune donnée disponible

Page 6/11

# 10. STABILITÉ ET RÉACTIVITÉ

#### Réactivité

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	-	-

CIRC (Centre international de recherche sur le cancer)

Groupe 3 - Ne peut être classifié pour la cancérogénicité chez les humains

Toxicité pour la reproduction Aucune information disponible.

Toxicité pour certains organes cibles - exposition unique

Aucune information disponible.

Toxicité pour certains organes cibles - exposition répétée

Aucune information disponible.

Toxicité chronique

Le potentiel cancérogène est inconnu.

Effets sur les organes cibles

Appareil respiratoire, yeux, peau, tractus gastro-intestinal (GI).

Danger par aspiration Aucune information 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/I ETAmél (4 h)

# 12. DONNÉES ÉCOLOGIQUES

#### Écotoxicité

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

NON RÉGLEMENTÉ DOT

**TMD** 

Numéro ONU UN3082

Désignation officielle de

transport

MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, LIQUIDE, N.S.A.

Classe de danger q Groupe d'emballage

Ш

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 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 III

**Description** UN3082, MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT,

LIQUIDE, N.S.A. (HYPOCHLORITE DE SODIUM), 9, III

<u>IATA</u>

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 III

**Description** 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 III

**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 Tous les composants de ce produit sont soit inscrits sur l'inventaire TSCA 8(b) ou sont

exempts d'inscription.

LIS/LES 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

#### **ETATS-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			X
Hydroxyde de sodium 1310-73-2	1000 lb			X

# **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

NFPA Danger pour la santé 2Inflammabilité 0 Instabilité 0 Propriétés physiques et chimiques -

HMIS Danger pour la santé 2 Inflammabilité 0 Danger physique 0 Protection individuelle B

Préparée par Product Stewardship

23 British American Blvd. Latham, NY 12110 1 800 572-6501

Date de révision Nouvelle

Note de révision 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



# The Clorox Company 1221 Broadway Oakland, CA 94612 Tel. (510) 271-7000

# **Material Safety Data Sheet**

mpany ay 4612  Hazardous Ingredient yl (C14, 60%; C16, 30% 5%; C18, 5%) dimethyl- yl ammonium chloride yl (C12, 68%, C14, 32%) thyl Ethylbenzyl onium chloride ppanol #67-63-0  B ACGIH, TLV-TWA/STE	For Medical E (800) 4 For Transportation E (800) 4 edients <u>Concentration</u> 0.145%	elephone Nos. imergencies call: 446-1014 Emergencies Chemtrac 424-9300  Worker Exposure Limit Not established
mpany ay 4612  Hazardous Ingredient yl (C14, 60%; C16, 30% 5%; C18, 5%) dimethyl- A ammonium chloride yl (C12, 68%, C14, 32%) thyl Ethylbenzyl onium chloride oppanol #67-63-0  B ACGIH, TLV-TWA/STE	For Medical E (800) 4 For Transportation E (800) 4  edients  Concentration 0.145%	mergencies call: 446-1014 Emergencies Chemtrac 424-9300 <u>Worker Exposure Limit</u> Not established
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dient yl (C14, 60%; C16, 30% 5%; C18, 5%) dimethyl- yl (C12, 68%, C14, 32%) thyl Ethylbenzyl onium chloride opanol #67-63-0	Concentration 0.145% 0.145%	Not established
dient yl (C14, 60%; C16, 30% 5%; C18, 5%) dimethyl- yl (C12, 68%, C14, 32%) thyl Ethylbenzyl onium chloride opanol #67-63-0	Concentration 0.145% 0.145%	Not established
onium chloridé opanol #67-63-0 3 ACGIH, TLV-TWA/STE	1- 5%	
BACGIH, TLV-TWA/STE		400 ppm/500 ppm <sup>1</sup> 400 ppm <sup>2</sup>
- Short Term Exposure L OHSA Permissible Expo	ilue-Time Weighted A .imit osure Limit	
None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.		
ransportation a	and Regulato	ry Data
OOT, IATA, IMG Hazard I OOT Proper Shipping Nai SARA Title III/CERCLA:	Class: Not restricted.  me: None  Product may be rec	ulated under Sections
311/312. This product contains no chemicals regulated under Section 304/CERCLA or Section 313.  TSCA/DSL: All chemicals in this product are listed on the TSCA Inventor DSL status for some components has not been determined.		
Reactivity Data		
Stability: Mixing with sodium hypochlorite may release small amounts of formaldehyde gas.		
CONTRACTOR DO NOT BOOK	Store from from Of	орон нашь.
hysical Data		,
	ty: Mixing with sodium hadehyde gas.  ne/Disposal: Do not use of the social data  coint	dehyde gas. ne/Disposal: Do not use or store near heat or

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DATE PREPARED 7/06

# **DPD REAGENT #1**

Product: CR-0001

# **Section 1: PRODUCT INFORMATION**

Chemical family: Inorganic salt solution.

Product uses: Chemical.

Supplier: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4-1151 Gorham Street

Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Emergency Phone Number: Canutec 613–996–6666.

Manufacturer: Taylor Technologies Inc.

31 Loveton Circle Sparks, MD USA 21152 Tel: 410–472–4340.

TDG classification: Not regulated.

WHMIS classification:

D2B



**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

**Product name:** DPD Reagent #1.

#### **Section 2: HAZARDOUS INGREDIENTS**

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
7558-79-4	<10	DISODIUM PHOSPHATE		17,000 MG/KG RAT ORAL	NOT AVAILABLE
7778–77–0	<10	POTASSIUM PHOSPHATE		>4640 MG/KG RABBIT DERMAL	NOT AVAILABLE

# Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** Balance: Water (CAS# 7732–18–5).

(supplier).

## **Section 3: PHYSICAL DATA**

Physical state: Liquid.

Appearance & odor: Odourless.

Clear, colourless.

**Odor threshold (ppm):** Not available.

Vapour pressure (mmHg): 17

1/4

Vapour density (air=1): .64

Volatiles (%)

By volume: 68

**Evaporation rate** 

Not available. (butyl acetate = 1):

**Boiling point (°C):** 100

**Freezing point** (°C): Not available.

**pH**: 10

Specific gravity @ 20 °C: 1.24

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

#### **Section 4: FIRE & EXPLOSION DATA**

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

**Extinguishing media:** Carbon dioxide, dry chemical, foam.

Water spray.

**Special procedures:** Wear a positive–pressure, self–contained breathing apparatus and full protective

equipment.

**Auto-ignition temperature** (°C): Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability** limit (% vol): Not applicable.

**Upper flammability** limit (% vol): Not applicable.

**Explosion Data** 

Sensitivity to static discharge: Not applicable.

**Sensitivity to mechanical impact:** Not applicable.

**Hazardous combustion products:** Oxides of phosphorus (POx).

**Explosive power:** Not applicable.

# **Section 5: REACTIVITY DATA**

Chemical stability: Stable under normal conditions.

Conditions of instability: Extreme temperatures.

Extreme heat.

**Hazardous polymerization:** Not available.

**Incompatible substances:** None known.

Hazardous decomposition See hazardous combustion products.

CR-0001 - DPD REAGENT #1 2/4

#### **Section 6: TOXICOLOGICAL PROPERTIES**

Route of entry: Ingestion and skin contact.

Effects of acute exposure

Eye contact: Irritant.

**Skin contact:** May cause irritation.

**Inhalation:** May be harmful if inhaled.

Ingestion: Irritant.

May cause gastro–intestinal irritation. May cause nausea and diarrhea.

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

**LD50 of product, species & route:** Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available.

**Exposure limit of material:** Not available. **Sensitization to product:** Not available.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Not available.

**Teratogenicity:** Not available.

Mutagenicity: Not available.

Synergistic materials: Not available.

#### **Section 7: PREVENTATIVE MEASURES**

## **Precautionary Measures**

Gloves/Type:



General work gloves to minimize skin contact.

Respiratory/Type:



Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:



Safety glasses.

Footwear/Type: Safety shoes per local regulations.

**Clothing/Type:** 



Lab coat.

**Other/Type:** Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

CR-0001 - DPD REAGENT #1 3/4

Ventilation requirements: Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Absorb with inert material.

Wear appropriate protective equipment. Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

**Handling procedures and** Avoid breathing vapors/mists.

equipment: Use adequate ventilation.

Wear personal protective equipment appropriate to task.

Wash thoroughly after handling.

Avoid contact with skin, eyes and clothing. Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.

Store in a cool and dry place.

**Special shipping information:** See transportation information.

#### **Section 8: FIRST AID MEASURES**

**Skin contact:** Remove contaminated clothing.

Wash thoroughly with soap and water. Seek medical attention if irritation persists.

**Eye contact:** Immediately flush with cool water for at least 20 minutes.

Hold eyelids apart to ensure flushing of entire eye surface.

Get medical attention.

**Inhalation:** Remove victim to fresh air.

If irritation occurs, consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person.

Drink a large amount of water.

Do not induce vomiting, seek immediate medical attention.

**Additional information:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. This company shall not be held liable

for any inaccuracies.

## **Section 9: ADDITIONAL INFORMATION**

General note: This material safety data sheet was prepared from information obtained from

various sources, including product suppliers and the Canadian Center for

Occupational Health and Safety.

**Data prepared by:** Lowry & Associates, div. of Chem–Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4–1151 Gorham Street Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Supplier MSDS date: 2012/06/07.

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CR-0001 - DPD REAGENT #1 4/4

# **DPD REAGENT #2**

Product: CR-0002

# **Section 1: PRODUCT INFORMATION**

Chemical family: Acidic organic amine solution.

**Product uses:** Test chlorine levels in pools and spas.

Supplier: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4-1151 Gorham Street

Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Emergency Phone Number: Canutec 613–996–6666.

Manufacturer: Taylor Technologies Inc.

31 Loveton Circle Sparks, MD USA 21152 Tel: 410–472–4340.

**TDG classification:** Not regulated.

WHMIS classification:

D<sub>2</sub>B



**DSL status:** Cas# 6283–63–2 does not appear on the DSL or NDSL.

**Product name:** DPD Reagent #2

Controlled Product Identifier: DPD REAGENT #2

HMIRC Registration Number: 8162

Filing Date: April 7, 2011

Exemption granted on February 24, 2012.

# **Section 2: HAZARDOUS INGREDIENTS**

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
	5-10**				NOT AVAILABLE
6283-63-2	* *	1 7	NOT AVAILABLE		NOT AVAILABLE

# Section 2A: ADDITIONAL INGREDIENT INFORMATION

\*: Organic Acid – HMIRC Registry No. 8162 Exemption was granted on February 24, 2012.

\*\*: Units of concentration are % vol/vol.

#### **Section 3: PHYSICAL DATA**

Physical state: Liquid.

**Appearance & odor:** Odourless.

Clear, colourless.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 17

Vapour density (air=1): .65

Volatiles (%)

By volume: 99

**Evaporation rate**Not available.

(butyl acetate = 1):

Boiling point ( $^{\circ}$ C): 100

Freezing point (°C): Not available.

**pH:** 1.3

Specific gravity @ 20 °C: 1.01

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

#### Section 4: FIRE & EXPLOSION DATA

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

**Extinguishing media:** As suitable for surrounding fire.

Special procedures: Wear a positive-pressure, self-contained breathing apparatus and full protective

equipment.

**Auto-ignition temperature (°C):** Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability** limit (% vol): Not applicable.

Upper flammability Not applicable. limit (% vol):

**Explosion Data** 

Sensitivity to static discharge: Not applicable.

**Sensitivity to mechanical impact:** Not applicable.

Hazardous combustion products: Oxides of carbon (CO, CO2).

Oxides of nitrogen (NOx). Oxides of phosphorus (POx). Hydrogen cyanide gas (HCN).

Oxides of sulfur (SOx).

Contact with metals may produce flammable hydrogen gas.

Phosphine oxides.

CR-0002 - DPD REAGENT #2 2/5 Explosive power: Not applicable.

## **Section 5: REACTIVITY DATA**

Chemical stability: Stable under normal conditions.

**Conditions of instability:** Extreme temperatures.

Extreme heat.

Hazardous polymerization: Not available.

**Incompatible substances:** Metals.

Strong caustics. Oxidizers.

**Hazardous decomposition** 

See hazardous combustion products.

azardous decomposition products:

# **Section 6: TOXICOLOGICAL PROPERTIES**

**Route of entry:** Ingestion and skin contact.

Effects of acute exposure

Eye contact: Irritant.

Organic acid has caused eye corrosion in animals.

**Skin contact:** May cause dermatitis.

Irritant.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** Irritant.

May cause diarrhea.

May cause gastro-intestinal irritation.

May cause cramps.

Toxic

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

**LD50** of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available.

**Exposure limit of material:** Not available. **Sensitization to product:** Not available.

Carcinogenic effects: Not listed as a carcinogen.

Reproductive effects: Not available.

**Teratogenicity:** Not available.

**Mutagenicity:** Not available.

Synergistic materials: Not available.

# **Section 7: PREVENTATIVE MEASURES**

#### **Precautionary Measures**

CR-0002 - DPD REAGENT #2 3/5

Gloves/Type:



General work gloves to minimize skin contact.

**Respiratory/Type:** If working area is not ventilated, wear an approved respirator.

Not necessary, if adequate ventilation provided.

Eye/Type:



Splash proof chemical safety goggles or face shield.

**Footwear/Type:** Safety shoes per local regulations.

Clothing/Type:



Lab coat

**Other/Type:** Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

**Ventilation requirements:** Adequate general ventilation.

Leak/Spill: Absorb with inert material.

Wear appropriate protective equipment.

Neutralize with soda ash.

Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

**Handling procedures and** Avoid breathing vapors/mists.

**equipment:** Use adequate ventilation.

Wear personal protective equipment appropriate to task.

Wash thoroughly after handling.

Avoid contact with skin, eyes and clothing. Launder contaminated clothing prior to reuse.

**Storage requirements:** Keep out of direct sunlight.

Store in a cool and dry place.

**Special shipping information:** See transportation information.

# **Section 8: FIRST AID MEASURES**

**Skin contact:** Remove contaminated clothing. Wash affected area with soap and water. Get

medical attention.

Eye contact: Immediately flush the eyes with lukewarm, gently flowing water for at least 30

minutes holding eyelids open. Seek medical attention immediately.

**Inhalation:** Remove victim to fresh air.

If irritation occurs, consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person.

Do not induce vomiting, seek immediate medical attention.

**Additional information:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. This company shall not be held liable

for any inaccuracies.

CR-0002 - DPD REAGENT #2 4/5

# **Section 9: ADDITIONAL INFORMATION**

**General note:** This material safety data sheet was prepared from information obtained from

various sources, including product suppliers and the Canadian Center for

Occupational Health and Safety.

Data prepared by: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4–1151 Gorham Street Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Supplier MSDS date: 2012/06/08.

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CR-0002 - DPD REAGENT #2 5/5

# **DPD REAGENT #3**

Product: CR-0003

# **Section 1: PRODUCT INFORMATION**

Chemical family: Inorganic salt solution.

Product uses: Chemical.

Supplier: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4-1151 Gorham Street

Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Emergency Phone Number: Canutec 613–996–6666.

Manufacturer: Taylor Technologies Inc.

31 Loveton Circle Sparks, MD USA 21152 Tel: 410–472–4340.

TDG classification: Not regulated.

WHMIS classification:

D2A



**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

**Product name:** DPD Reagent #3.

#### Section 2: HAZARDOUS INGREDIENTS

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
7681-11-0	<20	POTASSIUM IODIDE	0.01 PPM	NOT AVAILABLE	NOT AVAILABLE

# Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** Balance: Water (CAS# 7732–18–5).

(supplier).

CAS# 7681-11-0 LD50 1862 mg/kg mouse oral.

# **Section 3: PHYSICAL DATA**

Physical state: Liquid.

Appearance & odor: Odourless.

Clear, colourless.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 17 Vapour density (air=1): .6 Volatiles (%)

By volume: 80

**Evaporation rate** Not available. (butyl acetate = 1):

**Boiling point** ( $^{\circ}$ C): 100

Freezing point (°C): Not available.

**pH:** 7.6

Specific gravity @ 20 °C: 1.07

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

# **Section 4: FIRE & EXPLOSION DATA**

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: As suitable for surrounding fire.

**Special procedures:** Wear a positive–pressure, self–contained breathing apparatus and full protective

equipment.

Auto-ignition temperature (°C): Not applicable.

**Flash point** (°C), **method:** Not applicable.

**Lower flammability** Not applicable.

**Upper flammability limit (% vol):** Not applicable.

Explosion Data

**Sensitivity to static discharge:** Not applicable.

**Sensitivity to mechanical impact:** Not applicable.

Hazardous combustion products: Iodine oxides.

**Explosive power:** Not applicable.

#### **Section 5: REACTIVITY DATA**

Chemical stability: Stable under normal conditions.

**Conditions of instability:** Extreme temperatures.

Extreme heat.

Hazardous polymerization: Not available.

Incompatible substances: Acids

Oxidizers.

**Hazardous decomposition** 

See hazardous combustion products. products:

CR-0003 - DPD REAGENT #3 2/4

#### Section 6: TOXICOLOGICAL PROPERTIES

Route of entry: Ingestion and skin contact.

Effects of acute exposure

**Eye contact:** May cause irritation. **Skin contact:** May cause irritation.

**Inhalation:** May be harmful if inhaled.

Ingestion: Irritant.

May cause gastro-intestinal irritation.

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

LD50 of product, species & route: Not available.

LC50 of product, species & route: Not available.

Exposure limit of material: Not available.

Carcinogenic effects: Not listed as a carcinogen.

**Reproductive effects:** Not available.

**Sensitization to product:** Not available.

**Teratogenicity:** May affect the developing fetus.

Mutagenicity: Not available. Synergistic materials: Not available.

# **Section 7: PREVENTATIVE MEASURES**

#### **Precautionary Measures**

Gloves/Type:



General work gloves to minimize skin contact.

Respiratory/Type:



Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:



Safety glasses.

**Footwear/Type:** Safety shoes per local regulations.

Clothing/Type:



Lab coat.

**Other/Type:** Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

CR-0003 - DPD REAGENT #3 3/4

**Ventilation requirements:** Provide sufficient mechanical ventilation to maintain exposure below TLV.

Leak/Spill: Absorb with inert material.

Wear appropriate protective equipment. Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

 $\label{thm:conditional} \textbf{Handling procedures and} \quad \text{Avoid breathing vapors/mists}.$ 

equipment: Use adequate ventilation.

Wear personal protective equipment appropriate to task.

Wash thoroughly after handling.

Avoid contact with skin, eyes and clothing. Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.

Store in a cool and dry place.

**Special shipping information:** See transportation information.

#### **Section 8: FIRST AID MEASURES**

Skin contact: Remove contaminated clothing. Wash affected area with soap and water. Get

medical attention.

**Eye contact:** Immediately flush with cool water for at least 20 minutes.

Hold eyelids apart to ensure flushing of entire eye surface.

Get medical attention.

Inhalation: Remove victim to fresh air.

If irritation occurs, consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person.

Drink a large amount of water.

Do not induce vomiting, seek immediate medical attention.

**Additional information:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. This company shall not be held liable

for any inaccuracies.

#### Section 9: ADDITIONAL INFORMATION

General note: This material safety data sheet was prepared from information obtained from

various sources, including product suppliers and the Canadian Center for

Occupational Health and Safety.

Data prepared by: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4–1151 Gorham Street

Newmarket, ON.

L3Y 8Y1

Tel: 905–836–0505 Fax: 905–895–4539.

Supplier MSDS date: 2012/06/07.

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CR-0003 - DPD REAGENT #3 4/4

# **SULFURIC ACID .12N**

Product: CR-0009

# **Section 1: PRODUCT INFORMATION**

Chemical family: Inorganic acid solution.

Product uses: Chemical.

Supplier: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4-1151 Gorham Street

Newmarket, ON.

L3Y 8Y1

Tel: 905-836-0505 Fax: 905-895-4539.

Emergency Phone Number: Canutec 613–996–6666.

Manufacturer: Taylor Technologies Inc.

31 Loveton Circle Sparks, MD USA 21152 Tel: 410–472–4340.

**TDG classification:** Not regulated.

WHMIS classification:

D2B



**DSL status:** The substance(s) listed in section 2 appear on the Domestic Substances List.

**Product name:** Sulfuric Acid .12N.

#### **Section 2: HAZARDOUS INGREDIENTS**

C.A.S.	CONCENTRATION %	Ingredient Name	T.L.V.	LD/50	LC/50
7664–93–9	<1	SULFURIC ACID		RAT ORAL	510 MG/M3/2H RAT INHALATION 320 MG/M3/2H MOUSE INHALATION

#### Section 2A: ADDITIONAL INGREDIENT INFORMATION

**Note:** Balance: Water (CAS# 7732–18–5).

(supplier).

# **Section 3: PHYSICAL DATA**

Physical state: Liquid.

Appearance & odor: Odourless.

Clear, colourless.

Odor threshold (ppm): Not available.

Vapour pressure (mmHg): 17

Vapour density (air=1): .6

Volatiles (%)

By volume: 100

**Evaporation rate** 

Not available. (butyl acetate = 1):

**Boiling point (°C):** 100

**Freezing point** (°C): Not available.

**pH:** 1.3

Specific gravity @ 20 °C: 1

Solubility in water (%): Soluble.

Coefficient of water\oil dist.: Not available.

#### **Section 4: FIRE & EXPLOSION DATA**

Flammability: Not flammable.

Conditions of flammability: Surrounding fire.

Extinguishing media: Dry chemical.

Carbon dioxide.

**Special procedures:** Wear a positive–pressure, self–contained breathing apparatus and full protective

equipment.

**Auto-ignition temperature** (°C): Not applicable.

Flash point (°C), method: Not applicable.

**Lower flammability** limit (% vol): Not applicable.

**Upper flammability** limit (% vol): Not applicable.

**Explosion Data** 

Sensitivity to static discharge: Not applicable.

**Sensitivity to mechanical impact:** Not applicable.

**Hazardous combustion products:** Oxides of sulfur (SOx).

Hydrogen gas when in contact with metals.

**Explosive power:** Not applicable.

#### Section 5: REACTIVITY DATA

Chemical stability: Stable under normal conditions.

Conditions of instability: Contact with water.

Extreme temperatures.

Extreme heat.

Hazardous polymerization: Not available.

**Incompatible substances:** Strong alkalies.

Metals.

See hazardous combustion products.

# **Section 6: TOXICOLOGICAL PROPERTIES**

**Route of entry:** Ingestion and skin contact.

Effects of acute exposure

Eye contact: Irritant.

May cause burns.

Skin contact: Irritant.

May cause burns.

**Inhalation:** May be harmful if inhaled.

**Ingestion:** May cause gastro–intestinal irritation.

Effects of chronic exposure: Pre-existing eye and skin disorders may be aggravated by exposure to this product.

LD50 of product, species & route: Not available for mixture, see the ingredients section.

LC50 of product, species & route: Not available for mixture, see the ingredients section.

Exposure limit of material: Not available for mixture, see the ingredients section.

**Sensitization to product:** Not available.

Carcinogenic effects: Not listed as a carcinogen.

**Reproductive effects:** Not available.

Teratogenicity: Not available.

**Mutagenicity:** Not available.

Synergistic materials: Not available.

#### **Section 7: PREVENTATIVE MEASURES**

#### **Precautionary Measures**

Gloves/Type:



General work gloves to minimize skin contact.

Respiratory/Type:



Wear a NIOSH approved respirator if TLV is exceeded.

Eye/Type:



Safety glasses.

**Footwear/Type:** Safety shoes per local regulations.

Clothing/Type:



Lab coat.

**Other/Type:** Eye wash facility should be in close proximity.

Emergency shower should be in close proximity.

**Ventilation requirements:** Provide sufficient mechanical ventilation to maintain exposure below TLV.

**Leak/Spill:** Absorb with inert material.

Wear appropriate protective equipment.

Neutralize with soda ash.

Place in a closed container for disposal.

Waste disposal: In accordance with municipal, provincial and federal regulations.

Handling procedures and Avoid breathing vapors/mists.

equipment: Use adequate ventilation.

Wear personal protective equipment appropriate to task.

Wash thoroughly after handling.

Avoid contact with skin, eyes and clothing. Launder contaminated clothing prior to reuse.

Storage requirements: Keep out of direct sunlight.

Store in a cool and dry place.

**Special shipping information:** See transportation information.

#### **Section 8: FIRST AID MEASURES**

Skin contact: Remove contaminated clothing. Wash affected area with soap and water. Get

medical attention.

**Eye contact:** Immediately flush with cool water for at least 20 minutes.

Hold eyelids apart to ensure flushing of entire eye surface.

Get medical attention.

**Inhalation:** Remove victim to fresh air.

If irritation occurs, consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person.

Drink a large amount of water.

Do not induce vomiting, seek immediate medical attention.

**Additional information:** The above information is believed to be correct but does not purport to be all

inclusive and shall be used only as a guide. This company shall not be held liable

for any inaccuracies.

#### **Section 9: ADDITIONAL INFORMATION**

**General note:** This material safety data sheet was prepared from information obtained from

various sources, including product suppliers and the Canadian Center for

Occupational Health and Safety.

Data prepared by: Lowry & Associates, div. of Chem-Aquascience, Inc

Canadian Master Distributors for Taylor Technologies, Inc.

4–1151 Gorham Street Newmarket, ON.

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Tel: 905–836–0505 Fax: 905–895–4539.

Supplier MSDS date: 2012/06/07.

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## MATERIAL SAFETY DATA SHEET

#### I. IDENTITY:

Label Name: Cramer Tuf-Skin (colorless and original)

Date Prepared: 4/12/2013

Item Numbers: 204027, 204028, 204033, 203531

Chemical Name and Synonyms: N/A

Package type: Aerosol

Chemical Family: Mixture

Manufacturer: Cramer Products, Inc. Emergency Telephone No.

153 West Warren (913) 856-7511

Gardner, KS 66030

# II. HAZARDOUS INGREDIENTS:

Hazardous Components	CAS#	OSHA- PEL	ACGIH- TLV	%
Hydrocarbon Propellant		1000 ppm	1000 ppm	>25%
Isobutane	75-28-5			
Propane	74-98 <b>-</b> 6			
n-Butane	106-97-8			
Isopropyl Alcohol	67-63-0	400 ppm	400 ppm	>45%

# III. PHYSICAL CHARACTERISTICS:

Boiling Point: N/A Specific Gravity (Water=1): N/A

Vapor Pressure: ~50 psig (in aerosol can) Melting Point: N/A

Vapor Density: (Air=1): <1 Percent Volatile by Volume: >85%

Evaporation Rate: ~2.3 (liquid contents; Butyl Acetate =1) Solubility in Water: partial

Appearance and Odor: Clear spray with alcohol odor and sticky residue.

# IV. FIRE AND EXPLOSION HAZARD:

Flash Point: -50°F closed cup Flammable Limits: Lel Uel Extinguishing Media: Dry chemical or carbon dioxide (Isopropyl Alcohol) 2 12

Special Fire Fighting Procedures: This is an aerosol product. Use procedures for flammable aerosols. Unusual Fire and Explosion Hazards: Contents are flammable and under pressure: if released would add to fire intensity. Rupturing containers may become projectiles.

#### V. REACTIVITY DATA:

Stability: stable Conditions to Avoid: Avoid heat, sparks, open flame

Incompatibility to Avoid: Anhydrides, isocyanates, organometallics, oxygen, and oxidizers

Hazardous Decomposition Byproducts: Thermal decomposition or burning may produce carbon monoxide

and/or carbon dioxide

Hazardous Polymerization: will not occur Conditions to Avoid: None known

#### VI. HEALTH HAZARD DATA:

Effects of acute overexposure for: Isopropyl Alcohol

Eyes: Can cause severe irritation, redness, tearing, blurred vision

Skin: Prolonged or repeated contact can cause moderate irritation, defatting, dermatitis.

Breathing: Excessive inhalation of vapors can cause nasal and respiratory irritation, headache, possible unconsciousness, and even death.

Swallowing: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Effects of chronic overexposure: Isopropyl Alcohol has been found to cause damage to the liver, kidneys and brains of laboratory animals.

Emergency and First Aid Procedures:

If in eyes: Flush with large amounts of water. Cautiously attempt to lift upper and lower lids occasionally; get medical attention immediately.

If on skin: Thoroughly wash exposed area with soap and water.

If breathed: Remove to fresh air; administer oxygen. Consult physician immediately.

If swallowed: Immediately drink two glasses of water and induce vomiting. Get medical attention immediately.

# VII. PRECAUTIONS FOR SAFE HANDLING AND USE:

Spills: Eliminate all sources of ignition. Spills should be collected for disposal.

Waste Disposal: Dispose of product in accordance with applicable local, county, state and federal regulations. Handling and Storage: Product is an aerosol. Do not use near fire, flame or hot surfaces. Do not puncture or incinerate. Do not expose to heat or store at temperatures above 120° F. Keep out of reach of children.

#### **VIII. · CONTROL MEASURES:**

Respiratory Protection: None required in normal use. As with all sprays, breathing mist should be avoided.

Ventilation: Use in well ventilated area. Protective Gloves: None required Eye Protection: Not required

Protective Clothing or Equipment: None required

# IX. OTHER INFORMATION:

NFPA Hazard Ratings: Health 1; Flammability 3; Reactivity 1

Abbreviation Key: N/A = Not Applicable; Lel = Lower explosive limit; Uel = Upper explosive limit

The information contained herein is believed to be accurate. It is the user's obligation to determine the safe use of the product.



# **SAFETY DATA SHEET**

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

# SECTION 1: Identification

**Product identifier** 

Product name Cyanuric Acid Reagent

Product number R-0013

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

# SECTION 2: Hazard(s) identification

Physical hazards Not applicable
Health hazards Not applicable

Environmental hazards Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Label elements

Hazard pictograms Not applicable
Signal word Not applicable
Hazard statements Not applicable

Precautionary statements

Prevention Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with

water. If ingested, contact physician or local poison control center. Treat symptoms as needed.

Response This reagent is not defined as a hazardous chemical per OSHA's Hazard Communication

Standard 2012; however, use care when handling.

Storage Keep tightly capped. Store out of direct sunlight between 36°F–85°F.

Disposal Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazards not otherwise classified Not applicable

# SECTION 3: Composition/information on ingredients

#### **Mixture**

Chemical name	Common name and synonyms	CAS number	% w/w
Water	Dihydrogen oxide	7732-18-5	80-100
Nonhazardous and other components below reportable levels	Not applicable	Not applicable	1-5

#### SECTION 4: First-aid measures

#### If inhaled

Remove individual to fresh air. Seek medical advice/attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

# In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical advice/attention if irritation develops.

#### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice/attention.

#### If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice/attention.

SDS US

## Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects

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

Provide general supportive measures and treat symptomatically.

#### General information

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Specific hazards arising

from the substance or mixture

Fire hazard Not flammable **Explosion hazard** Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion products Carbon oxides, nitrogen oxides, sodium oxides. Other irritating fumes and smoke.

Advice for firefighters

Precautionary measures Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting

Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

# SECTION 6: Accidental release measures

## Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

# **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recovery, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

## Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

# SECTION 7: Handling and storage

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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

# Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F-85°F. Store away from incompatible materials (refer to section 10 of the SDS).

# SECTION 8: Exposure controls/personal protection

# Occupational exposure limits

Not regulated

# **US NIOSH: Pocket Guide to Chemical Hazards**

Not regulated

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Not regulated

#### **Biological limit values**

No biological exposure limits noted for the ingredient(s)

#### **Exposure controls**

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. Eyewash facilities and emergency shower must be available when handling

this product.

Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing if contact is likely to occur.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the

exposure limits. Advice should be sought from respiratory protection suppliers.

# SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless or nearly colorless

Odor Odorless

Odor threshold No data available

pH 5.8

Evaporation rate No data available Melting point No data available Freezing point No data available Initial boiling point (boiling range) No data available Flash point No data available No data available Specific gravity No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Upper Flammability Limit No data available Lower Flammability Limit No data available Vapor pressure No data available

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

Vapor density

No data available

No data available

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

# **SECTION 10: Stability and reactivity**

**Reactivity** Hazardous reactions will not occur under normal conditions.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

Conditions to avoid Incompatible materials

reactions

No dangerous reaction known under conditions of normal use

Contact with incompatible materials. Do not use in areas without adequate ventilation.

Acetaldehyde, acids, chlorine, ethylene oxide, isocyanates, metals, organic materials,

peroxides, phenols, reducing agents, strong bases, strong oxidizing agents

**Hazardous decomposition** 

products

Hazardous reactions will not occur under normal conditions

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# SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure are skin/eye contact and ingestion.

Most important

symptoms/effects, acute and

delayed

skin/eye contact and ingestion.

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness

and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and

breathing difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Acute toxicity** This product is not classified as an acute toxicity hazard.

Skin corrosion/irritationNo data availableSerious eye damage/eye irritationNo data availableRespiratory sensitizationNo data availableSkin sensitizationNo data availableGerm cell mutagenicityNo data available

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**US National Toxicology Program (NTP) Report on Carcinogens** 

Not regulated

Reproductive toxicity
Specific target organ toxicity

(single exposure)

No data available No data available

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard No data available

# SECTION 12: Ecological information

**Ecotoxicity** This product is not classified as environmentally hazardous.

Persistence and degradabilityNo data availableBioaccumulative potentialNo data availableMobility in soilNo data available

Other adverse effects Large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

Not regulated as dangerous goodsIATANot regulated as dangerous goodsIMDGNot regulated as dangerous goods

# SECTION 15: Regulatory information

**US federal regulations** 

**CERCLA Hazardous Substance (40 CFR 302.4)** 

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

**SARA 304 Emergency Release Notification** 

Not regulated

# SARA 311/312 Hazardous Chemical

Not regulated

#### SARA 313 (TRI reporting)

Not regulated

#### TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

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

Not regulated

## Other federal regulations

# Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

#### Safe Drinking Water Act (SDWA)

Not regulated

## **US** state regulations

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (California Proposition 65)

Not regulated

#### Massachusetts Right-to-Know Act

Not regulated

#### New Jersey Worker and Community Right-to-Know Act

Not regulated

# Pennsylvania Worker and Community Right-to-Know Act

Not regulated

#### Rhode Island Right-to-Know Act

Not regulated

# SECTION 16: Other information

#### **NFPA Rating**

Health hazard 0
Fire hazard 0
Reactivity 0
Specific N/A

## Disclaimer

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## Issue date:

May 2015

## Last revisions

April 2018

# ESCA TECH INC -- D-LEAD SKIN CLEANSER & BODY SOAP -- 8520-00F031473 =========== Product Identification ===================== Product ID:D-LEAD SKIN CLEANSER & BODY SOAP MSDS Date:01/24/1991 FSC:8520 NIIN:00F031473 MSDS Number: BSNMJ === Responsible Party === Company Name: ESCA TECH INC Address:4860 N HOPKINS ST City:MILWAUKEE State:WI ZIP:53209 Country: US Info Phone Num: 414-461-1129/FAX 414-461-7123 Emergency Phone Num: 414-461-1129 CAGE: ESCAT === Contractor Identification === Company Name: ESCA TECH INC Address:4860 N HOPKINS ST City:MILWAUKEE State:WI ZIP:53209 Country: US Phone: 414-461-1129/FAX 414-461-7123 CAGE: ESCAT ======= Composition/Information on Ingredients ======== Ingred Name: ANIONIC SURFACTANT Routes of Entry: Inhalation: NO Skin: NO Ingestion: YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: PROLONGED SKIN EXPOSURE CAN DE-FAT THE SKIN. EYES: MAY CAUSE TEMPORARY DISCOMFORT. Explanation of Carcinogenicity:NONE First Aid: SKIN: RINSE W/WATER. IF EXPOSED TO LENGTHY TIMES, USE HAND

First Aid:SKIN: RINSE W/WATER. IF EXPOSED TO LENGTHY TIMES, USE HAND CREAM. EYES: FLUSH W/WATER, LIFTING LIDS. INGESTION: TREAT AS DETERGENT. OBTAIN MEDICAL ATTENTION IN ALL CASES.

======== Fire Fighting Measures ==============

Flash Point:NONE

Fire Fighting Procedures: NONE REQUIRED, MATERIAL IS NOT FLAMMABLE.

========= Accidental Release Measures ==============

Spill Release Procedures:STOP LEAK AT SOURCE. FLUSH FLOOR W/WATER. RINSE AREA OF SPILLAGE.

Handling and Storage Precautions: STORE > 32F. IF FROZEN, IT WILL THAW W/OUT ADVERSE EFFECT. KEEP OUT OF EXTREME HEAT. GENERALLY STORED AT TEMPS 40-90F, OUT OF DIRECT SUNLIGHT. ====== Exposure Controls/Personal Protection ========= Eye Protection: REQUIRED Work Hygienic Practices: IF CLOTHING IS WET FROM SOAP, REMOVE & WASH. USE GOOD HYGIENIC PRACTICES. Supplemental Safety and Health ======== Physical/Chemical Properties =========== Boiling Pt:B.P. Text:210F Vapor Pres:17 Vapor Density:>1 Spec Gravity:1.05 pH:8-8.5 Evaporation Rate & Reference: SLOWER THAN BU AC Solubility in Water: COMPLETE Appearance and Odor: PINK MOBILE LIQUID W/PLEASANT HONEY ALMOND FRAGRANCE ======== Stability and Reactivity Data ============ Stability Indicator/Materials to Avoid:YES Stability Condition to Avoid: TEMPS <32F, EXTREME HEAT, DIRECT SUNLIGHT ======= Disposal Considerations ===========

Waste Disposal Methods: WASH SPILLS DOWN DRAIN OR SOAK UP IN ABSORPTIVE MEDIA & DEPOSIT IN WASTE CAN. AFTER USE, SOAP SOLUTION WILL CONTAIN DISSOLVED HEAVY METALS. DISCHARGE WASTE WATER IN ACCORDANCE W/LOCAL/STATE/FED REGS & IN ACCORDANCE W/ALL WATER DISCHARGE PERMITS.

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#### **MATERIAL SAFETY DATA SHEET**

**A05525 02 00 DATE OF PREPARATION**Nov 29, 2010

#### SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT NUMBER

A05525

#### PRODUCT NAME

SS Cleaner

#### **MANUFACTURER'S NAME**

THE SHERWIN-WILLIAMS CO. Diversified Brands

Cleveland, OH 44115

**Telephone Numbers and Websites** 

relephone Humbers and Websites	
Product Information	(800) 777-2966
Regulatory Information	(216) 566-2902
	www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, lea	ak, fire, exposure, or accident)

#### **SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS**

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
9	74-98-6	Propane		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
21	106-97-8	Butane		
		ACGIH TLV	800 PPM	760 mm
		OSHA PEL	800 PPM	
40	64742-47-8	Aliphatic Solvent		
		ACGIH TLV	Not Available	0.1 mm
		OSHA PEL	Not Available	
30	64742-52-5	Heavy Naphthenic Petro	leum Oil	
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

#### **SECTION 3 — HAZARDS IDENTIFICATION**

#### **ROUTES OF EXPOSURE**

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

#### **EFFECTS OF OVEREXPOSURE**

EYES: Irritation.

**SKIN:** Prolonged or repeated exposure may cause irritation.

**INHALATION:** Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

#### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

#### **CANCER INFORMATION**

For complete discussion of toxicology data refer to Section 11.

HMIS Codes
Health 2
Flammability 4
Reactivity 0

#### **SECTION 4 — FIRST AID MEASURES**

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

#### **SECTION 5 — FIRE FIGHTING MEASURES**

FLASH POINT LEL UEL EXTINGUISHING MEDIA

Propellant < 0 °F 1.3 9.5 Carbon Dioxide, Dry Chemical, Foam

#### UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

#### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

#### **SECTION 6 — ACCIDENTAL RELEASE MEASURES**

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

#### **SECTION 7 — HANDLING AND STORAGE**

#### STORAGE CATEGORY

Not Available

#### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

### SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

#### **VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

#### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

#### PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

#### **EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

#### OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

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

PRODUCT WEIGHT 6.06 lb/gal 726 g/l

 SPECIFIC GRAVITY
 0.73

 BOILING POINT
 <0 - 495 °F</td>
 <-18 - 257 °C</td>

MELTING POINT Not Available VOLATILE VOLUME 75%

EVAPORATION RATE Faster than ether VAPOR DENSITY Heavier than air

SOLUBILITY IN WATER N.A.

**VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)** 

Volatile Weight 70.00% Less Water and Federally Exempt Solvents

#### **SECTION 10 — STABILITY AND REACTIVITY**

STABILITY — Stable CONDITIONS TO AVOID

None known.

**INCOMPATIBILITY** 

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION** 

Will not occur

#### **SECTION 11 — TOXICOLOGICAL INFORMATION**

#### **CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

#### **TOXICOLOGY DATA**

CAS No.	Ingredient Name			
74-98-6	Propane			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
106-97-8	Butane			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
64742-47-8	Aliphatic Solvent			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
64742-52-5	Heavy Naphthenic Petroleum Oil			
	LC50 RAT	4HR	Not Available	
	LD50 RAT		Not Available	
		4HR		

#### **SECTION 12 — ECOLOGICAL INFORMATION**

#### **ECOTOXICOLOGICAL INFORMATION**

No data available.

#### **SECTION 13 — DISPOSAL CONSIDERATIONS**

#### **WASTE DISPOSAL METHOD**

Waste from this product may be hazardous as defined under the Resource 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/Provincial, and Local regulations regarding pollution.

#### **SECTION 14 — TRANSPORT INFORMATION**

#### **US Ground (DOT)**

May be classed as Consumer Commodity, ORM-D

UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

#### Canada (TDG)

May be classed as Consumer Commodity, ORM-D

UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

#### IMO

May be shipped as Limited Quantity UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U, ADR (D)

#### **SECTION 15 — REGULATORY INFORMATION**

#### SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No. | CHEMICAL/COMPOUND | % by WT | % Element

No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

#### **CALIFORNIA PROPOSITION 65**

WARNING: This product contains a chemical known to the State of California to cause cancer.

#### **TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

#### **SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 10/15/2015 Version: 2.0 Revision date: 5/15/2018

**SECTION 1: Identification** 

**Product identifier** 

Substance name : Dust-Off Compressed Gas Duster

Product code : 3.5 oz., 7 oz., 10 oz., Professional 12 oz., Jumbo 17 oz., Classic and Plus

Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Dust Removal

Details of the supplier of the safety data sheet

Falcon Safety Products, Inc. 25 ImClone Drive

Branchburg, NJ 08876 - USA

T (908) 707-4900

**Emergency telephone number** 

**Emergency number** : (800) 498-7192

#### **SECTION 2: Hazards identification**

#### Classification of the substance or mixture

#### **GHS-US** and **GHS-CA** classification

Flam. Aerosol 2

Press. Gas (Liquified Gas)

#### **Label elements**

#### **GHS-US** and **GHS-CA** labelling

Hazard pictograms (GHS-US/GHS-CA)



GHS02

GHS04

Signal word (GHS-US/GHS-CA)

Hazard statements (GHS-US/GHS-CA)

: Warning

: Flammable aerosol. Contains gas under pressure; may explode if heated.

Precautionary statements (GHS-US/GHS-CA)

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. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a wellventilated place.

#### Other hazards

Do not store in enclosed vehicle.

#### 2.4. Unknown acute toxicity (GHS US/GHS CA)

Not applicable.

#### **SECTION 3: Composition/information on ingredients**

#### **Substance**

Name	Product identifier	%
1,1-Difluoroethane	(CAS No) 75-37-6	100

#### 3.2. **Mixture**

Not applicable.

#### **SECTION 4: First aid measures**

#### **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.

: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and First-aid measures after skin contact

shoes. Wash clothing before reuse. Call a physician if irritation develops and persists. May cause frostbite.

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#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

First-aid measures after eye contact : In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. 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.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory tract irritation. May cause drowsiness, dizziness and central nervous system

depression.

Symptoms/injuries after skin contact : May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

May cause frostbite on contact with the liquid.

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. May cause frostbite on contact with the liquid.

Symptoms/injuries after ingestion : Not a normal route of exposure.

#### 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 : Water spray, water fog, dry chemical, alcohol resistant foam, carbon dioxide.

Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable aerosol. Products of combustion may include, and are not limited to: oxides of

carbon, hydrofluoric acid, carbonyl fluoride.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of

burns and injuries.

#### 5.3. Advice for firefighters

Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Vapors are heavier than air

and may travel considerable distance to an ignition source and flash back to source of vapors.

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory

protection (SCBA).

#### **SECTION 6: Accidental release measures**

#### 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. Eliminate sources of ignition.

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

For containment : Ventilate the area thoroughly, especially low lying areas (basements, workpits etc).

Methods for cleaning up : Leave the product to evaporate. Provide ventilation.

#### 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

Additional hazards when processed : Hazardous waste due to potential risk of explosion. Pressurized container: Do not pierce or

burn, even after use. Keep away from sources of ignition - No smoking.

Precautions for safe handling

: Do not spray on an open flame or other ignition source. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Provide local exhaust or general room ventilation. When using do not eat, drink or smoke. Prevent the build-up of electrostatic

charge. Use non-sparking tools.

Hygiene measures : Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Keep out of the reach of children. Keep container dry and in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep in fireproof place.

Store in original container. Do not store in enclosed vehicle.

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

Not available.

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### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

1,1-Difluoroethane (75-37-6)	
ACGIH	Not applicable.
OSHA	Not applicable.
NIOSH	Not applicable.
IDLH	Not applicable.

#### 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 suitable gloves.

Eye protection : Safety glasses with side shields. 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.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Gas
Appearance : Clear
Color : Colourless
Odor : Slight, ether-like
Odor threshold : No data available

pH : Neutral

Melting point No data available Freezing point : No data available -13 °F (- 25 °C) Boiling point Flash point : < 58 °F (<14.4 °C) Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Flammable **Explosion limits** : 3.9-16.9 Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : 5960 kPa at 77 °F (25 °C)

Relative density : 0.91

Relative vapor density at 20  $^{\circ}$ C : 2.4 at 77  $^{\circ}$ F (25  $^{\circ}$ C)

Specific gravity / density : 0.9
Solubility : Slightly

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 : No data available
Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available.

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Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### **SECTION 10: Stability and reactivity**

#### 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.

#### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### **Conditions to avoid**

Heat. Incompatible materials. Sources of ignition. Do not expose to temperatures exceeding 50 °C/ 122 °F.

#### 10.5. Incompatible materials

Alkali and alkaline earth metals. Powdered metals. Powdered metallic salts.

#### **Hazardous decomposition products**

May include, and are not limited to: oxides of carbon, hydrofluoric acid, carbonyl fluoride.

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Not classified

Dust Off Compressed Gas Duster	
LD50 oral rat	1500 mg/kg
LD50 dermal rabbit	No data available
LC50 inhalation rat	64000 ppm
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. May cause drowsiness, dizziness and central nervous system depression.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause frostbite on contact with the liquid.
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. May cause frostbite on contact with the liquid.
Symptoms/injuries after ingestion	: Not a normal route of exposure.

#### **SECTION 12: Ecological information**

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Ecology - general : May cause long-term adverse effects in the aquatic environment.

#### Persistence and degradability 12.2.

Dust Off Compressed Gas Duster	
Persistence and degradability	Not established.

#### 12.3. **Bioaccumulative potential**

Dust Off Compressed Gas Duster	
Bioaccumulative potential	Not established.

#### **Mobility in soil**

No additional information available.

#### 12.5. Other adverse effects

: No known ecological damage caused by this product. Effect on the global warming

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#### Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

#### **SECTION 13: Disposal considerations**

#### 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.

Container under pressure. Do not drill or burn even after use.

Additional information : Flammable vapors may accumulate in the container.

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT

UN-No. (DOT) : UN1030

Proper Shipping Name (DOT) : 1,1-Difluoroethane

Transport hazard class(es) (DOT) 2.1

Hazard labels (DOT)



: Falcon Safety Products has been granted a DOT special permit. A copy of DOT Special Permit Packaging Exceptions

SP-11516 can be obtained by calling Falcon Safety Products, Inc. at 908-707-4900.

#### **Transportation of Dangerous Goods (TDG)**

In accordance with TDG

UN-No.(TDG) : UN1030

Proper Shipping Name (TDG) : 1,1-Difluoroethane

Class (TDG) : 2.1

Hazard labels (TDG)



Packaging Exceptions TDG Canada: Falcon Safety Products has been granted Equivalency Certificate SU 9211 (ren.

1) by the TCSS, TDGD to offer for transport by road, rail and marine.

Transport by sea

UN-No. (IMDG) : UN1030

Proper Shipping Name (IMDG) : 1,1-DIFLUOROETHANE (REFRIGERANT GAS R 152a)

Class (IMDG) : 2.1

Air transport

UN-No. (IATA) : UN1030

Proper Shipping Name (IATA) : 1,1-Difluoroethane

Class (IATA) : 2.1

**Additional information** 

Other information : No supplementary information available.

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

EN (English US)

#### **SECTION 15: Regulatory information**

### 15.1. 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

#### 1,1-Difluoroethane (75-37-6)

Listed on the Canadian DSL (Domestic Sustances List)

#### 15.2. US State regulations

5/15/2018

Dust Off	Compressed	I Gas Duste
----------	------------	-------------

This product does not contain a chemical known to the State of California to cause cancer, State or local regulations

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Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Dust Off Compressed Gas Duster	
	birth defects or other reproductive harm.

#### **SECTION 16: Other information**

Date of issue : 10/15/2015 : 5/15/2018 Revision date Other information : None.

#### **Mexico Classification:**



Blue = Health Red = Flammability Yellow = Reactivity White = Special

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

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.

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## SAFETY DATA SHEET

**Section 1. Identification** 

Product name : Expo White Board Cleaner

Material uses : Cleaning solutions.

Manufacturer : Newell Rubbermaid

3500 Lacey Road, 10th Floor Downers Grove, IL 60515

USA

800-323-0749 or 630-829-2500

Emergency telephone number (with hours of operation)

: CHEMTREC (U.S. and Canada) 1-800-424-9300

### Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available

for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : Not applicable

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

General : Read label before use. If medical advice is needed, have product container or label at

hand.

**Prevention**: Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

2 Top Court

classified

Hazards not otherwise

: None known.

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
3-butoxypropan-2-ol	2 - 5	5131-66-8

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.

Occupational exposure limits, if available, are listed in Section 8.

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## Section 3. Composition/information on ingredients

### 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. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

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

### Potential acute health effects

Eye contact
 Inhalation
 No known significant effects or critical hazards.
 Skin contact
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### **Over-exposure signs/symptoms**

Eye contact: No specific data.Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical 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.

#### 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

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon dioxide

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.

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, 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. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders: If specialised 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 nonemergency 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 containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. 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. 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. 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** 

Advice on general occupational hygiene : 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. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

**Appropriate engineering** controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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 measures**

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### Section 8. Exposure controls/personal protection

#### **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: safety glasses with sideshields.

#### **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.

**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.

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** 

: 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.

## Section 9. Physical and chemical properties

#### <u>Appearance</u>

**Physical state** : Liquid. Color Clear.

Odor : Not available. : Not available. **Odor threshold** pН : Not available. **Melting point** : Not available. : Not available. **Boiling point** : Not available. Flash point : Not applicable. **Burning time** : Not applicable. **Burning rate** 

Flammability (solid, gas) Lower and upper explosive

: Not available. : Not available.

Not available.

: Not available.

(flammable) limits

**Evaporation rate** 

: Not available. Vapor pressure Vapor density Not available. Relative density : Not available. **Solubility** Not available. Solubility in water : Not available. Partition coefficient: n-: Not available.

octanol/water

**Viscosity** 

Not available. **Auto-ignition temperature Decomposition temperature** : Not available. **SADT** : Not available.

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Expo White Board Cleaner

### 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 : No specific data.

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
3-butoxypropan-2-ol	LD50 Dermal	Rabbit	3100 mg/kg	-

#### **Irritation/Corrosion**

No known significant effects or critical hazards.

#### **Sensitization**

No known significant effects or critical hazards.

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Carcinogenicity**

No known significant effects or critical hazards.

#### Reproductive toxicity

No known significant effects or critical hazards.

### **Teratogenicity**

No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

No known significant effects or critical hazards.

#### Specific target organ toxicity (repeated exposure)

No known significant effects or critical hazards.

#### **Aspiration hazard**

No known significant effects or critical hazards.

Information on the likely routes of exposure

: Not available.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

**Potential immediate** 

,

: Not available.

effects

Potential delayed effects : Not available.

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Expo White Board Cleaner

## **Section 11. Toxicological information**

#### **Long term exposure**

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

#### Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Route	ATE value
Dermal	63798.6 mg/kg

## Section 12. Ecological information

#### **Toxicity**

No known significant effects or critical hazards.

#### Persistence and degradability

No known significant effects or critical hazards.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
3-butoxypropan-2-ol	1.2	-	low

#### 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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## **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### Section 15. Regulatory information

**U.S. Federal regulations** : United States inventory (TSCA 8b): All components are listed or exempted.

**SARA 311/312** 

Classification : Not applicable. **Composition/information on ingredients** 

Name	%	hazard	Sudden release of pressure		(acute)	Delayed (chronic) health hazard
3-butoxypropan-2-ol	2 - 5	Yes.	No.	No.	Yes.	No.

#### California Prop. 65

This product does not contain Chemicals known to State of California to cause cancer, birth defects, or reproductive harm.

#### Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada).

**Canadian lists** 

**Canadian NPRI** : The following components are listed: Propylene glycol butyl ether

**CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

### Section 16. Other information

**History** 

: 8/5/2015 Date of issue/Date of

revision

Date of previous issue : No previous validation

Version

**Prepared by** : Product Safety.

Date of issue/Date of revision : 8/5/2015 Date of previous issue : No previous validation Version: 1 Expo White Board Cleaner

## **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 IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

UN = United Nations

▼ Indicates information that has changed from previously issued version.

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Date of issue/Date of revision : 8/5/2015 Date of previous issue : No previous validation Version : 1 8/8



The Procter & Gamble Company P&G Household Care Fabric & Home Care Innovation Center 5299 Spring Grove Avenue Cincinnati, OH 45217-1087

## MATERIAL SAFETY DATA SHEET

Issue Date: Mar 2014

#### **SECTION I - PRODUCT IDENTIFICATION**

Identity: AEROSOL AIR REFRESHER Finished Product

Brands: FEBREZE AIR EFFECTS (all scents, including seasonal scents)

P&G Telephone Number: 1-800-308-EASY (1-800-308-3279) or call Local Poison Control Center or your

physician.

Emergency (24 hour) Telephone Number: CHEMTREC 1-800-424-9300 – in the U.S. and Canada

1-703-527-3887 - for calls originating elsewhere

#### SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: None

Eye Contact: Mild eye irritant

Skin: None Inhalation: None

### Signs and Symptoms of Exposure:

Ingestion: Possible mild gastrointestinal irritation with nausea, vomiting, and/or diarrhea.

Eye Contact: Do not spray toward face. If eye contact occurs, rinse well with water.

Skin Contact: Prolonged skin contact or instillation into the eye may result in transient, superficial effects similar to those produced by mild toilet soap.

Inhalation: Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. Inhalation of high concentrations of ethanol vapor may cause irritation of the eyes and respiratory tract, drowsiness and fatigue.

Medical Conditions Generally Known to be Aggravated by Exposure: None

**Potential Environmental Effects:** (See Section 12 for more information)

#### SECTION III - COMPOSITION AND INGREDIENTS

<u>Ingredients/Chemical Name:</u> Water, alcohol, odor eliminator derived from corn, fragrance, non-flammable natural propellant, quality control ingredients. Contents under pressure with nitrogen.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Composition	LD50/LC50
Ethanol	Alcohol	64-17-5	<u>Range</u> 3-7%	7.06 g/kg rat, oral

Febreze Air Effects Page 1 of 6

#### SECTION IV - FIRST AID INFORMATION

#### First Aid Procedures:

Ingestion: Dilute with fluids and treat symptomatically.

Eye Contact: Rinse well with water for at least 15 minutes.

Skin Contact: Rinse with water. Inhalation: Remove to fresh air. **Note to Physician:** (if applicable)

**Other**: Consumer product package has the following precautionary statement:

**US Product Package:** 

FRONT PANEL: CAUTION: CONTENTS UNDER PRESSURE. Read back panel carefully.

BACK PANEL: **CAUTION:** Intentional misuse by deliberately concentrating and inhaling pressurized product may be harmful or fatal. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water. If irritation persists, get medical attention. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture of incinerate container.

#### **Canadian Product Package:**

FRONT PANEL: CAUTION: CONTENTS UNDER PRESSURE.

BACK PANEL: **CAUTION:** CONTAINER MAY EXPLODE IF HEATED. Do not puncture. Do not burn. Store away from heat. Some hard surfaces may become damp when sprayed. Avoid slips or falls. **KEEP OUT OF REACH OF CHILDREN.** Do not spray towards face. If eye contact occurs, rinse well with water.

#### **SECTION V - FIRE FIGHTING INFORMATION**

**Flash Point** (**Method Used**): 125-140°F (cc)/51.66-60°C Althought this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual of Tests and Criteria to classify as Aerosols 2.2.

Flammable Properties: Mixture and propellant are not flammable.

Upper Flammable Limit: N/A Lower Flammable Limit: N/A

**Explosive Limits:** UEL: N/A LEL: N/A

**Auto-ignition Temperature: N/K** 

**Hazardous Combustion Products: N/K** 

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

**Extinguishing Media:** 

Suitable: CO<sub>2</sub>, water or dry chemical may be used.

Unsuitable: N/K

### **Protection of Firefighters:**

Specific Hazards Arising from the Material: N/K

Protective Equipment and Precautions for Firefighters: Normal fire-fighting gear.

Febreze Air Effects Page 2 of 6

#### SECTION VI - ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** None

**Environmental Precautions:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some US states because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

**Methods for Containment:** Use water spray to dilute and/or wash away spills to avoid exposure and to protect persons working to stop/repair leak. Any spills are to be prevented from entering waterways. Sorbents may be used.

**Methods for Cleanup:** For individual cans, expel liquid, collect, incinerate, puncture container and send as scrap metal for recycling.

Other Information: (if applicable): N/A

#### SECTION VII - HANDLING AND STORAGE

#### **Precautions For Safe Handling**

**For Household Setting:** Keep out of reach of children. Do not expose to heat or open flame or store at room temperatures above 120F. Dispose properly. Do not puncture or incinerate container.

**For Non – Household Setting:** Avoid puncturing or otherwise damaging aerosol containers and packaging when using forklifts or other material handling equipment.

**Conditions for Safe Storage:** Do not expose to heat or flame.

**For Household Setting:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F.

**For Non-Household Use:** Pressurized container. Store at room temperature. Do not expose to temperatures above 43°C / 110°F. Store in accordance with local requirements for NFPA Aerosol Level 1 products.

#### SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines:**

Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm OSHA Z-1 PEL 1000 ppm

**Engineering Controls: N/A** 

**Personal Protective Equipment (PPE):** 

Eye/Face Protection: None required for normal consumer use.

*Industrial setting*: If a splash of solution is likely, chemical goggles may be needed.

Skin Protection: None required for normal consumer use.

*Industrial setting*: Minimize skin contact with protective gloves (rubber or neoprene).

Respiratory Protection: None required with normal consumer use.

*Industrial setting*: Use ventilation to minimize exposure to vapor or mist (ethanol).

Febreze Air Effects Page 3 of 6

#### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (color, physical form, shape):** Clear **Flash Point (Method Used)**: 125-140°F (cc)/ 51.66-60°C.

liquid. Althought this product h

Althought this product has a flashpoint below 200°F (closed cup), it is an aqueous solution (>50% water) that does **not** 

sustain combustion.

Aerosol was tested per the appropriate tests in the UN Manual

of Tests and Criteria to classify as Aerosols 2.2.

Odor: Perfume Solubility in Water: Soluble

Vapor Density (Air=1): N/A Melting/Freezing Point: N/A Boiling Point: 212°F / ~100°C Reserve Alkalinity: N/A

Partition Coefficient (n-octanol/water): N/A pH (neat): 4.0-5.0

pH (neat): 7.0 (Pet Odor Eliminator, Pure Refreshment and

Clean Citrus)

Volatile Organic Compound (VOC): Product complies with State and Federal regulations for VOC content.

#### **SECTION X - STABILITY AND REACTIVITY**

**Chemical Stability:** Stable.

Conditions to Avoid: Avoid extreme heat.

Incompatible Materials: N/K

**Hazardous Decomposition Products: N/K** 

Possibility of Hazardous Reactions: N/K

#### SECTION XI - TOXICOLOGICAL INFORMATION

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

LD50 (rats oral) – estimated >5000 mg/kg

**Chronic Effects:** No chronic health effects reported.

Target Organs: No target organs reported.

**Carcinogenicity:** This finished consumer product is not carcinogenic.

NTP: No IARC: No

#### **SECTION XII - ECOLOGICAL INFORMATION**

This product is intended for dispersive use. The ingredients do not pose a significant hazard to aquatic organisms and will not cause any long-term adverse effects in the environment at environmentally relevant concentrations. The container is compatible with municipal solid waste systems and will not pose a hazard to the environment when properly handled.

Febreze Air Effects Page 4 of 6

#### SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations. Aerosol cans, when disposed as waste, are regulated as D003 reactive hazardous waste in some States because of their potential to explode when heated. Check with your State/provincial environmental agency for guidance. Do not landfill liquid. Incinerate all expelled liquid.

*Non-Household Setting (federal)*: For individual bottles, expel liquid, collect and incinerate. Puncture container and send as scrap metal for recycling.

Non-Household Setting (California): Hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

Household Use: Consumer may discard empty container in trash, or recycle where facilities exist.

#### **SECTION XIV - TRANSPORT INFORMATION**

**Transportation Information** – Products covered by this MSDS, in their original form, are regulated for transportation.

For finished packaged product transported by ground (US DOT): Consumer Commodity ORM-D.

For finished packaged product transported by sea (IMDG): UN1950, Aerosols, 2.2

For finished packaged product transported by air (IATA): ID8000 Consumer Commodity, 9

#### **SECTION XV - REGULATORY INFORMATION**

#### **UNITED STATES - FEDERAL**

All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA chemicals: This product contains the following SARA 313/302/304/311/312 chemicals: NONE

#### **STATES:**

This product is not subject to warning labeling under California Proposition 65.

#### State Right-to-Know and CERCLA:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

			States					
Ingredient	CAS#	Level	IL	MA	NJ	PA	RI	CERCLA RQ
Ethanol	64-17-5	3-7%	X	X	X	X	X	100 lbs

#### Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

Febreze Air Effects Page 5 of 6

#### SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating: Health: 1 4=EXTREME

Flammability: 1 3=HIGH

Reactivity: 0 2=MODERATE

1=SLIGHT

0=NOT SIGNIFICANT

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER**: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

Febreze Air Effects Page 6 of 6



## **SAFETY DATA SHEET**

Issuing Date November 9, 2015 Revision Date August 8, 2017 Revision Number 1

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

**Product identifier** 

Product Name Formula 409® Multi-Surface Cleaner

Other means of identification

**EPA Registration Number** 5813-73

Recommended use of the chemical and restrictions on use

Recommended Use Multi-purpose spray cleaner and disinfectant

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address The Clorox Company 1221 Broadway Oakland, CA 94612

Phone: 1-510-271-7000

**Emergency telephone number** 

**Emergency Phone Numbers** For Medical Emergencies call: 1-800-446-1014

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

#### 2. HAZARDS IDENTIFICATION

#### Classification

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

Skin corrosion/irritation Category 3

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

Signal word Warning

**Hazard statements** 

Causes mild skin irritation

No pictogram required.

Appearance Clear Physical State Thin liquid Odor Floral, citrus

**Precautionary Statements - Prevention** 

None

<u>Precautionary Statements - Response</u>

If skin irritation occurs: Get medical advice.

<u>Precautionary Statements - Storage</u>

None

**Precautionary Statements - Disposal** 

None

**Hazards not otherwise classified (HNOC)** 

Not applicable

**Unknown Toxicity** 

0.2% 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** 

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Lauramine oxide	1643-20-5	0.5 - 1.5	*
n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	68424-85-1	0.2 - 0.4	*

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

#### 4. FIRST AID MEASURES

First aid measures

**General Advice** Show this safety data sheet to the doctor in attendance.

Eye Contact Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

**Skin Contact**Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

**Inhalation** Move to fresh air. If breathing is affected, call a doctor.

**Ingestion**Call a poison control center or doctor immediately for treatment advice. Have person sip a

glassful of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison

control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects Mild irritation of eyes and skin.

Indication of any immediate medical attention and special treatment needed

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 and skin.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions** 

**Environmental Precautions** See Section 12 for additional ecological Information

Methods and material for containment 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

eyes, skin, 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 None known.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lauramine oxide 1643-20-5	None	None	None
n-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride 68424-85-1	None	None	None

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, such as personal protective equipment

**Eye/Face Protection** If splashes are likely to occur, wear safety glasses with side-shields. None required for

consumer use.

**Skin and Body Protection** No special protective equipment required.

Respiratory Protection If 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** Thin liquid Clear Odor **Appearance** Floral, citrus

Color Clear **Odor Threshold** No information available

**Values** Remarks/ Method **Property** 9 - 11.5None known

рH Melting/freezing point No data available None known **Boiling Point/Range** No data available None known **Flash Point** No data available None known **Evaporation rate** No data available None known

Flammability (solid, gas) No data available

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 Vapor density No data available

**Specific Gravity** ~1.0

**Water Solubility** Soluble in water. Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available No data available Autoignition temperature **Decomposition temperature** No data available Kinematic viscosity No data available No data available Dynamic viscosity

**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

None known None known

None known

None known

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### **Chemical stability**

Stable under recommended storage conditions.

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

None under normal processing.

#### **Conditions to avoid**

None known.

#### **Incompatible materials**

None known.

#### **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 irritation, nausea,

vomiting, and diarrhea.

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes and skin redness.

### 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** Contains no ingredient listed as a carcinogen.

Reproductive Toxicity

No information available

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

Chronic Toxicity No known effect.

Target Organ Effects 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 Not applicable.

#### 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 Not regulated

ICAO Not regulated

<u>IATA</u> Not regulated

IMDG/IMO Not regulated

#### 15. REGULATORY INFORMATION

#### **Chemical Inventories**

TSCA All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from

listing.

**DSL/NDSL** 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 HazardYesChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

#### **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).

#### **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.

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency 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 and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION:** Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Avoid contact with foods.

#### **U.S. 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
Ethanolamine 141-43-5	Х	Х	Х	-	Х

#### **International Regulations**

Canada WHMIS Hazard Class D2B Toxic Materials



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

NFPA Health Hazard 1 Flammability 0 Instability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 1 Flammability 0 Physical Hazard 0 Personal Protection B

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110 1-800-572-6501

Preparation Date November 9, 2015

Revision Date August 8, 2017

**Revision Note** Removal of dye.

Reference XXXXXXX/166962.001

#### **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** 

Item Number: 028 Page 04/23/2008 of 6

# **Material Safety Data Sheet**

314-427-1000

1-800-424-9300

In Case of Spill Emergency Contact:

Chemtrec:



#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Vi-Jon Incorporated 8515 Page Avenue Saint Louis, MO 63114

Product Name: Germ-X Hand Sanitizer

**Product Code: 028** 

Product Use: Hand Sanitizer Issue Date: 04/23/2008 Supersedes Date: July 2007

#### **Section 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Keep out of reach of children. Appearance/Odor: Clear gel with alcohol/citrus odor.

#### WARNING:

Flammable (ethyl alcohol and isopropyl alcohol)

Target (ethyl alcohol and isopropyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Potential Health Effects: See Section 11 for more information.

#### **Symptoms of Exposure:**

Inhalation: May cause irritation of the respiratory tract. Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: None expected.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material contains component s that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

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

Component	CAS#	% by Wt.
Ethyl Alcohol	64-17-5	59%
Isopropyl Alcohol	67-64-0	3%

#### **Section 4: FIRST AID MEASURES**

#### Emergency first aid procedures by route of exposure:

**Inhalation:** If symptoms are experience, remove source of contamination or move victim to

fresh air. If affected person is not breathing, apply artificial respiration. If

breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or

advice.

Skin: If irritation is experienced, flush with water. If irritation persists, get medical

attention.

Eyes: Immediately flush eyes with water for at least 15 minutes while holding eyelids

open. If symptoms persist, get medical attention.

#### **Section 5: FIRE FIGHTING MEASURES**

Flash Point: 71°F (21.6°C) Method Used: ASTM D-93

Lower Flammable Limit: 3.3 (Volume % in air) Upper Flammable Limit: 19.0 (Volume % in air)

Auto Ignition: (Ethyl Alcohol) 363°C

Flammability Classification: Flammable Liquid IB

**Extinguishing Media**: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

**Products of Combustion:** Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

**Fire Fighting Equipment/Instructions:** Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health:2 Fire: 3 Reactivity:0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

#### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions**: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

**Environmental Precautions**: Prevent discharge to open waters.

**Method for Containment:** Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

**Methods for Clean-Up**: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

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#### **Section 7: HANDLING AND STORAGE**

**Handling:** Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid

inhalation.

**Storage:** Keep the container tightly closed and in a cool, well ventilated place.

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

#### **Exposure Guidelines**

Ethyl Alcohol (64-17-5)

ACGIH: 1,000 ppm TWA

OSHA: 1,000 ppm TWA; 1,900 mg/m3 TWA

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA

OSHA: 400 ppm TWA; 980 mg/m3 TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

#### Personal Protective Equipment (PPE)

**Eye/Face Protection**: None needed under normal use. **Skin Protection**: None needed under normal use. **Respiratory Protection**: None needed under normal use.

General Hygiene Considerations: None needed under normal use.

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

Appearance/Color: Clear Translucent

Odor: Alcohol/Citrus Physical State: Gel pH: Not Available.

Vapor Density: (Ethyl Alcohol) 1.6 Boiling Point: (Ethyl Alcohol) 78.5°C

Vapor Pressure: (Ethyl Alcohol) 57.3 hPa at 20°C

Melting Point: (Ethyl Alcohol) -114.1°C

Freezing Point: Not Available Flash Point (see section 5)

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: 0.88-0.92 Evaporation Rate: Not Available

Octanol/Water partition coefficient (Kow): (Ethyl Alcohol): - 0.32

Auto-ignition temperature: (Ethyl Alcohol) 363°C Decomposition temperature: Not Available

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#### **Section 10: STABILITY AND REACTIVITY**

**Stability**: Stable under normal ambient temperatures 70°C (21°C)

**Condition to Avoid**: Avoid excessive heat or sources of ignition.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing

agents.

**Hazardous Decomposition**: upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: Hazardous polymerization will not occur.

#### **Section 11: TOXICOLOGY INFORMATION**

#### **ACUTE EFFECTS:**

#### A: General Product information

Product contains ethyl alcohol and isopropyl alcohol.

#### **B: Component Analysis LD50**

Ethyl Alcohol (64-17-5) Oral LD50 Rat: 7060 mg/kg

Isopropyl Alcohol (67-63-0)

Inhalation LC50 Rat: 72.6 mg/L/4H Oral LD50 Rat: 4396 mg/kg Dermal LD50 Rat: 12800 mg/kg Dermal LD50 Rabbit: 12870 mg/kg

#### **CHRONIC EFFECTS:**

#### Component

Ethyl Alcohol (64-17-5)

**Carcinogenicity**: ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains ethyl alcohol, a central nervous system target.

**Mutagenicity**: No information available for product. **Reproductive**: No information available for product.

Developmental: Ethyl alcohol is a developmental toxin when consumed during

pregnancy.

Target Organs: When consumed, ethyl alcohol can target the

respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Isopropyl Alcohol (67-63-0)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

**Neurotoxicity:** This product contains isopropyl alcohol, a central nervous system target.

**Mutagenicity**: No information available for product. **Reproductive**: No information available for product. **Developmental**: No information available for product.

Target Organs: skin, eyes, CNS, Kidney, Developmental and respiratory system.

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#### **Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity: Ethyl Alcohol (64-17-5)

96 hour LC50 Oncorhynchus mykiss: 12,900 mg/L (flow-through) (30days old)

96 hour LC50 Pimephales promelas 14.2 mg/L

5 min EC50 Photobacterium phosphoreum: 35,470 mg/L 30 min EC50 Photobacterium phosphoreum: 34,634 mg/L

48 hour EC50 Daphnia magna: 9,268 mg/L 24 hour EC50 Daphnia magna: 10,800 mg/L

Ecotoxicity: Isopropyl Alcohol (67-63-0)

96 Hr EC50 Scenedesmus Subspicatus: >1000 mg/L

72 Hr EC50 Scenedesmus subspicatus:>1000 mg/L

96 Hr LC50 Pimephales promelas: 9640 mg/L [flow through]

96 Hr LC50 Pimephales promelas: 94900 mg/L [flow through] (29 days old) 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow through] (31 days old)

5 min EC50 Photobacterium phosphoreum: 35390 mg/L

48 Hr EC50 Daphnia magna: 13299 mg/L

#### Section 13: DISPOSAL CONSIDERATIONS

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

#### **Section 14: TRANSPORTATION INFORMATION**

Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Ethyl Alcohol Solutions, 3, UN1170, PGIII.

IMDG: UN1170, Ethanol Solutions (Ethyl Alcohol Solution), Class 3, PG II (21.6C cc) EmS # F-E S-D, Limited Quantity

#### **Section 15: REGULATORY INFORMATION**

Ethyl alcohol and isopropyl alcohol, components of this product, are on the TSCA inventory.

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This material contains ethyl alcohol a developmental toxicity when in alcoholic beverages.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Isopropyl Alcohol	67-63-0	YES	YES	YES	YES	YES
Ethyl alcohol	64-17-5	YES	YES	YES	YES	YES

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#### **Section 16: Other Information**

Prepared by: Vi-Jon Inc.

#### Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 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 as of this date hereof.

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This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

S.C. Johnson Wax 4=Very High HAZARD RATING Racine, Wisconsin 53403-5011 HMIS NFPA 3=High Phone: (414) 631-2777 2=Moderate 0 Health Emergency Phone: (800) 228-5635 4 Flammability 1=Slight Extension 092 0=Insignificant 0 Reactivity International Emergency Phone: Extension 092 MATERIAL SAFETY DATA SHEET SECTION I-PRODUCT IDENTIFICATION PRODUCT NAME: PRODUCT CODE: GLADE AIR FRESHENER - ALL FRAGRANCES 10545-1 DATE ISSUED SUPERSEDES. MSDS SECTIONS WITH CHANGES: 02/05/92 10/30/87 CHEMICAL OR COMMON NAME: PREPARED BY: NA Terry A. Meyers Chemical Info. Adm. SECTION II-INGREDIENT INFORMATION WEIGHT % INGREDIENTS EXPOSURE LIMIT ISOBUTANE PROPANE 1000PPM (OSHA PEL) (CAS#  $25 \cdot 35$ 75-28-5,74-98-6) (PROPANE) WATER 65-75 SECTION III-PHYSICAL DATA DISPENSED AS A SPRAY MIST SPECIFIC GRAVITY (H20-1) APPEARANCE/ODOR -WITH FRAGRANT ODOR VAFOR PRESSURE (mm Hg): ND PERCENT VOLATILE BY VOLUME (%): SCLUBILITY N WATER Appreciable VAPOR DENSITY (Air=1): ND FREEZING FOINT (\*F) ND BOILING POINT 19FT

SECTION IV-FIRE AND EXPLOSION INFORMATION

PLANMABLE LIMITS: ND

EXTINCUISHING MEDIA: FOam. CO2. Dry Chemical. Water Fog.

SPECIAL FIREFIGHTING PROCEDURES Normal fire fighting procedures may be used. Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers.

LINUSUAL PIRE AND EXPLOSION HAZARDS No special hazards known.

SECTION V-HEALTH HAZARD DATA

EVAPORATION RATE (Butyl Acctate-1):

THEORETICAL VOC (15/gal):

ND

VOC (as packaged, minus H20);

ND

SECTION V-HEALTH HAZARD DATA

SIGNS AND SYMPTOMS: NA

FIRST AID PROCEDURES: NA

VEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE

NA

MATERIAL SAFETY DATA SHEET	Page 2
S.C. Johnson Wax GLADE AIR FRESHENER -	ALL FRAGRANCES
1525 Howe Street Product Number: 1054	5
Racine, Wisconsin 53403 Serial Number: 1	
SECTION VI-REACTIVITY DATA	
STABILITY Stable	
STABILITY-CONDITIONS TO AVOID: None known	
INCOMPATIBILITY. None known	
AZARDOUS DECOMPOSITION PRODUCTS: When exposed to fire, produces norm combustion.	al products of
HAZARDOUS POLYMERIZATION: WIII NOT OCCUT.	
HAZARDOUS POLYMERIZATION-CONDITIONS TO AVOID NONE KNOWN	
SECTION VII-SPILL OR LEAK PROCEDURES	
ETERS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ign Rinse affected area thoroughly with water.	
MASTE DISPOSAL INFORMATION: Recycle empty aerosol can to nearest st center. Use up package or give to someone who can.	eel recycling
SECTION VIII-SPECIAL PROTECTION INFORMATION	
RESPIRATORY PROTECTION: No special requirements under normal use c	onditions.
ENTILATION: General room ventilation adequate.	
PROTECTIVE GLOVES: No special requirements under normal use cond	itions.
EVE PROTECTION: No special requirements under normal use conditi	ons.
OTHER PROTECTIVE MEASURES: NSR	
SECTION IX-SPECIAL PRECAUTIONS	
PRECAUTIONARY LABELING: CAUTION: CONTENTS UNDER PRESSURE. DO NOT S RADIATOR OR KEEP WHERE TERPERATURE WILL EXCEED 120 F AS CON BURST. DO NOT PUNCTURE OR THROW IN FIRE. KEEP OUT OF REACH	TAINER MAY İ
OTHER HANDLING AND STORAGE CONDITIONS Keep out of reach of children.	
pressurize, cut, heat, weld or expose container to flame; e	xplosion could
SECTION X-ADDITIONAL INFORMATION	
ADDITIONAL INFORMATION: FACTORY MUTUAL LEVEL I AFROSOL	i
SECTION XI-TRANSPORTATION INFORMATION	
OUT MASS:	·
OT	
SHIPPING NAME:	
DOT NOTES	

MATERIAL SAFETY DATA SHEET

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S.C. Johnson Wax 1525 Howe Street Racine, Wisconsin

53403

10545 Product Number:

Serial Number:

NA-Not Applicable, NE-Not Established, NSR-No Special Requirement, ND-Not Determined The information herein is given in good faith. No warranty expressed or implied is made. Any use of these data and information must be determined by the user to be a accordance with applicable Federa., State, and local laws and regulations. The information contained in this form is confidential and is submitted so ely for your organization's internal use.



Section 1. Chemical Product and Company Identification

Product Name/Trade Name Glass Cleaner Ref# 40000263

Manufacturer: KIK CUSTOM PRODUCTS

2921 Corder Street Houston, TX USA 77054

 Contact Number:
 Tel: 905-660-0444

 24 Hour Emergency Contact:
 Tel: 1-800-255-3924

Prepared By:

KIK CUSTOM PRODUCTS

Date Last Revised:October 7, 2014Replaces Date:October 18, 2011

Section 2. Hazardous Ingredients

Name	%	CAS#	LD50/LC50	
Aqua Ammo	onia ≤1.0	7664-41-7	43 mg/kg (oral) /30,000 ppm (1hr)	

Section 3. Physical Data

State	Liquid	pН	10.5 – 12.5
Appearance	Blue	% Volatile	99.9 %
Odour	Ammonia	<b>Boiling Point</b>	N Av.
Specific Gravity	1.000-1.010	Vapour Pressure	N Av.
Solubility	100% in water	Freezing Point	Approx. 0°C

Section 4. Fire & Explosion

Section 1. Tite & Expression
Flammable: YES NO X
Means of Extinction: As per surrounding fire
Special Procedures: As per surrounding fire.
Flash Point: & Method: > 200°F TCC
Hazardous Combustion Products: N. Av.

Section 5. Reactivity Data

Chemical Stability:	YES	X NO	
Conditions: N App.			
Incompatibility:	YES	NO X	
What Substances:			
Reactivity / Condition	ns: None	reactive	
Hazardous Decomposition Products: N Av.			



## Section 6. Toxicological Properties

#### **Route of Entry**

Skin Contact	X	Skin Absorption	Eye Contact	X
Inhalation Acute	X	Inhalation Chronic	Ingestion	X

**Effects of Acute Exposure**: Inhalation of vapours will irritate breathing passages. Contact with eyes may cause mild irritation. Ingestion may cause very mild sensation in mouth, throat and stomach.

Effects of chronic exposure: Prolonged and repeated exposure to skin will cause irritation, drying and

Carcinogenicity, Reproductive Effects, Teratogenicity, Mutagenicity: No known effects

#### Section 7. Preventative Measures

#### **Protective Equipment**

Gloves: Recommended for prolonged exposure. Eyes: Not normally required

Respiratory: Not normally required. Footwear: Not Applicable

Leak & Spill Procedure: Rinse with water mop up dispose of in accordance with local,

state/provincial and federal regulations

#### Section 8. First Aid Measures

**Skin:** Wash with soap and water

**Eyes:** Flush eyes with cool running water holding eyelids apart to ensure thorough rinsing for 15 minutes. Remove contact lenses.

**Inhalation:** Move to fresh air and restore breathing, if required.

**Ingestion:** DO NOT INDUCE VOMITING! Drink large amounts of water. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately.

**General Advice:** If irritation occurs, see a doctor immediately.

#### Section 9. Regulatory Information

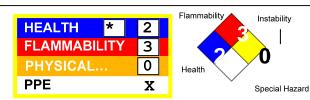
TRANSPORTATION: Not Restricted WHIMIS Controlled Product: No

Health 1 Flammability 0 Reactivity 0

As the handling and use of products under user's conditions are beyond our control, no warranty, expressed or implied, is made concerning this product. The information contained herein is offered only as a guide to the handling of this specific material and is not intended to be all-inclusive in the manner and conditions of use and handling. The user assumes all risks of use or handling, whether or not in accordance with any directions or suggestions of the manufacturer. Manufacturer shall not be liable to purchaser or any other person for loss or damages directly or indirectly arising from the use of our product.







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Revision: 06/28/2011
Supercedes Revision: 04/16/2010

## 1. Product and Company Identification

Product Code: 2410.2

**Product Name:** Goof Off Cleaner VOC Compliant

**Manufacturer Information** 

Company Name: W. M. Barr

2105 Channel Avenue Memphis, TN 38113

**Phone Number:** (901)775-0100

**Emergency Contact:** 3E 24 Hour Emergency Contact (800)451-8346 **Information:** W.M. Barr Customer Service (800)398-3892

Web site address: www.wmbarr.com

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Intended Use: Mult-Purpose Remover for grease, tar, ink, paint, adhesive, etc.

Product Category: General Purpose Adhesive Remover

**Synonyms** 

FG612, FG653BBLK, FG654, FG654B, FG656, FG656TEMP, FG657, FG657TEMP, FG683, FG690,

FG750

	2. Composition/Information on Ingredients						
Hazardo	ous Components (Chemical Name)	CAS#	Concentration	OSHA PEL	ACGIH TWA	Other Limits	
1. Acet	one {2-Propanone}	67-64-1	60.0 -100.0 %	1000 ppm	500 ppm	No data.	
2. Xyle -}	ne (mixed isomers) {Benzene, dimethyl	1330-20-7	10.0 -30.0 %	100 ppm	100 ppm	No data.	
3. Ethy	lbenzene {Ethylbenzol; Phenylethane}	100-41-4	<=4.0 %	100 ppm	100 ppm	No data.	
4. Meth	nyl ethyl ketone {MEK; 2-Butanone}	78-93-3	1.0 -5.0 %	200 ppm	200 ppm	No data.	
1	ethyl-2-butanone {Methyl isopropyl ne; 3-Methylbutan-2-one}	563-80-4	<=1.0 %	No data.	200 ppm	No data.	
Hazardo	ous Components (Chemical Name)	RTECS#	OSHA STEL	OSHA CEIL	ACGIH STEL	<b>ACGIH CEIL</b>	
1. Acet	one {2-Propanone}	AL3150000	No data.	No data.	750 ppm	No data.	
2. Xyle -}	ne (mixed isomers) {Benzene, dimethyl	ZE2100000	No data.	No data.	150 ppm	No data.	
3. Ethy	lbenzene {Ethylbenzol; Phenylethane}	DA0700000	No data.	No data.	125 ppm	No data.	
4. Meth	nyl ethyl ketone {MEK; 2-Butanone}	EL6475000	No data.	No data.	300 ppm	No data.	
1	ethyl-2-butanone {Methyl isopropyl ne; 3-Methylbutan-2-one}	EL9100000	No data.	No data.	No data.	No data.	

## 3. Hazards Identification

#### **Emergency Overview**

Danger! Extremely Flammable! Harmful or fatal if swallowed. Vapor harmful. Eye Irritant.

Keep away from heat, sparks, flame and all other sources of ignition. Vapors may cause flash fire or ignite explosively.

Use only with adequate ventilation to prevent buildup of vapors. If the work area is not well ventilated, do not use this product.

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#### **Potential Health Effects (Acute and Chronic)**

This product has not been tested as a whole to determine health effects. The health effects listed below are associated with the individual ingredients listed in Section 3.

#### **INHALATION:**

High vapor concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, loss of consciousness and even death). Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal.

#### EYES:

High vapor concentrations may cause irritation of the eyes. Causes eye irritation.

#### SKIN:

Prolonged or repeated contact may cause drying, cracking, or irritation.

#### **INGESTION:**

Harmful or fatal if swallowed. Pulmonary aspiration hazard. Ingestion may cause nausea, vomiting, diarrhea and inflammation of the lungs. Irritating to the throat, mouth, and stomach. May produce central nervous system effects, which include dizziness, loss of balance and coordination, unconsciousness, coma and even death.

#### CHRONIC OVEREXPOSURE EFFECTS:

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Intentional misuse by deliberately concentrating and inhaling solvents may be harmful or fatal. Overexposure may cause liver and kidney injury.

TARGET ORGANS: liver, kidneys, central nervous system

PRIMARY ROUTES OF ENTRY: inhalation, ingestion, absorption

#### Signs and Symptoms Of Exposure

See Potential Health Effects.

#### **Medical Conditions Generally Aggravated By Exposure**

The following diseases or disorders may be aggravated by exposure to this product: skin, eye, liver, kidney, nervous system, respiratory system

#### **OSHA Regulatory Status:**

This material is classified as hazardous under OSHA regulations.

#### 4. First Aid Measures

#### **Emergency and First Aid Procedures**

#### Skin:

Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

#### Eyes:

Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

#### Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

#### Ingestion:

If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

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#### **Note to Physician**

Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## 5. Fire Fighting Measures

Flammability Classification: NFPA Class IB

Flash Pt: -4.0 F (-20.0 C) Method Used: Setaflash Closed Cup (Rapid Setaflash)

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data available.

#### **Fire Fighting Instructions**

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

#### Flammable Properties and Hazards

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, sparks, flame, and other ignition sources distant from material handling point.

#### **Hazardous Combustion Products**

Carbon monoxide, carbon dioxide.

#### **Extinguishing Media**

Carbon dioxide, dry chemical, foam and/or water fog.

#### **Unsuitable Extinguishing Media**

None known.

#### 6. Accidental Release Measures

#### Steps To Be Taken In Case Material Is Released Or Spilled

Vapors may cause flash fire or ignite explosively.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

## 7. Handling and Storage

#### **Precautions To Be Taken in Handling**

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase

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dramatically.

#### **Precautions To Be Taken in Storing**

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

#### **Other Precautions**

Keep away from heat, sparks and open flame. No smoking.

## 8. Exposure Controls/Personal Protection

#### **Respiratory Equipment (Specify Type)**

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air

purifying respirator with organic vapor cartridge. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

#### **Eye Protection**

**VOC / Volume:** 

Chemical goggles, also wear a face shield if a splashing hazard exists.

#### **Protective Gloves**

Appropriate chemical resistant gloves should be worn, such as nitrile rubber. Wear gloves with as much resistance to the chemical ingredients as possible. Other glove materials may provide protection. Glove selection should be based on chemicals being used and conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

#### **Other Protective Clothing**

To prevent skin contact wear protective clothing covering all exposed areas.

Various application methods can dictate the use of additional protective safety equipment, such as impermeable aprons to minimize exposure.

#### **Engineering Controls (Ventilation etc.)**

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

#### Work/Hygienic/Maintenance Practices

Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. A source of clean water should be available in the work area for flushing of eyes and skin. Discard any clothing or other protective equipment that cannot be decontaminated.

## 9. Physical and Chemical Properties

[X] Liquid [ ] Solid **Physical States:** [ ] Gas **Melting Point:** No data. **Boiling Point:** 150 F (65.6 C) **Autoignition Pt:** No data. Flash Pt: -4.0 F (-20.0 C) Method Used: Setaflash Closed Cup (Rapid Setaflash) Specific Gravity (Water = 1): 0.797 - 0.8021**Density:** 6.65 LB/GL Vapor Pressure (vs. Air or mm No data. Vapor Density (vs. Air = 1): > 1 **Evaporation Rate:** > 1 **Solubility in Water:** Slight **Percent Volatile:** 100 % by weight.

20 % WT

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Viscosity: < 5 cps

**Appearance and Odor** 

Water white, free and clear.

**Additional Physical Information** 

VOC (g/L): 161 g/L max

10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability** 

No data available.

**Incompatibility - Materials To Avoid** 

Strong oxidizing agents.

**Hazardous Decomposition Or Byproducts** 

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Polymerization** 

No data available.

### 11. Toxicological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Acetone:

**ACUTE TOXICITY:** 

LC50, rat, inhalation, 8 hrs, 50,000 mg/m3

LD50, rabbit, skin, 20,000 mg/kg

LD50, rat, oral, 5.8 g/kg

SKIN CORROSION / IRRITATION: Moderately irritating to skin. Prolonged or repeated skin contact can result in defatting and drying of the skin which may result in irritation or dermatitis.

SERIOUS EYE DAMAGE / IRRITATION: May cause moderate to severe irritation. RESPIRATORY OR SKIN SENSITIZATION: Not a respiratory or skin sensitizer.

ASPIRATION HAZARD: Pulmonary aspiration hazard.

MUTAGENIC DATA: No data IMMUNOTOXICITY: No data

NEUROTOXICITY: Clinical studies and case reports suggest slight neurological effects, mostly of the subjective type, in individuals exposed to varying concentrations of acetone. In most studies the subjects report discomfort, irritation of the eyes and respiratory passages, mood swings, and nausea following exposure to acetone vapor at concentrations of 500 ppm or higher. The fact that the effects subside following termination of exposure indicates that acetone may be the active compound, rather than a metabolite. Case reports of accidental poisoning also indicate that the effects (e.g., lethargy and drowsiness) are short-lived. DEVELOPMENTAL/REPRODUCTIVE: Inhalation exposure to pregnant rats and mice did not cause statistically significant malformations in the offspring, but did result in lower fetal body weights in both species. Changes in testicular weight were observed in male rats following oral exposure and a premature menstrual period occurred in 3 of 4 women acutely exposed by inhalation. The significance of these endpoints of reproductive toxicity in men and women is unknown at this time.

CARCINOGEN STATUS: Not classifiable as to human carcinogenicity. Lack of data concerning carcinogenicity in humans or animals.

Methyl Ethyl Ketone:

**ACUTE TOXICITY:** 

LD50, rat, 2.7-5.6 g/kg

LC50 Rat inhalation >5000 ppm/6 hr

SKIN CORROSION / IRRITATION: Can cause mild to moderate skin irritation and dermatitis.

SERIOUS EYE DAMAGE / IRRITATION: Liquid and vapor can cause severe eye irritation.

RESPIRATORY OR SKIN SENSITIZATION: Not a sensitizer.

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ASPIRATION HAZARD: No data.

MUTAGENIC DATA: Does not show mutagenic potential in Ames test or in most in vitro tests.

IMMUNOTOXICITY: No data.

NEUROTOXICITY: Excessive exposure leads to depression of the CNS, shown by loss of coordination,

reflexes, and consciousness. Not neurotoxic.

DEVELOPMENTAL/REPRODUCTIVE: No evidence of birth defects CARCINOGEN STATUS: Not classifiable as to human carcinogenicity.

Xylene:

LD50 Rat oral 4.3 g/kg

LD50 Rat oral 10 mL/kg/Xylene/

LC50 Rat inhalation 6,350 ppm/4 hr

LD50 Rabbit dermal > 5 ml/kg (43 g/kg). /Mixed Xylenes

Ethylbenzene:

**ACUTE TOXICITY:** 

LD50 Rat oral 3,500 mg/kg

LD50 Rabbit skin 17,800 mg/kg

Ethylbenzene has low acute and chronic toxicity for both animals and humans.

SKIN CORROSION / IRRITATION: No data.

SERIOUS EYE DAMAGE / IRRITATION: It is an irritant of mucous membranes and the eyes.

RESPIRATORY OR SKIN SENSITIZATION: Not a sensitizer.

ASPIRATION HAZARD: No data

MUTAGENIC DATA: Not mutagenic or teratogenic.

IMMUNOTOXICITY: No data

NEUROTOXICITY: It is toxic to the central nervous system.

DEVELOPMENTAL/REPRODUCTIVE: No information available.

CARCINOGEN STATUS: IARC 2B - Possibly Carcinogenic to Humans; ACGIH A3 - Confirmed Animal

Carcinogen with Unknown Relevance to Humans

#### **Chronic Toxicological Effects**

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans.

#### Carcinogenicity/Other Information

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

ACGIH A4 - Not Classifiable as a Human Carcinogen

IARC 2B - Possibly Carcinogenic to Humans

Hazardous Components (Chemical Name)	CAS#	NTP	IARC	ACGIH	OSHA
1. Acetone {2-Propanone}	67-64-1	n.a.	n.a.	A4	n.a.
<ol> <li>Xylene (mixed isomers) {Benzene, dimethyl -}</li> </ol>	1330-20-7	n.a.	n.a.	A4	n.a.
3. Ethylbenzene {Ethylbenzol; Phenylethane}	100-41-4	No	2B	A3	No
4. Methyl ethyl ketone {MEK; 2-Butanone}	78-93-3	n.a.	n.a.	n.a.	n.a.
3-Methyl-2-butanone {Methyl isopropyl ketone: 3-Methylbutan-2-one}	563-80-4	n.a.	n.a.	n.a.	n.a.

### 12. Ecological Information

This product has not been tested as a whole. Information below will be for individual ingredients.

Acetone:

Toxicity:

LC50 /Oncorhynchus mykiss/ (Rainbow trout, weight 1.0 g) 5,540 mg/L/96 hr at 12 deg C (95% confidence limit 4,740-6,330 mg/L), /static bioassay/

LC50; Species: Oncorhynchus mykiss (Rainbow trout, fingerling, length 9.4 cm, weight 10.8 g); Conditions: freshwater, flow through, 10 deg C, pH 8.0; Concentration: 6100 mg/L for 24 hr

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LC50 Pimephales promelas (Fathead minnow, age 33 days, length 22.6 mm, weight 0.159 g) 8,120 mg/L/96 h (95% confidence limit: 7,530-8,760 mg/L); flow through, 25.0 deg C, dissolved oxygen 6.7 mg/L, hardness 48.5 mg/L CaCO3, alkalinity 45.8 mg/L CaCO3, pH 7.58 /99% pure/

Persistance and Degradability: Biodegradation of this compound is expected, but volatilization has been shown to be the primary removal mechanism of acetone in water (5-7).

Bioaccumulative Potential: Potential for bioconcentration in aquatic organisms is low.

Mobility In Soil: High mobility in soil.

Methyl Ethyl Ketone:

Toxicity:

LC50 Daphnia magna (water flea) <520 mg/L 48-hr

LC50 Lepomis macrochirus (bluegill) 5,640-1,690 mg/L 24 to 96-hr

Has shown low toxicity to fish and aquatic invertebrates.

At above 100 ppm it may inhibit the growth of blue-green algae but such concentrations are unlikely to be reached except for short periods following accidental discharge.

Persistance and Degradability: MEK is readily biodegradable.

Bioaccumulative Potential: Data suggests that MEK is unlikely to concentrate in aquatic species.

Mobility in Soil: MEK is expected to have very high mobility based upon Koc values of 29 and 34 obtained in silt loams.

Xylene:

Toxicity:

LD50 Goldfish 13 mg/l/24 hr

LC50 Rainbow trout 13.5 mg/l/96 hr

LC50 Fathead minnow 46 mg/l/1 hr; 42 mg/l/24-96 hr

Persistance and Degradability: It has been found that xylene is biodegraded in soil and groundwater samples under aerobic conditions and may be degraded under anaerobic denitrifying conditions.

Bioaccumulative Potential: The potential for bioconcentration in aquatic organisms is low based on an experimental BCF value of 20, measured in eels.

Mobility in Soil: Xylene is expected to have moderate to high mobility in soils based upon experimental Koc values obtained with a variety of soils at differing pH values and organic carbon content.

Ethylbenzene:

Toxicity:

LC50 Lepomis macrochirus 32 mg/l/96 hr

LC50 Carassius auratus 94.44 mg/l/96 hr

LC50 Pimephales promelas (fathead minnow) 12.1 mg/l/96 hr

Persistance and Degradability: Volatilization from moist soil surfaces is expected to be an important fate process based upon a Henry's Law constant of 7.88X10-3 atm-cu m/mole. Ethylbenzene may volatilize from dry soil surfaces based upon its vapor pressure. Biodegradation in soil takes place via nitrate-reducing processes. If released into water, ethylbenzene may adsorb to suspended solids and sediment in water based upon the estimated Koc. Volatilization from water surfaces is expected to be an important fate process based upon this compound's Henry's Law constant.

Bioaccumulative Potential: Measured BCFs of 0.67 to 15 suggest the potential for bioconcentration in aquatic organisms is low.

Mobility in Soil: Expected to have moderate mobility based upon an estimated Koc of 520.

## 13. Disposal Considerations

#### **Waste Disposal Method**

Dispose of waste at an approved hazardous waste treatment/disposal facility in accordance with applicable local, provincial and federal regulations.

Do not place material in general trash.

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Do not allow material to enter bodies of water or sewers.

### 14. Transport Information

**LAND TRANSPORT (US DOT)** 

**DOT Proper Shipping Name** Paint Related Material

**DOT Hazard Class:** 

**DOT Hazard Label:** FLAMMABLE LIQUID

**UN/NA Number:** UN1263

**Packing Group:** Ш

#### **Additional Transport Information**

The shipper/supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-308-3802

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.					
	15. Regulatory Information				
US EPA SARA Title III					
Hazardous Components (Chemical Name)	CAS#	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Acetone {2-Propanone}	67-64-1	No	Yes 5000 LB	No	Yes
2. Xylene (mixed isomers) {Benzene, dimethy -}	l 1330-20-7	No	Yes 100 LB	Yes	Yes
3. Ethylbenzene {Ethylbenzol; Phenylethane}	100-41-4	No	Yes 1000 LB	Yes	Yes
4. Methyl ethyl ketone {MEK; 2-Butanone}	78-93-3	No	Yes 5000 LB	No	Yes
5. 3-Methyl-2-butanone {Methyl isopropyl ketone; 3-Methylbutan-2-one}	563-80-4	No	No	No	No
US EPA CAA, CWA, TSCA					
Hazardous Components (Chemical Name)	CAS#	EPA CAA	<b>EPA CWA NPDES</b>	EPA TSCA	CA PROP 65
1. Acetone {2-Propanone}	67-64-1	HAP, ODC ()	No	Inventory	No
2. Xylene (mixed isomers) {Benzene, dimethy -}	I 1330-20-7	HAP, ODC ()	Yes	Inventory	No
3. Ethylbenzene {Ethylbenzol; Phenylethane}	100-41-4	HAP, ODC ()	Yes	Inventory, 4 Test	Yes
4. Methyl ethyl ketone {MEK; 2-Butanone}	78-93-3	ODC ()	No	Inventory	No
5. 3-Methyl-2-butanone {Methyl isopropyl ketone; 3-Methylbutan-2-one}	563-80-4	HAP, ODC ()	No	Inventory	No
SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:					
Sec.302:	EPA SARA Title	III Section 302 Ex	tremely Hazardous Ch	emical with TPQ. *	indicates

10000 LB TPQ if not volatile.

Sec.304: EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity.

\*\* indicates statutory RQ.

Sec.313: EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a

chemical category.

Sec.110: EPA SARA 110 Superfund Site Priority Contaminant List

**TSCA (Toxic Substances Control** 

Act) Lists:

Inventory: Chemical Listed in the TSCA Inventory.

5A(2): Chemical Subject to Significant New Rules (SNURS)

## **MATERIAL SAFETY DATA SHEET**

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	6A:	Commercial Chemical Control Rules
	8A:	Toxic Substances Subject To Information Rules on Production
	8A CAIR:	Comprehensive Assessment Information Rules - (CAIR)
	8A PAIR:	Preliminary Assessment Information Rules - (PAIR)
	8C:	Records of Allegations of Significant Adverse Reactions
	8D:	Health and Safety Data Reporting Rules
	8D TERM:	Health and Safety Data Reporting Rule Terminations
	12(b):	Notice of Export
Othe	er Important Lists:	
	CWA NPDES:	EPA Clean Water Act NPDES Permit Chemical
	CAA HAP:	EPA Clean Air Act Hazardous Air Pollutant
	CAA ODC:	EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
	CA PROP 65:	California Proposition 65
Inter	national Regulatory Lists:	
<b>EPA</b>	Hazard Categories:	
	This material meets the EPA 'Haz	zard Categories' defined for SARA Title III Sections 311/312 as indicated:  [X] Yes [] No Acute (immediate) Health Hazard
		[X] Yes [ ] No Chronic (delayed) Health Hazard
		[X] Yes [ ] No Fire Hazard
		[ ] Yes [X] No Sudden Release of Pressure Hazard
		[ ] Yes [X] No Reactive Hazard
Regu	ulatory Information	
	This product has been classified	according to the hazard criteria of the Controlled Products Regulations.
	Concentrations reported in sectio	n 2 are weight/weight.
	Ingredients disclosed in section 2	are on Canadian DSL.
	Acetone WHMIS Classification: Acetone WHMIS Health Effects D2B - Eye irritation - toxic - othe Acetone WHMIS Ingredient Disc	Criteria Met by this Chemical:
		material - Flammable liquid
	Xylene CAS # 1330-20-7 WHMIS Classification: B2 - Flammable and combustible D2A - Poisonous and infectious r	material - Other effects - Very toxic

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D2B - Skin irritation - toxic - other

WHMIS Health Effects Criteria Met by this Chemical:

D2A - Teratogenicity and embryotoxicity - very toxic - other

WHMIS Ingredient Disclosure List: Not included. Meets criteria for disclosure at 0.1% or greater

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Supercedes Revision: 04/16/2010

Ethyl Benzene CAS # 100-41-4

WHMIS Classification:

B2 - Flammable and combustible material - Flammable liquid

D2A - Poisonous and infectious material - Other effects - Very toxic

D2B - Poisonous and infectious material - Other effects - Toxic

WHMIS Health Effects Criteria Met by this Chemical:

D2A - Carcinogenicity - very toxic - other

D2B - Skin irritation - toxic - other

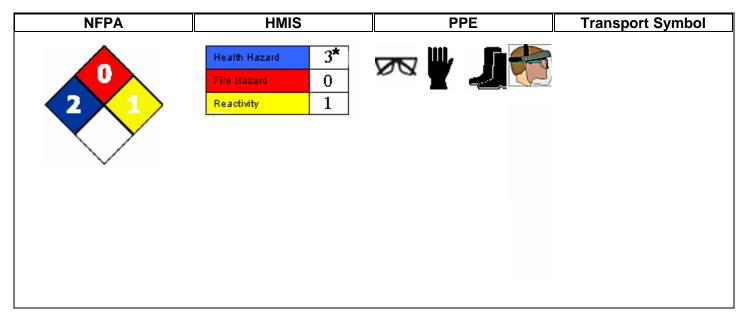
WHMIS Ingredient Disclosure List: Included for disclosure at 0.1% or greater.

## 16. Other Information

#### **Company Policy or Disclaimer**

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required



Issuing Date 07-May-2007 Revision Date 07-May-2007 Revision Number 1

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Great Value (GV) Regular Bleach

Recommended Uses Bleach

Contains more than 1% of active chlorine

Cleaning agent Home care

**Supplier Address** 

KIK International

33 MacIntosh Blvd, Concord, Ontario,

L4K 4L5 CA

Phone:905-660-0444 Fax:905-660-7333

Contact Phone: 905-660-0444 Emergency Phone: : 1-800-255-3924

Company Emergency Phone Number: 1-800-255-3924

#### 2. HAZARDS IDENTIFICATION

#### 2. HAZARDS IDENTIFICATION

WARNING!

#### **Emergency Overview**

Severe eye irritation.

May cause burns of eyes, skin and mucous membranes Irritating to eyes, respiratory system and skin

Harmful if swallowed.

 Appearance Pale yellow
 Physical State Liquid.
 Odor slight chlorine

**Potential Health Effects** 

Principle Routes of Exposure Inhalation, Skin contact, Eye contact.

**Acute Toxicity** 

**Eyes** Severely irritating to eyes. May cause burns. Risk of serious damage to eyes.

**Skin** Contact causes severe skin irritation and possible burns.

**Inhalation** Harmful by inhalation.

**Ingestion** Can burn mouth, throat, and stomach. Harmful if swallowed.

**Chronic Effects** Avoid repeated exposure. Possible risks of irreversible effects.

Aggravated Medical Conditions None known

Environmental Hazard See Section 12 for additional Ecological information

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sodium hypochlorite	7681-52-9	5 - 10
Water	7732-18-5	60 - 100

#### 4. FIRST AID MEASURES

**General Advice** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact Immediate medical attention is required. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

**Skin Contact**Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. If symptoms persist, call a physician.

**Inhalation** Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give

artificial respiration. If breathing is difficult, give oxygen.

Ingestion Immediate medical attention is required. Do not induce vomiting. Clean mouth with water and

afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Call a physician or Poison Control Center immediately.

Notes to Physician Treat symptomatically.

**Protection of First-aiders**Use personal protective equipment. Avoid contact with skin, eyes and clothing.

#### 5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable

Flash Point Not Applicable

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment

Uniform Fire Code • Irritant: Liquid

· Other Health Hazard: Target Organ Toxin--Liquid

Hazardous Combustion Products Carbon oxides

**Explosion Data** 

Sensitivity to mechanical impact Not sensitive Sensitivity to static discharge Not sensitive

#### **Specific Hazards Arising from the Chemical**

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

#### **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

NFPA Health Hazard 2 Flammability 0 Stability 0 Physical and Chemical Hazards -

#### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Keep people away from and upwind of spill/leak.

**Methods for Containment** Prevent further leakage or spillage if safe to do so

Methods for Cleaning Up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take up

mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. After cleaning, flush away traces with water.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

#### 7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Keep in properly labeled containers.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Engineering Measures Showers

Eyewash stations Ventilation systems

**Personal Protective Equipment** 

Eye/Face Protection Skin and Body protection Respiratory Protection Tightly fitting safety goggles. Face-shield.

Impervious clothing. Impervious gloves. Boots. Chemical resistant apron.

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

**Hygiene Measures** 

Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Keep away from food, drink and animal feeding stuffs. Regular cleaning of equipment, work area and clothing.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Pale yellow Odor slight chlorine

Odor Threshold No information available Physical State Liquid

**pH** 12.6

Flash Point Not Applicable Autoignition Temperature Not applicable

**Decomposition Temperature** No data available **Boiling Point/Range** 100°C / 212°F

Melting Point/Range No data available

Flammability Limits in Air No data available Explosion Limits No data available

Specific Gravity No data available Water Solubility Soluble in water

Solubility No data available Evaporation Rate No data available

Vapor Pressure No data available Vapor Density No data available

VOC Content Not applicable Partition Coefficient

(n-octanol/water)

#### 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

**Conditions to Avoid** Exposure to air or moisture over prolonged periods.

**Incompatible Products** Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Polymerization Hazardous polymerization does not occur

#### 11. TOXICOLOGICAL INFORMATION

#### 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product.

**Component Information** 

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium hypochlorite	8200 mg/kg (Rat)	10000 mg/kg ( Rabbit )	

#### **Chronic Toxicity**

**Chronic Toxicity** Avoid repeated exposure. Possible risks of irreversible effects.

Carcinogenicity There are no known carcinogenic chemicals in this product

<u>Mutagenicity</u>

**Sensitization** May cause sensitization of susceptible persons.

Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

Target Organ Effects Eyes, Skin.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors

#### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium hypochlorite	EC50 = 0.095 mg/L 24 h	LC50 0.22 - 0.62 mg/L		EC50 = 2.1 mg/L 96 h
	_	Pimephales promelas 96 h		_
		LC50= 5.9 mg/L Pimephales		
		promelas 96 h		

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Method This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR

261). This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

**Contaminated Packaging** Do not re-use empty containers.

US EPA Waste Number D002

This product contains one or more substances that are listed with the State of California as a hazardous waste

Chemical Name	California Hazardous Waste Status
Sodium hypochlorite	Toxic; Ignitable; Reactive

#### 14. TRANSPORT INFORMATION

	14. TRANSPORT INFORMATION					
DOT	Not regulated					
TDG	Not regulated					
MEX	Not regulated					
<u>ICAO</u>	Not regulated					
<u>IATA</u>	Not regulated					
IMDG/IMO	Not regulated					
RID	Not regulated					
ADR	Not regulated					
<u>ADN</u>	Not regulated					

\_\_\_\_

#### 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies
DSL Complies
EINECS/ELINCS Complies

**ENCS** Does not Comply

CHINA Complies
KECL Complies
PICCS Complies
AICS 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 Yes
Chronic Health Hazard Yes
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)

O ,				
Chemical Name	CWA - Reportable	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous
	Quantities		-	Substances
Sodium hypochlorite	100 lb			X

#### Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

#### **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
Sodium hypochlorite	100 lb	

#### **U.S. State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hypochlorite	X	X	X		
Water					

#### **International Regulations**

Mexico - Grade No information available

#### 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**

E Corrosive material



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

Issuing Date 07-May-2007

Revision Date 07-May-2007

Revision Note No information available

#### 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 of MSDS** 

## **The Clorox Company**

## **Material Safety Data Sheet**



	@ NATONALLI DEN	IVED ALL-PURPOSE	CLLANER	
Description: LIQUID WITH CI	TRUS SCENT			
Other Designations Di		tributor Emergency Telephone No		
Original Tangerine Simply Lemon	Tangerine 1221 Broadway		For Medical Emergencies call: 1-800-446-1014 For Transportation Emergencies, call Chemtre 1-800-424-9300	
II Health Hazard Data		III Hazardous	Ingredients	
Eye irritant. May cause skin irritation. No medical conc be aggravated by exposure to this product.	litions are known to	<u>Ingredient</u>	Concentration	Worker Exposure Limit
FIRST AID:		Alkyl polyglucoside CAS # 68515-73-1	1 - 5%	not established
EYE CONTACT: Immediately rinse with plenty of persists, call a doctor.	water. If irritation	Ethyl alcohol CAS # 64-17-5	1 - 5%	1000 ppm - TLV-TWA 1000 ppm - OSHA PEL
INGESTION: Drink a glassful of water. Call a docto center.	or or poison control	TLV-TWA = ACGIH	Threshold Limit Value - Time	· Weighted Average
$\underline{\sf SKIN\ CONTACT}$ . Rinse with plenty of water. If irrita doctor.	tion persists, call a	OSHA-PEL = OSHA Permissible Exposure Limit - Time Weighted Average		
<u>INHALATION</u> : Move person to fresh air. If breathing problems develop, call a doctor.		None of the materials in this product are on the IARC, OSHA, or No carcinogen lists.		
IV Special Protection and Precautio	ns	V Transporta	tion and Regulato	ory Data
Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.		DOT/IATA/IMDG: Not restricted.		
Engineering Controls: Use local exhaust to minimize emist.	exposure to product	EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 or regulated under Section 304/CERCLA.		
Personal Protective Equipment: Wear safety glasses neoprene gloves if there is the potential for repeated	or prolonged skin	TSCA: All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.		
contact. In situations where exposure limits may be exapproved respirator is advised.	ceeded, a NIOSH-	TSCA 12(b): This product is not subject to TSCA 12(b) reporting requirements.		
VI Spill Procedures/Waste Disposal		VII Reactivity	Data	
Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.		Stable under normal	use and storage conditions.	
Waste Disposal: Dispose of in accordance with all applicand local regulations.	cable federal, state,			
VIII Fire and Explosion Data		IX Physical D	ata	
Flash Point: >200°F (closed cup)		pH		~11.
		Specific gravity		
Fire Extinguishing Agents: Dry chemical, carbon dioxide water spray.	(CO₂), foam, or	Specific gravity		1



## **SAFETY DATA SHEET**

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

#### SECTION 1: Identification

**Product identifier** 

Product name Hardness Reagent

Product number R-0012

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

#### SECTION 2: Hazard(s) identification

Physical hazardsNo data availableHealth hazardsNo data availableEnvironmental hazardsNo data available

Label elements

Hazard pictograms No data available
Signal word No data available
Hazard statements No data available

Precautionary statements

Prevention No data available Response No data available

Storage Keep tightly capped. Store out of direct sunlight between 36°F–85°F.

Disposal No data available

Hazards not otherwise Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water.

**classified** If ingested, contact physician or local poison control center. Treat symptoms as needed.

#### SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	95–99
Ethylenediaminetetraacetic acid EDTA		60-00-4	0.1–5
Other components below reportable levels	N		0.01-0.1

#### SECTION 4: First-aid measures

#### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

#### In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

#### In case of eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

#### If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice.

SDS US

#### Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically.

#### **General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

#### SECTION 5: Firefighting measures

**Extinguishing media** 

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing Do not use a heavy water stream. Use of heavy stream of water may spread fire.

media

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion Hydrogen chloride gas and magnesium oxide

products

Advice for firefighters

Precautionary measures

Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

#### SECTION 6: Accidental release measures

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

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recover, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

#### SECTION 7: Handling and storage

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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

#### Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

#### SECTION 8: Exposure controls/personal protection

Occupational exposure limits No occupational exposure limits noted for the ingredient(s)

Biological limit values No biological exposure limits noted for the ingredient(s)

Exposure controls

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. Eyewash facilities and emergency shower must be available when handling this product.

SDS US

Personal protective equipment

> Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

#### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless or nearly colorless

Odor Odorless

Odor threshold No data available

Hq 8 1

No data available Evaporation rate Melting point No data available Freezing point No data available Boiling point 212°F (100°C) Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure 17 mm Hg

Relative vapor density

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

Explosive properties

No data available No data available

No data available

Oxidizing properties No data available

#### SECTION 10: Stability and reactivity

Reactivity Hazardous reactions will not occur under normal conditions.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

Viscosity

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Acids, metals, and strong oxidizing agents

#### SECTION 11: Toxicological information

#### Information on toxicological

effects

Inhalation May cause irritation to the respiratory system Skin contact May cause slight or mild transient irritation Eve contact May cause slight or mild transient irritation

Ingestion May cause irritation, nausea, vomiting, and diarrhea

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and

itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing

difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Acute toxicity** This product is not classified as an acute toxicity hazard. See below for individual ingredient acute

toxicity data.

Components **Species Test Results** Ethylenediaminetetraacetic acid (CAS 60-00-4)

Acute

Oral

 $LD_{50}$ Rat 4500 mg/kg

**Acute toxicity** No data available No data available Respiratory or skin

sensitization

Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity No data available (single exposure)

Specific target organ toxicity No data available

(repeated exposure)

No data available Aspiration hazard

#### SECTION 12: Ecological information

This 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.

#### SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### SECTION 14: Transport information

No data available

#### SECTION 15: Regulatory information

No data available

#### SECTION 16: Other information

**NFPA** Rating

Health hazard 0 Fire hazard 0 Reactivity 0 Specific N/A

#### Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

License granted to make unlimited paper copies for internal use only. This Safety Data Sheet may not be altered in any way without the expressed knowledge and permission of Taylor Technologies, Inc. The information contained in this sheet is based on lab experience and the most current data available.

Issue date:

June 2015

Last revision

June 2016



Document Title: MSDS Hibiclens®		Document Number Revision: 1	er: US-MSDS-030
Approval: Caitlin Senter	Page 1	1 of 6	Effective Date: 02/18/2010

## MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: HIBICLENS®

**Addresses/Phone Numbers:** 

Mölnlycke Health Care US, LLC

5550 Peachtree Parkway

Suite 500

Norcross, GA 30092

1-800-843-8497

Manufacturing DPT Lakewood, Inc.

Lakewood, NJ 08701

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.: None assigned for the product

Use: Antimicrobial agent

HAZARDOUS INGREDIENT(S) CAS No. % (w/w)

Chlorhexidine gluconate 018472-51-0 4.0

Isopropanol 000067-63-0 4.0

(2-Propanol)

#### 3. HAZARDS IDENTIFICATION

Form: Clear liquid Color: Pink Odor: Fragranced

Repeated or prolonged skin contact may cause irritation in sensitive individuals.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



Document Title: MSDS Hibiclens®	Document Nur Revision: 1	mber: US-MSDS-030
Approval: Caitlin Senter	Page 2 of 6	Effective Date: 02/18/2010

## MATERIAL SAFETY DATA SHEET

#### 4. FIRST-AID MEASURES

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention if ill effects occur.

Skin Contact: Wash skin with water.

Eye Contact: Irrigate with eyewash solution or clean water, holding the eyelids apart, for at least 15 minutes.

Obtain medical attention.

Ingestion: Wash out mouth with water. Obtain medical attention.

#### Note to Physicians

Symptomatic treatment and supportive therapy as indicated. For further detail, consult the prescribing information.

#### 5. FIRE-FIGHTING MEASURES

#### Flammable Properties

Flash Point (Deg C/Deg F): 64.4/148

Flammable Limits (Lower) (%v/v): 2 Flammable Limits (Upper) (%v/v): 12

Flammable Limits: (Isopropanol) Auto Ignition Temperature (Deg C/Deg F): No data

#### Combustible.

If involved in a fire, it may emit flammable vapors.

#### **Extinguishing Media**

Water spray, foam, dry chemical or CO<sub>2</sub>.

#### **Fire-Fighting Instructions**

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

#### 6. ACCIDENTAL RELEASE MEASURES

Small spillages: Clear up spillages. Drench spillages with water and wash to drain.

Large spillages: Do not allow to enter drains, sewers, or watercourses. Absorb spillages onto sand, earth, or

any suitable absorbent material. Transfer to a container for disposal.

Wash the spillage area with water, and flush to a sewer services by a wastewater treatment

facility.

Mölnlycke Health Care Peachtree Parkway , Suite 500 Norcross, GA 30092 USA Tel 678 250 7900 Fax 678 250 7984 www.molnlycke.com



Document Title: MSDS Hibiclens®		Document Numb Revision: 1	er: US-MSDS-030
Approval: Caitlin Senter	Page	3 of 6	Effective Date: 02/18/2010

## MATERIAL SAFETY DATA SHEET

#### 7. HANDLING AND STORAGE

#### 7.1 HANDLING

Avoid contact with eyes.

Follow procedures specified in the National Fire Protection Association Codes and Standards for handling flammable liquids.

#### 7.2 STORAGE

Keep container tightly closed. Protect from light.

Storage Temperature: room temperature

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## **Engineering Controls Occupational Exposure Limits**

No ACGIG TLV or OSHA PEL is assigned to this mixture.

	TWA		STEL/CEILING (C)	
HAZARDOUS INGREDIENT(S)	ppm	$mg/m^3$	ppm	$mg/m^3$
Chlorhexidine	-	-	=	0.1 COM
This is an in-house standard for the active	ingredient du	ring manufacture.		
Isopropyl alcohol	400	983	500	1230 TLV

#### **Personal Protective Equipment**

Respirators: Use NIOSH approved respirator for dusts, mists, and fumes with a TLV greater

than 0.05 mg/m<sup>3</sup> in combination with an organic vapor cartridge.

Protective Clothing: Impervious gloves and apron.

Eye Protection: Chemical tight goggles; full faceshield in addition if splashing is possible.

Other Protective Equipment: Eyewash station and safety shower in work area.

Mölnlycke Health Care Peachtree Parkway , Suite 500 Norcross, GA 30092 USA Tel 678 250 7900 Fax 678 250 7984 www.molnlycke.com



Document Title: MSDS Hibiclens®		Document Numb Revision: 1	er: US-MSDS-030
Approval: Caitlin Senter	Page 4 of 6		Effective Date: 02/18/2010

## **MATERIAL SAFETY DATA SHEET**

Name: HIBICLENS®

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form: Clear liquid Color: Pink Odor: Fragranced pH (Value): 5-6.5 Boiling Point (Deg C/Deg F): No data Vapor Pressure (mm Hg): No data Soluble Solubility (Water): Specific Gravity: 1.06 Vapor Density (Air = 1): No data

#### 10. STABILITY AND REACTIVITY

Stable under normal conditions.

Hazardous Reactions: Incompatible materials: Strong oxidizing agents, anionic compounds

Hazardous polymerization will not occur.

Hazardous Decomposition Product(s): Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia

#### 11. TOXICOLOGICAL INFORMATION

Inhalation: The vapor has anesthetic properties and when inhaled at concentrations above the

occupational exposure limit, it may cause headache, fatigue, dizziness, incoordination, and

loss of consciousness.

Skin Contact: Repeated or prolonged skin contact may cause irritation in sensitive individuals.

Eye Contact: Liquid splashes may cause eye irritation.

Ingestion: The swallowing of small splashes is unlikely to cause any adverse effects.

Long Term Exposure: Chronic effects are unlikely.



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Approval: Caitlin Senter	Page	5 of 6	Effective Date: 02/18/2010

## **MATERIAL SAFETY DATA SHEET**

#### 12. ECOLOGICAL INFORMATION

#### **Environmental Fate and Distribution**

The product is soluble in water.

#### **Toxicity**

Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

#### **Effect on Effluent Treatment**

Low toxicity to sewage microorganisms.

#### 13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state, or national legislation.

#### **Disposal Method**

Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

#### **Container Disposal**

Empty container contains product residue. Observe all hazard precautions.

#### 14. TRANSPORT INFORMATION

Not Classified as Dangerous for Transport.

#### 15. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: All ingredients are on the TSCA Chemical Substances Inventory.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

#### 16. OTHER INFORMATION

This Material Safety Data Sheet was prepared in accordance with ANSI Standard Z400.1, 1993.



Material Safety Data Sheet

Document Title:	Document Nu	Document Number: US-MSDS-030		
MSDS Hibiclens®	Revision: 1	Revision: 1		
Approval: Caitlin Senter	Page 6 of 6	Effective Date: 02/18/2010		

# MATERIAL SAFETY DATA SHEET

## **GLOSSARY**

COM: The company aims to control exposure in its workplace to this limit.

This is an in-house standard for the active ingredient handled during manufacture

TLV: The company aims to control exposure in its workplace to the ACGIH limit.

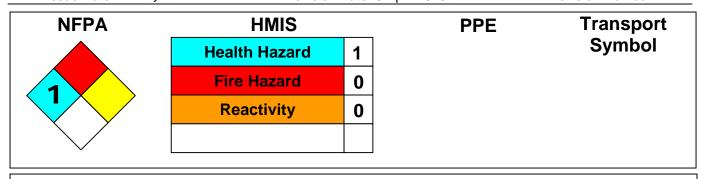
Sk: Can be absorbed through skin.

Sen: Capable of causing respiratory sensitization

The information herein is given in good faith, but no warranty, expressed or implied, is made.

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7



### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Alcohol Free Lens Cleaner

Leader Lens Cleaner NaturalEyes Lens Cleaner

Product Number(s): Various

Recommended Use: Lens cleaner

**Supplier Information:** 

Hilco

33 West Bacon Street, Plainville, Massachusetts, 02762 USA

Phone: 1-508-699-4406 Fax: 1-508-699-4579

Contact: Contact Phone:

Emergency Phone: Call INFOTRAK - 1-800-535-5053

### 2. HAZARDS IDENTIFICATION

### **Potential Health Effects**

**Acute Toxicity** 

**Eyes** Mild eye irritant.

**Skin** No adverse effects expected under typical use conditions. Prolonged exposure may

cause skin dryness.

InhalationNo adverse effects expected under typical use conditions.IngestionMay cause stomach or intestinal discomfort if swallowed.

Chronic Effects No known effects based on information supplied.

**Aggravated Medical Conditions**No medical conditions are known to be aggravated by exposure to this product.

Interactions w/ Other Chemicals None known.

Environmental Hazards See section 12

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

### 3. INGREDIENTS

Chemical Name	CAS No.	% by Weight
Water	773-18-5	85 - 95
2-butoxyethanol	111-76-2	5-15
Sodium Bicarbonate	144-55-8	<0.2
Fragrance	Mixture	<0.2

### 4. FIRST AID MEASURES

Eye Contact Reddening may develop. Rinse Immediately with plenty of clean water, also under eyelids, for at

least 15 minutes. Keep eyes wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact** Minimal effects expected, and if any, are reversible. If any, immediately wash with soap and water.

If irritation persists, or allergic reaction occurs, call a physician.

**Inhalation** Move to fresh air.

Ingestion Drink plenty of water to dilute. Do not induce vomiting. If stomach or intestinal upset occurs, consult

a physician immediately.

Notes to Physicians Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

This product is stable, non-flammable in its liquid state, and will not burn.

Flammable Properties Not flammable.

Flash Point Not flammable

**Extinguishing Media** Not flammable, non-explosive.

**Uniform Fire Code** 

Hazardous Byproducts of Combustion None expected

**Explosion Data** 

Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
Not sensitive
Not sensitive

Protective Equipment None required

**Special Precautions** 

NFPA Health Hazard: 1 Flammability: 0 Stability: 0 Physical & Chemical Hazards:

## 6. ACCIDENTAL RELEASE & SPILL MEASURES

Personal Precautions Avoid contact with skin and eyes. Wash hands thoroughly after clean-up.

**Containment Methods** Prevent further leakage or spillage. Dam up area.

Clean-up Methods Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

bunder, sawdust). Pick up and transfer to properly labeled containers.

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

## 7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practices. Avoid contact with

skin eyes. Keep out of reach of children.

**Storage** No special precautions required.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-butoxyethanol	TWA: 20 ppm	TWA: 50 ppm	IDLH: 700 ppm
		TWA: 240 mg/m <sup>3</sup>	
	(vacated) TWA: 25 ppm		
	(vacated) TWA: 120 mg/m <sup>3</sup>		
		Skin	

**Engineering Measures** None required under normal use.

**Personal Protective Equipment** 

**Eye & Face Protection** Eye protection not required under normal use conditions.

**Skin & Body Protection** Repeated daily application to the skin without rinsing, or continuous contact on the skin may

lead to temporary, but reversible, irritation. Rinse completely from skin after contact.

**Respiratory Protection** None required. Avoid breathing vapor or mist.

Hygiene Measures Generally good industrial hygiene practices. Avoid contact with eyes. Avoid breathing vapor

or mist. Wash hands thoroughly after use and before eating, drinking or smoking.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Odor ...... Mild citrus

Odor Threshold......no information available

Physical State .....Liquid

pH ......7

Water Solubility.....soluble in water

 Vapor Density
 1.3

 Specific Gravity (@20°C)
 1.010

 VOC Content
 5.09

 Partition coefficient (n-octanol/water)

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

### 10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions

Incompatible Products

None known based on information supplied

Conditions to Avoid None known.

Hazardous Byproducts of Decomposition None expected

Hazardous Polymerization Hazardous polymerization does not occur

## 11. TOXICOLOGICAL INFORMATION

### **Acute Toxicity**

Product Information Product does not present an acute toxicity hazard based on known or supplies

information.

Chemical Name	LD50 Oral	LD50 Dermal	LD50 Inhalation
Water 90 mL/kg (Rat)			
2-butoxyethanol	470 mg/kg (Rat)	220 mg/kg (Rat) 2270 mg/kg (Rabbit)	2.21 mg/L (Rat) 4h 450 ppm (rat) 4h
Sodium Bicarbonate	4220 mg/kg (Rat)		

## **Chronic Toxicity**

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
2-butoxyethanol	A3			

ACGIH: Americam Conference of Governmental Industrial Hygienists)

A3: Animal Carcinogen

Target Organ Effects Blood, Central Nervous System (CNS), Eyes, Hematopoietic System, Kidney, Liver,

Respiratory System, Skin.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

	·		Toxicity to	Daphnia Magna (Water
Chemical Name	Toxicity to Algae	Toxicity to Fish	Microorganisms	Flea)
2-butoxyethanol		LC50=1490 mg/L Lepomis macrochirus 96h		LC50 1698-1940 mg/L 24h EC50 = 1720 mg/L 24h
Sodium Bicarbonate	EC50 > 650mg/L 120h	LC50=8250-9000 mg/L Lepomis macrochirus 96h		EC50 = 2350 mg/L 48h

Chemical Name	Log Pow	
2-butoxyethanol	=0.81 25A°C	

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

### 13. WASTE DISPOSAL

**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 requirements.

**Contaminated Materials** 

Dispose of in accordance with local regulations.

### 14. TRANSPORTATION

## 15. REGULATORY INFORMATION

## **International Inventories**

TSC	Complies
DSL	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

## **U.S. Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, part 372.

			SARA 313 - Threshold Values
Chemical Name	CAS No.	% by Weight	%
2-butoxyethanol	Proprietary	5-15	1.0

### SARA 313 / 312 Hazard Catagories

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

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

Reactive Hazard

### **Clean Water Act**

This Product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

No

## Clean Air Act, Sec. 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPs) under Sec. 112 of the Clean Air Act.

					Class 1 Ozone	Class 2 Ozone
Chemical Name	CAS No.	% by Weight	HAPs Data	VOC Chemicals	Depletors	Depletors
2-butoxyethanol	111-76-2	5 - 15		Group I		

### **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.

### **U.S. State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

order order regime to renow regulations							
	Chemical Name	MA	NJ	PA	IL	RI	
	2-butoxyethanol	X	Х	Х	X	X	

## **International Regulations**

Mexico – Grade No information available

Chemical Name	Carcinogen Status	Exposure Limits
2-butoxyethanol		Mexico: TWA=400ppm
		Mexico: TWA=980 mg/m <sup>3</sup>
		Mexico: STEL=1225 mg/m <sup>3</sup>
		Mexico: STEL=500ppm

### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR), and the MSDS contains all of the information required by the CPR.

### WHMIS Hazard Class: none

This product contains the following substances:

Chemical Name	National Pollutant Release Inventory	
2-butoxyethanol	X	

PRODUCT: Alcohol Free Lens Cleaning Liquid

Issue Date: 18 July 2006 Revision Date: 3 April 2013 Revision Number: 7

### 16. OTHER INFORMATION

Date of Issue 2 February 2009

Revision date 1 April 2013

**Revision Note** 

# **Hazards and Emergency Overview**

May be irritating to skin and eyes. May cause irritation if swallowed.

### 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, release and disposal, and is not to be considered as a warranty or quality specification. The information related 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 of this MSDS. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers.

\* \* \* END OF MATERIAL SAFETY DATA SHEET \* \* \*

# **HOSPECO HEALTH GARDS METERED AIR FRESHENERS**

BABY POWDER 07909; VERY VANILLA 07915; MANGO MADNESS 07917; FRESH LINEN 07918; FRUIT BASKET 07929; ORCHARD SPICE 07930; CITRUS GROVE 07931; FRESH GARDEN 07932;

DACKET 07020	, ORGINARD	01 10E 07000, 0111to	0 011012 0700	· · , · · · · - ·	II OAKBEN OF	<b>332</b> ,
Material Safety Data Sheet  Quick Identifier (In Plant Common Name)						
Manufacturer's Name & Address	HOSPECO 26301 Curti Cleveland, 0	ss-Wright Parkway Ohio 44143	HMIS Symb  Health Flammabilit	1	HMIS NFPA Minimal 0 Insignific Slight 1 Slight Moderate 2 Moderat	Toxicity 1 0 Reactivity
Telephone No.	1-800-321-9	9832	Reactivity	0	Serious 3 High Severe 4 Extreme	Special
Date Prepared:	May 23, 201	12 Prepared	1 By: 1/ Bu	mell	Supe	rcedes: NEW
SECTION 1 - II	DENTITY					
Common Name: ( (Trade name & Sy		HOSPECO HEALTH HG BABY POWDER 07917; FRESH LINE 07930; CITRUS GR	07909; VER EN 07918; FRU	Y VANILI JIT BASK	LA 07915; MA (ET 07929; OR	CHARD SPICE
Chemical Name		Mixture packaged in pre	essurized aeroso	l spray ca	n.	
SECTION 2 - H	IAZARDOU	S INGREDIENTS				
Principal Hazardo	us Component(	(s) CAS No.	OSHA PEL			er Limits
2-Propanone		67-64-1	1000 ppm	500 pp 750 pp	om om STEL	
Liquefied Petroleu		68476-86-8	Unknown	1000 բ	•	
		dicates hazardous ingredients w ght-To-Know Act of 1986 and of		cals subject	to the reporting requ	irements of Section 313 of the
		CHEMICAL CHAR		CS		
Boiling Point	>100°F	Specific Gravity (H <sub>2</sub> 0=1)(Conc)		g/ml	Vapor Pressur (Propellant)	<sup>e</sup> No Data
% - VOC	29.50%	Evaporation Ra (BuAc=1)	te >1.00		pН	N/A
Solubility In Water	Insoluble	Appearance and Odor(Conc)	Water white	e clear liqu	uid with a charac	teristic odor(s)
SECTION 4 - F	TRE & EXP	LOSION DATA				
Flammability (per flame projecti	on) FLAMM	MABLE Flammable Lim in Air (Propella		Upper N/A	Extinguisher Media	Dry chemical, CO <sub>2</sub> , Alcohol-resistant foam
Special Fire Fighting Procedure		ntainers cool using water	spray. Use prope	er equipmo	ent to protect pe	rsonnel from bursting
Unusual Fire and Explosion Hazards		under pressure. Do not or burst.	expose to temper	ratures ex	ceeding 120° F a	as containers may vent,
SECTION 5 - P	HYSICAL H	IAZARDS				
Stability Unstable Stable	_	open flames:	Hazardous Polymerizatio		May Occur □ Will not Occur ■	
Incompatibility (M	laterials to Avo	id) Acids, alkalis, Re	educing agents, S	trong oxid	dizing agents	
Hazardous Decom	position Produ	cts CO and CO <sub>2</sub>				
SECTION 6 - H	IEALTH HA	ZARDS				
Routes of Entry	Inhalat	ion: Yes Eyes	/Skin: Yes	Ingestion	ı: Unlikely	

Signs and Symptoms of Exposure (Acute & Chronic)	<b>Eye contact:</b> Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes; <b>Skin contact:</b> May cause mild skin irritation. Prolonged or repeated contact madry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use. <b>Ingestion:</b> Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting This can result into lung inflammation and other lung injury; <b>Inhalation:</b> Breathing of vapor or mis is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects.				
Medical Conditions Generally Aggravated by Exposure	Pre-existing skin and lung disorders				
Chemical Listed as Carc or Potential Carcinogen	rinogen National Toxicology Yes □ I.A.R.C. Yes □ OSHA Yes □ No ■ Monographs No ■ OSHA No ■				
<b>Emergency and First Aid</b>	d Procedures				
	ately move to fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids eek immediate medical attention.				
	ately move to fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids eek immediate medical attention.				
	e contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medican. Launder clothing before reuse.				
	edical attention. Contact a physician, medical facility, or poison control center for advice about to induce vomiting.				
SECTION 7 – SPEC	TAL PROTECTION INFORMATION				
Respiratory Protection (Specify Type)	None required for normal use.				
Ventilation Local Exhaust					
	hemical Resistant Eye Protection Safety Glasses				
Other Protective Clothin	ng or Equipment Wash hands after use.				
SECTION 8 – SPEC	TIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES				
Precautions to be Taken Handling and Storage	WARNING: FLAMMABLE. Contents under pressure. Keep away from heat, sparks and open flames. Excessive inhalation in confined areas may cause headaches or dizziness Intentional misuse by deliberately concentrating or inhaling the contents may be harmful or fatal. Avoid contact with skin and eyes. Avoid contact with food and food handling surfaces. Avoid contact with painted, varnished or plastic surfaces. Do not store at temperatures above 120°F. Do not puncture or incinerate containers. Keep out of reach of children. Store in accordance with NFPA 30B for Level 3 Aerosols.				
Other Precautions	Read label cautions carefully. Follow label directions to avoid injury.				
Steps to be Taken in Cas Material is Released or S	·				
Waste Disposal Methods	Dispose of in accordance with local, state, and federal regulations.				
Proposition 65	California Safe Drinking Water and Toxic Enforcement Act of 1986: This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to th proposition.				
Transportation Info	DOT CLASSIFICATION: HAZARDOUS PACKING GROUP: N/A ransportation Info DESCRIPTION: CONSUMER COMMODITY, ORM-D UN NUMBER: UN 1950 HAZARD CLASS: 2.1				

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.

## **HYDROGEN PEROXIDE 3% SOLUTION**

Product and Company Identification

Composition/Information on Ingredients

Hazards Identification
First Aid Measures
Fire Fighting Measures

Accidental Release Measures

Handling and Storage

Exposure Controls/Personal Protection

Physical and Chemical Properties

Stability and Reactivity
Toxicological Information
Ecological Information
Disposal Considerations
Transport Information

Regulatory Information

Other Information / Hazmat Info / Hazcom Label

**MSDS Safety Information** 

**TOP** 

FSC: 6505

NIIN: 00-153-

MSDS Date: 07/10/1990

MSDS Num: BGXST

8480

Submitter: D DG

Tech Review: 09/21/1990

Status CD: C

Product HYDROGEN PEROXIDE 3% SOLUTION

MFN: 01

ID:

Article: N

Kit N

Part:

Responsible Party

Cage: 0TH10

Name: CUMBERLAND-SWAN, INC.

Address: ONE SWAN DRIVE

Box: 129

City: SMYRNA

State: TN

Zip: 37167

Country: US

Info Phone Number: 615-459-8900

Emergency Phone Number: 615-459-8900

Preparer's Name: JAMES R.BEAVER

Proprietary Ind: N

Review Ind: Y

Published: Y

Special Project CD: N

**Contractor Summary** 

TOP

Cage:ATD-A

Name: ATD AMERICAN CO. (215-576-1000)

Address: UNKNOWN

City:UNKNOWN

State:NK

Zip:00000

Country:NK

Phone: UNKNOWN

Cage:66611

Name: CMC INC. DBA CUMBERLAND MFG CO.

Address: ONE SWAN DRIVE

City:SMYRNA

State:TN

Zip:37167

Country:US

Phone:615-459-8900

Cage:0TH10

Name: CUMBERLAND-SWAN, INC

Address: ONE SWAN DRIVE

City:SMYMA

State:TN

Box:129

Zip:37167

Country:US

Phone:615-459-8900

= Item Description Information =

<u>TOP</u>

Item Manager: S9G

Item Name: HYDROGEN PEROXIDE TOPICAL SOLUTION, USP

Specification Number: NK

Type/Grade/Class: NK

Unit of Issue: BT

UI Container Qty: 1.000 PT

Quantitative Expression: NK

Type of Container: BOTTLE

Ingredients

<u>TOP</u>

Cas: 7722-84-1

Code: M

RTECS #: MX0900000 Code: M

Name: HYDROGEN PEROXIDE (SARA III)

% Text: 3

Environmental Wt:

Other REC Limits: NOT ESTABLISHED

OSHA PEL: 1 PPM

Code: M

OSHA STEL: Code:

ACGIH TLV: 1 PPM; 9192

Code: M

ACGIH N/P STEL:

Code:

EPA Rpt Qty:

DOT Rpt Qty:

Ozone Depleting Chemical: N

Cas: 7732-18-5

Code: M

RTECS #: ZC0110000 Code: M

Name: WATER

% Text: 97

Environmental Wt:

Other REC Limits: NOT ESTABLISHED

OSHA PEL: NOT ESTABLISHED

Code: M

OSHA STEL: Code:

ACGIHTLV: NOT ESTABLISHED

Code: M

ACGIH N/P STEL:

Code:

EPA Rpt Qty:

DOT Rpt Qty:

Ozone Depleting Chemical: N

Health Hazards Data

TOP

LD50 LC50 MixtureLD50 (INH RAT) IS 2000 MG/M3/4H (90%)

Route Of Entry Inds - Inhalation: NO

Skin:NO

Ingestion:NO

Carcinogenicity Inds - NTP:NO

IARC:NO

OSHA:NO

Health Hazards Acute And Chronic

ACUTE: IRRITATING TO THE EYE.

**Explanation Of Carcinogenicity** 

THIS PRODUCT IS NOT LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Signs And Symptions Of Overexposure

EYE IRRITATION.

Medical Cond Aggravated By Exposure

NONE

First Aid Information

TOP

EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. SEE DOCTOR. SKIN: WASH WITH WATER. INHALATION: REMOVE VICTIM TO FRESH AIR. SEE DOCTOR. INGESTION: DRINK PLENTY OF WATER IMMEDIATELY TO DILUTE, BUT DO NOT ATTEMPT TO INDUCE VOMING. SEEK IMMEDIATE MEDICAL ATTENTION.

Spill Release Procedures

TOP

DILUTE WITH LARGE AMOUNTS OF WATER AND IF POSSIBLE, DIRECT SOLUTION TO DIKED AREA AND HOLD UNTIL DECOMPOSED. DISPOSE IN ACCORDANCE WITH LOCAL ENVIRONMENTAL REGULATIONS.

**Neutralizing Agent** 

NOT APPLICABLE.

Waste Disposal Methods

TOP

DILUTE WITH LARGE AMOUNTS OF WATER. IF LOCAL REGULATIONS PERMIT, WASH TO SEWER. IF LOCAL REGULATIONS DO NOT PERMIT WASTE TO GO TO SEWER, TREAT AS DIRECTED BY LOCAL AGENCY.

Handling and Storage Precautions

**TOP** 

STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

### Other Precautions

DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOIDCONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.

Fire and Explosion Hazard Information

TOP

Flash Point Method: N/P

Flash Point:

Flash Point Text: NONE

**Autoignition Temp:** 

Autoignition Temp Text: NONE

Lower Limits: N/R

Upper Limits: N/R

**Extinguishing Media** 

ANY BOTTLE SURROUNDED BY FIRE SHOULD BE FLOODED WITH WATER FOR COOLING.

**Fire Fighting Procedures** 

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRES. USE WATER SPRAY TO COOL NEARBY CONTAINERS.

Unusual Fire/Explosion Hazard

DECOMPOSITION RELEASES OXYGEN WHICH MAY INTENSIFY FIRE.

**Control Measures** 

**TOP** 

Respiratory Protection

NONE NORMALLY REQUIRED. NIOSH APPROVED RESPIRATOR IF EXPOSURE LEVELS ARE EXCEEDED.

Ventilation

LOCAL EXHAUST.

**Protective Gloves** 

NONE NORMALLY REQUIRED

**Eye Protection** 

CHEMICAL SAFETY GOGGLES

Other Protective Equipment

EYE WASH STATION.

Work Hygienic Practices

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET IN EYES. DO NOT

### BREATHE VAPORS OR MISTS.

Physical/Chemical Properties

**TOP** 

HCC: N1

NRC/State LIC No: N/R

Net Prop WT For Ammo: N/R

**Boiling Point:** 

B.P. Text: 214F,101C

Melt/Freeze Pt:

Decomp Temp:

M.P/F.P Text: UNKNOWN

Decomp Text: UNKNOWN

Vapor Pres: 10.1

Vapor Density: UNKNOWN

Volatile Org Content %:

Spec Gravity: 1.0

VOC Pounds/Gallon:

PH: 6

**VOC Grams/Liter:** 

Viscosity: UNKNOWN

Evaporation Rate & <1 (WATER = 1)

Reference:

Solubility in Water: COMPLETE

Appearance and Odor: COLORLESS, ODORLESS LIQUID.

Percent Volatiles by Volume: 100

Corrosion Rate: UNKNOWN

Reactivity Data

**TOP** 

Stability Indicator: YES

Stability Condition To Avoid: EXCESSIVE HEAT

Materials To Avoid: STRONG REDUCING AGENTS, RUST, DIRT, ORGANIC MATERIALS WITH A PH ABOVE 4.

Hazardous Decomposition NOT APPLICABLE Products:

Hazardous Polymerization NO

Indicator:

Conditions To Avoid NOT APPLICABLE Polymerization:

**Toxicological Information** 

<u>TOP</u>

Toxicological Information: N/P

**Ecological Information** 

TOP

Ecological: N/P

**MSDS Transport Information** 

TOP

Transport Information: N/P

Regulatory Information

TOP

Sara Title III Information: N/P

Federal Regulatory Information: N/P State Regulatory Information: N/P

Other Information

TOP

Other N/P Information:

**HMIS Transportation Information** 

TOP

Responsible Party Cage: 0TH10

Trans ID NO: 51733

Product ID: HYDROGEN PEROXIDE 3% SOLUTION

MSDS Prepared Date: 07/10/1990

Review Date: 09/11/1996

MFN: 1

Submitter: D DG

Radioactivity: N/R

Status C CD:

Article W/O MSDS: N

Tech Entry NOS Shipping Nm:

Form:

Net Explosive Weight: N/R

Coast Guard AMMO Code: N/R

Magnetism: N/P

Net Unit Weight: 1.0

POUND

AF MMAC Code:

DOD Exemption NUM: N/R

Limited Quantity IND:

Multiple KIT Number: 0

Kit Part IND: N

Kit IND: N Review IND: Y

Unit Of Issue: BT

Container QTY: 1.000 PT

Type Of Container: BOTTLE

Additional Data: 3% SOLUTION OF HYDROGEN PEROXIDE,

STABILIZED.

**Detail DOT Information** 

<u>TOP</u>

DOT PSN Code: ZZZ

Symbols: N/R

**DOT Proper Shipping Name:** NOT REGULATED BY THIS MODE OF TRANSPORTATION

**DOT PSN Modifier:** 

Hazard Class: N/R

UN ID Num: N/R

DOT Packaging Group: N/R

Label: N/R

Special Provision: N/R

Packaging Exception: N/R

Non Bulk Pack: N/R Max Qty Pass: N/R Bulk Pack: N/R Max Oty N/R

Cargo:

Vessel Stow Req: N/R Water/Ship/Other Req: N/R

TOP

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION IMO PSN Modifier:

IMDG Page Number: N/R

UN Number: N/R

UN Hazard Class: N/R

IMO Packaging Group: N/R

Subsidiary Risk Label: N/R

EMS Number: N/R

MED First Aid Guide NUM: N/R

**Detail IATA Information** 

**Detail IMO Information** 

**TOP** 

IATA PSN Code: ZZZ

IATA UN ID NUM: N/R

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IATA PSN Modifier:

IATA UN Class: N/R

Subsidiary Risk N/R

Class:

IATA Label: N/R

UN Packing Group: N/R

Packing Note Passenger: N/R

Max Quant Pass: N/R

Max Quant Cargo: N/R

Packaging Note Cargo: N/R

Exceptions: N/R

**Detail AFI Information** 

**TOP** 

AFI PSN Code; ZZZ

AFI Symbols:

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION AFI PSN Modifier:

AFI Hazard Class: N/R

AFI UN ID NUM: N/R

AFI Packing Group: N/R

AFI Label: N/R

Special Provisions: N/A

Back Pack Reference: N/A

HMIS HAZCOM Label

**TOP** 

Product ID: HYDROGEN PEROXIDE 3% SOLUTION

Cage: 0TH10

Assigned IND: N

Company CUMBERLAND-SWAN, INC

Name:

Street: ONE SWAN DRIVE

PO Box: 129

City: SMYMA

State: TN

Zipcode: 37167

Country: US

Health Emergency Phone: 615-459-8900

Label Required IND: N

Status Code: C

Label Date: 09/11/1996

Date Of Label Review: 09/11/1996

MFG Label NO: N/R Year Procured: 1990

Origination Code: F Eye Protection IND: YES

Chronic Hazard IND: N Skin Protection IND: N/P

Signal Word: CAUTION

Respiratory Protection IND: N/P

Health Hazard: None Contact Hazard: None

Fire Hazard: None Reactivity Hazard: Slight

**Hazard And Precautions** 

N/P

This information is derived from the Hazardous Material Information System which is utilized by the U.S. Department of Defense. <a href="https://linear.com/IntraWEB">IntraWEB</a>, LLC and its Distributors in no manner whatsoever, expressly or implied warrants, states, or intends said information to have any application use or viability by or to any person or persons. Any person utilizing this information should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.

# Page 1 of 4 MSDS # 110338037

# PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999	Supersedes: 19Feb1996

US MANUFACTURER:	CANADIAN	MANUFACTURER:
------------------	----------	---------------

S.C. Johnson & Son, Inc. Phone: (800) 725-6737

Racine, Wisconsin 53403-2236 Emergency Phone: (888) 779-7920 International Emergency Phone:

(262) 886-1480

S.C. Johnson and Son, Limited

Phone: (800) 725-6737

1 Webster Street

Brantford, Ontario N3T 5R1 Transportation Emergency:

CANUTEC (collect) (613) 996-6666 Poison Control: (888) 779-7920

HAZARD RATING	HMIS	HAZARD	NFPA	DISTRIBUTED IN CANADA BY:
				S.C. Johnson and Son, Limited
4-Very High	0	Health	0	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...... PLEDGE® AEROSOL - LEMON REASON FOR CHANGE..... No significant changes.

PRODUCT USE..... Furniture care

	UPC	SCJ CODE	QUANTTTY	US STZE	CANADTAN STZE
	62300 00332	21009	12		200 GM
į	62300 00334	21010	12		350 GM
1	62300 00329	329	12		500 GM
	19800 08399	329	12	20 oz	
4	46500 00338	329	12	12.5 oz	

## ----- SECTION 2 - INGREDIENT INFORMATION -----

INGREDIENT	WEIGHT%	EXPOSURE LIMIT/TOXICITY
Silicones (CAS# 63148-62-9)	1-5 1-5	800 ppm ACGIH/OSHA TWA NOT ESTABLISHED
Propane (CAS# 74-98-6)		1000 ppm OSHA PEL
<pre>Isoparaffinic Hydrocarbon Solvent (CAS# 68920-06-9)</pre>	5-10	NOT ESTABLISHED
Water (CAS# 7732-18-5)	65-80	NOT ESTABLISHED

# ----- SECTION 3 - HEALTH HAZARDS IDENTIFICATION (Also See Section 11) ------

ROUTE(S) OF ENTRY..... Skin contact. Ingestion.

EFFECTS OF ACUTE EXPOSURE:

EYE..... May cause: Sensation of irritation.

SKIN...... None known. INHALATION...... None known.

INGESTION..... Aspiration into the lungs may cause severe health effects.

MEDICAL CONDITIONS..... None known.

GENERALLY RECOGNIZED AS BEING AGGRAVATED

BY EXPOSURE

Page 2 of 4 MSDS # 110338037

# PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999 Supersedes: 19Feb1996

# ----- SECTION 4 - FIRST AID MEASURES -----

EYE CONTACT..... Rinse with plenty of water.

SKIN CONTACT..... Wash contaminated area with water and soap.

INHALATION..... Remove to fresh air.

INGESTION..... Immediately drink 1-2 glasses of water or milk. Seek immediate

medical attention.

## 

FLASH POINT..... < 20°F (< -7°C) (TCC) (propellant)

FLAMMABLE LIMITS..... Not available. AUTOIGNITION...... Not applicable.

TEMPERATURE

EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. Water foq.

SPECIAL FIREFIGHTING... 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..... Aerosol product - Containers may rocket or explode in heat of

EXPLOSION HAZARDS fire.

# ----- SECTION 6 - PREVENTIVE RELEASE MEASURES -----

STEPS TO BE TAKEN IN... Eliminate all ignition sources. Absorb with oil-dri or similar CASE MATERIAL IS inert material. Sweep or scrape up and containerize. Rinse RELEASED OR SPILLED affected area thoroughly with water.

# ------ SECTION 7 - HANDLING AND STORAGE ------

PRECAUTIONARY...... CAUTION: FLAMMABLE: Contains: petroleum distillate. CONTENTS
INFORMATION 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). Do not spray or use on floors. Keep out of reach

of children.

OTHER HANDLING AND.... Store in a cool, dry place with adequate ventilation. Keep from

STORAGE CONDITIONS freezing.

## ----- SECTION 8 - SPECIAL PROTECTION INFORMATION ------

RESPIRATORY PROTECTION. No special requirements under normal use conditions.

VENTILATION...... No special requirements.

PROTECTIVE GLOVES..... No special requirements under normal use conditions. EYE PROTECTION...... No special requirements under normal use conditions.

OTHER PROTECTIVE...... No special requirements.

MEASURES

# ----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

COLOR..... Opaque

PRODUCT STATE..... Dispensed as a spray mist.

ODOR..... Lemon

SPECIFIC GRAVITY..... 0.828

(H2O=1)

VAPOR DENSITY (AIR=1).. Not available.

# Page 3 of 4 MSDS # 110338037

# PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999 Supersedes: 19Feb1996

SECTION 9 - PI	HYSICAL AND CHEMICAL PROPERTIES (continued)
EVAPORATION RATE (BUTYL ACETATE=1)	Not available.
VAPOR PRESSURE (mm HG).	Not available.
BOILING POINT	Not applicable.
FREEZING POINT	Not applicable.
COEFFICIENT OF WATER/OIL	Not available.
PERCENT VOLATILE BY VOLUME (%)	Not available.
VOLATILE ORGANIC COMPOUND (VOC)	
THEORETICAL VOC (LB/GAL)	1.44-1.46 lb/gal
SECTION 10 - S	STABILITY AND REACTIVITY
STABILITY	Stable
STABILITY - CONDITIONS. TO AVOID	Not applicable.
INCOMPATIBILITY	No special requirements.
HAZARDOUS DECOMPOSITION PRODUCTS	No special requirements.
HAZARDOUS POLYMERIZATION	Will not occur.
HAZARDOUSPOLYMERIZATION - CONDITIONS TO AVOID	Not applicable.
CONDITIONS TO AVOID	
SECTION 11 - 7	TOXICOLOGY INFORMATION (Also See Section 3)
LD50 (ACUTE ORAL TOX)	Greater than 5000 mg/kg (rats)
LD50 (ACUTE DERMAL TOX)	Not applicable.
LC50 (ACUTE INHALATION. TOX)	Not applicable.
EFFECTS OF CHRONIC EXPOSURE	None known.
SENSITIZATION	
CARCINOGENICITY	
REPRODUCTIVE TOXICITY	
TERATOGENICITY	
MUTAGENICITY	None known.
SECTION 12 - I	ECOLOGICAL INFORMATION
ENVIRONMENTAL DATA	Not available.
SECTION 13 - I	DISPOSAL CONSIDERATIONS
WASTE DISPOSALINFORMATION	If possible, recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.

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# PLEDGE® AEROSOL - LEMON

Date Issued: 03Feb1999 Supersedes: 19Feb1996 ------ SECTION 14 - TRANSPORTATION INFORMATION -------US DOT INFORMATION.... Buffing or polishing compounds, N.O.I. Consumer commodity, ORM-D CANADIAN SHIPPING NAME. LEMON PLEDGE TDG CLASSIFICATION.... Not applicable. Not applicable. PIN/NIP.... PACKING GROUP..... Not applicable. EXEMPTION NAME...... Consumer commodity ------ SECTION 15 - REGULATORY INFORMATION -------WHMIS CLASSIFICATION... Non-regulated. 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. EPA REGISTRATION #.... Not applicable. ------ PREPARATION INFORMATION -------Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information.

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PRINT DATE: 04May2000



# \*MATERIAL SAFETY DATA SHEET\*

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: McKesson Hydrogen Peroxide 3%, USP

**MFR #:** 23-F0010 (4 oz.) 23-D0012 (16 oz.) 23-A0013 (1 Gallon)

**DISTRIBUTED BY:** McKesson Medical-Surgical Inc.

8741 Landmark Road Richmond, VA 23228

**INFORMATION LINE:** 1-800-777-4908

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

**PRODUCT DESCRIPTION: N/A** 

**SECTION 2: COMPOSITION/INFORMATION OF INGREDIENTS** 

INGREDIENTCAS NO.%Exposure LimitsHydrogen Peroxide, USP7722-84-13%OSHA PEL—1 ppmACGIH TLV—1 ppm

SECTION 2 NOTES: N/A

**SECTION 3: HAZARDS IDENTIFICATION** 

**ROUTES OF ENTRY:** Inhalation, Skin

**POTENTIAL HEALTH EFFECTS:** 

EYES: Minimally irritating to the eyes

**SKIN:** Mildly irritating to the skin

**INGESTION:** N/A

INHALATION: Inhalation of vapors and mists irritate the nose and throat

ACUTE HEALTH HAZARDS: N/A

**CHRONIC HEALTH HAZARDS: N/A** 

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None reported

**CARCINOGENICITY** 

OSHA: N/A ACGIH: N/A NTP: N/A IARC: N/A

OTHER: N/A

SECTION 3 NOTES: N/A

**SECTION 4: FIRST-AID MEASURES** 

**EYES:** Flush with plenty of water, call physician.

**SKIN:** Flush with water.

**INGESTION:** If swallowed, get medical help or contact a poison control center right away.

INHALATION: N/A



**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A** 

SECTION 4 NOTES: N/A

**SECTION 5: FIRE-FIGHTING MEASURES** 

FLAMMABLE LIMITS IN AIR, UPPER: N/A (% BY VOLUME) LOWER: N/A

FLASH POINT: N/A METHOD USED: N/A

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

**HEALTH:** 0 **FLAMMABILITY:** 0 **REACTIVITY:** 0

OTHER: 0

HMIS HAZARD CLASSIFICATION

**HEALTH:** N/A **FLAMMABILITY:** N/A **REACTIVITY:** N/A

PROTECTION: N/A

**EXTINGUISHING MEDIA:** Flood with water or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Fire Fighters should wear Self-Contained Breathing Apparatus and full protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARDS: None** 

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxygen, which supports combustion

SECTION 5 NOTES: N/A

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

ACCIDENTAL RELEASE MEASURES: Flush with water; wear rubber boots, and rubber apron and goggles.

**SECTION 6 NOTES: N/A** 

**SECTION 7: HANDLING AND STORAGE** 

HANDLING: Do not shake bottle. Hold away from face when opening. Avoid extreme heat.

**STORAGE:** Keep tightly closed in a cool, dark place.

**OTHER PRECAUTIONS:** For external use only. Keep out of reach of children.

SECTION 7 NOTES: N/A

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** 

**VENTILATION: N/A** 

**RESPIRATORY PROTECTION:** Avoid breathing vapors.

**EYE PROTECTION:** Goggles if desired.

**SKIN PROTECTION:** Rubber or vinyl gloves if desired.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: Handle carefully; avoid spilling.



**EXPOSURE GUIDELINES: N/A** 

SECTION 8 NOTES: N/A

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

APPEARANCE & ODOR: Colorless, Clear Liquid; No odor.

PHYSICAL STATE: Liquid

pH AS SUPPLIED: N/A pH (Other): N/A BOILING POINT: 212°F MELTING POINT: N/A FREEZING POINT: N/A

VAPOR PRESSURE (mmHg): 23

@ N/A

VAPOR DENSITY (AIR = 1): N/A

@ N/A

SPECIFIC GRAVITY (H2O = 1): 1.1

@ N/A

**EVAPORATION RATE:** >1

**BASIS (=1):** N/A

**SOLUBILITY IN WATER:** Completely Soluble

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A

BY WT/ N/A BY VOL @ N/A

**VOLATILE ORGANIC COMPOUNDS (VOC): N/A** 

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

**MOLECULAR WEIGHT:** N/A

VISCOSITY: N/A @ N/A

SECTION 9 NOTES: N/A

### **SECTION 10: STABILITY AND REACTIVITY**

STABLE UNSTABLE

STABILITY: X

CONDITIONS TO AVOID (STABILITY): Keep in a cool, dark place

**INCOMPATIBILITY (MATERIAL TO AVOID):** Reducing agents, combustible materials

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Oxygen, which supports combustion

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID (POLYMERIZATION):** Extreme heat and contamination

SECTION 10 NOTES: N/A

**SECTION 11: TOXICOLOGICAL INFORMATION** 



**TOXICOLOGICAL INFORMATION: N/A** 

SECTION 11 NOTES: N/A

SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION: N/A** 

SECTION 12 NOTES: N/A

**SECTION 13: DISPOSAL CONSIDERATIONS** 

WASTE DISPOSAL METHOD: Biodegradable, non-hazardous to environment.

RCRA HAZARD CLASS: N/A
SECTION 13 NOTES: N/A

**SECTION 14: TRANSPORT INFORMATION** 

**U.S. DEPARTMENT OF TRANSPORTATION** 

PROPER SHIPPING NAME: N/A

**HAZARD CLASS:** N/A

DOT SHIPPING ID NUMBER: N/A DOT PACKING GROUP: N/A DOT LABEL STATEMENT: N/A

WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A
ID NUMBER: N/A
PACKING GROUP: N/A
LABEL STATEMENTS: N/A

**AIR TRANSPORTATION** 

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A LABEL STATEMENTS: N/A

SECTION 14 NOTES: N/A

**SECTION 15: REGULATORY INFORMATION** 

**U.S. FEDERAL REGULATIONS** 

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

311/312 HAZARD CATEGORIES: N/A

**313 REPORTABLE INGREDIENTS:** N/A

**STATE REGULATIONS:** N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES: N/A

**SECTION 16: OTHER INFORMATION** 



**OTHER INFORMATION:** N/A

**PREPARATION INFORMATION: N/A** 

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

MSDS DATE: 06/04/2013



MSDS DATE: 06/26/2013

# \*MATERIAL SAFETY DATA SHEET\*

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: McKesson Instant Hand Sanitizer

**MFR #:** 53-28032 (4 oz.) 53-28033 (8 oz.) 53-28037 (15 oz.) 53-28036-1000 (1L)

**DISTRIBUTED BY:** McKesson Medical-Surgical Inc.

8741 Landmark Road Richmond, VA 23228

**INFORMATION LINE:** 1-800-777-4908

EMERGENCY PHONE: 1-800-424-9300 (CHEMTREC)

PRODUCT DESCRIPTION: A gelled alcohol hand sanitizer for hand washing to decrease bacteria on the skin.

### **SECTION 2: COMPOSITION/INFORMATION OF INGREDIENTS**

**INGREDIENT Exposure Limits** Denatured Ethyl Alcohol 64-17-5 70% (v/v) OSHA PEL: 1000 ppm

ACHIH TLV: 1000 ppm

**SECTION 2 NOTES: N/A** 

### **SECTION 3: HAZARDS IDENTIFICATION**

**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation

**POTENTIAL HEALTH EFFECTS:** 

EYES: Possible watering, burning and redness.

SKIN: N/A

**INGESTION:** Possible gastrointestinal irritation or disturbance.

**INHALATION:** Possible giddiness or loss of consciousness.

ACUTE HEALTH HAZARDS: May cause mild eye irritation with exposure. May be harmful if swallowed.

**CHRONIC HEALTH HAZARDS: N/A** 

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

**CARCINOGENICITY** 

OSHA: ACGIH: N/A NTP: N/A IARC: N/A N/A

OTHER: N/A

SECTION 3 NOTES: N/A

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

EYES: Flush with clear water for 15 minutes.

SKIN: N/A

**INGESTION:** If patient is conscious and alert, dilute by drinking large quantities of water. Allow vomiting to occur, and then get medical attention. Always get medical attention when product is swallowed or when signs and/or symptoms are significant or persist.

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**INHALATION:** Remove to fresh air.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

**SECTION 4 NOTES: N/A** 

### **SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABLE LIMITS IN AIR, UPPER:** N/D (% BY VOLUME) LOWER: N/D

FLASH POINT: 70°F METHOD USED: SETA

**AUTOIGNITION TEMPERATURE: N/A** 

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A OTHER: N/A

**HMIS HAZARD CLASSIFICATION** 

HEALTH: 0 FLAMMABILITY: 3 REACTIVITY: 0 PERSONAL: 0

**EXTINGUISHING MEDIA:** Carbon Dioxide, alcohol-type foam, dry chemical.

**SPECIAL FIRE FIGHTING PROCEDURES:** NIOSH approved respirator should be worn by firefighters. Use water spray to cool equipment and to disperse vapors. Alcohol flames may be difficult to see because they are virtually colorless.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors from this product may travel or move by air currents to an ignition source and flash back

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide from burning.

**SECTION 5 NOTES:** Hazard Ratings: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Extreme, A = Safety Glasses, B= Safety Glasses & Gloves

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**ACCIDENTAL RELEASE MEASURES:** Small spills (< 1 gallon) may be washed down a drain or cleaned up and disposed of into a sanitary sewer system. Large spills (> 1 gallon) should be contained and collected (by absorption or vacuuming) then disposed of properly.

**SECTION 6 NOTES: N/A** 

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

HANDLING: Do not contaminate water, food or feed. Do not reuse empty containers. Keep containers clean and closed.

STORAGE: KEEP OUT OF REACH OF CHILDREN.

OTHER PRECAUTIONS: N/A
SECTION 7 NOTES: N/A

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## **ENGINEERING CONTROLS:**

VENTILATION: Mechanical Ventilation (General) - Normally Sufficient; Local Exhaust - Not normally needed

**RESPIRATORY PROTECTION:** Not needed. General ventilation is normally adequate.

EYE PROTECTION: Not needed. Avoid putting product into eyes while washing hands.

**SKIN PROTECTION:** Not needed; this product is a hand sanitizer.



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OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

**WORK HYGIENIC PRACTICES:** Do not get into eyes. May be harmful if swallowed. Protect food and drink from contamination by product.

EXPOSURE GUIDELINES: Denatured Ethyl Alcohol - OSHA PEL: 1000 ppm; ACHIH TLV: 1000 ppm

**SECTION 8 NOTES: N/A** 

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

APPEARANCE & ODOR: A clear gel with a pleasant and alcohol odor.

PHYSICAL STATE: Gel

**pH (READY-TO-USE):** 6.00—8.00

pH (Other): N/A

**BOILING POINT:** 212°F **MELTING POINT:** N/A **FREEZING POINT:** N/A

VAPOR PRESSURE (mmHg): N/A

@ N/A

DENSITY (lb./gallon): 7.15 to 7.35 lb./gal

@ 25°C

SPECIFIC GRAVITY (H2O = 1): N/A

@ N/A

**EVAPORATION RATE: N/A** 

**BASIS (=1):** N/A

**SOLUBILITY IN WATER: Complete** 

**PERCENT SOLIDS BY WEIGHT: N/A** 

**PERCENT VOLATILE: N/A** 

BY WT/ N/A BY VOL @ N/A

**VOLATILE ORGANIC COMPOUNDS (VOC):** N/A

WITH WATER: N/A LBS/GAL WITHOUT WATER: N/A LBS/GAL

**MOLECULAR WEIGHT: N/A** 

**VISCOSITY:** 6,000—10,000 cps

@ N/A

SECTION 9 NOTES: N/A

### **SECTION 10: STABILITY AND REACTIVITY**

<u>STABLE</u> <u>UNSTABLE</u>

STABILITY: X

**CONDITIONS TO AVOID (STABILITY):** Incompatible materials.

INCOMPATIBILITY (MATERIAL TO AVOID): Strong oxidizers such as Hydrogen Peroxide, Bromine and Chromic Acid.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Carbon Monoxide and Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION: Will not occur.



**CONDITIONS TO AVOID (POLYMERIZATION): N/A** 

SECTION 10 NOTES: N/A

SECTION 11: TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION: N/A** 

SECTION 11 NOTES: N/A

**SECTION 12: ECOLOGICAL INFORMATION** 

**ECOLOGICAL INFORMATION: N/A** 

SECTION 12 NOTES: N/A

**SECTION 13: DISPOSAL CONSIDERATIONS** 

**WASTE DISPOSAL METHOD:** This product is considered a RCRA Hazardous Waste (due to flammability) as identified in Federal Regulations 40 CFR 261. Dispose of product by using in accordance with label directions or in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules).

RCRA HAZARD CLASS: N/A

SECTION 13 NOTES: N/A

### **SECTION 14: TRANSPORT INFORMATION**

#### **U.S. DEPARTMENT OF TRANSPORTATION**

PROPER SHIPPING NAME: Limited Quantity or Consumer Commodity (ORM-D) in packaging sizes 1L and less

HAZARD CLASS: Flammable Liquid, 3
DOT SHIPPING ID NUMBER: UN1170

**DOT PACKING GROUP: PGII** 

DOT LABEL STATEMENT: Limited Quantity or ORM-D as packaged

WATER TRANSPORTATION

PROPER SHIPPING NAME: N/A HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A LABEL STATEMENTS: N/A

**AIR TRANSPORTATION** 

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A ID NUMBER: N/A PACKING GROUP: N/A LABEL STATEMENTS: N/A

SECTION 14 NOTES: N/A

### **SECTION 15: REGULATORY INFORMATION**

### **U.S. FEDERAL REGULATIONS**

TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA 311/312 HAZARD CATEGORIES: N/A

**SARA 313 REPORTABLE INGREDIENTS:** Contains NO hazardous ingredients subject to reporting requirements of Section 313 of SARA Title II (Emergency Planning and Community Right-to-Know Act).

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**STATE REGULATIONS: N/A** 

**INTERNATIONAL REGULATIONS: N/A** 

SECTION 15 NOTES: N/A

SECTION 16: OTHER INFORMATION

**OTHER INFORMATION: N/A** 

**PREPARATION INFORMATION: N/A** 

**DISCLAIMER:** This information relates onto to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein are to the best of the manufacturer's knowledge and belief accurate and reliable as of the date indicated. No representation warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to satisfy itself as to the suitability and completeness of such information for its own particular use. Appropriate warnings and safe-handling procedures should be provided to handlers and users.

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## **ENVIROCIDE**

## Surface Disinfectant/Decontaminant Cleaner

### 1 - IDENTIFICATION

Manufacturer:Metrex ResearchAddress:28210 Wick RoadCity, State, Zip:Romulus, MI 48174Telephone:1-800-841-1428

**Emergency:** Chemtrec 1- 800-424-9300

**Date Prepared:** August 2009

## 2 - COMPOSITION INFORMATION

## **Hazardous Ingredients**

 CAS #
 PEL
 TLV
 %

 Isopropanol
 67-63-0
 400ppm
 N/A
 10-20

 Ethylene Glycol Monobutyl Ether
 111-76-2
 50ppm
 25ppm
 1-5

### **Other Ingredients**

Water and other inert ingredients

## 3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 191 °F

Specific Gravity ( $H_20 = 1$ ): 0.970 at 25 °C Vapor Pressure (mm Hg): Similar to water Vapor Density (AIR = 1): Similar to water

Freezing/Melting Point: -10°C Solubility in Water: 100%

Appearance and Odor: Clear to amber liquid with minty odor

**pH:** 11.00 - 12.49

### 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 83°F (ASTM D-93) Closed Cup

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Carbon dioxide, dry chemical, foam

Special Fire Fighting Procedures: N/A Unusual Fire and Explosion Hazards: N/A

### **5 - REACTIVITY DATA**

**Stability:** Stable solution

Conditions to Avoid: Avoid temperatures above 120 °F and

evaporation of water.

Incompatibility (Material to Avoid): Acids

Hazardous Decomposition Byproducts: Oxides of carbon

Hazardous Polymerization: Will not occur.

# 6 - HEALTH HAZARD DATA

**Routes of Entry:** 

Skin: Not considered an irritant.

Eyes: Contact with eyes can cause reversible damage.

Inhalation: Low or mild irritation
Ingestion: May be harmful if swallowed.
Carcinogenicity - NTP: No

IARC Monographs: No OSHA Regulated Carcinogen: No

## 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Wash skin with soap and water.

 $\textbf{Eyes:} \ \ \textbf{Flush with water for 15 minutes. If irritation persists, seek}$ 

medical attention.

Inhalation: Remove to fresh air. If irritation persists, seek medical

attention.

Ingestion: Do not induce vomiting. Give large amounts of water.

Seek medical attention.

## 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Ventilate area. Wipe or absorb with inert material and transfer to suitable container for disposal in accordance with federal, state and local regulations.

Waste Disposal Method: Wastes resulting from the use of this product must be disposed of in accordance with federal, state, and local regulations. Triple rinse empty container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

**Precautions to be taken in Handling and Storing:** Store product in original sealed container at room temperature.

**Other Precautions:** Keep out of reach of children. Do not ingest. Avoid eye contact and contamination of food.

### 9 - CONTROL MEASURES

**Respiratory Protection:** Use in a well-ventilated area.

**VENTILATION:** 

Local Exhaust: Adequate ventilation to maintain recommended

exposure limit.

Mechanical (General): Should be sufficient Protective Gloves: Not required if used as directed. Eye Protection: Not required if used as directed.

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding

unnecessary exposure.

### 10 - TRANSPORTATION INFORMATION

#### DOT:

This product is not regulated by DOT for ground transportation under the aqueous alcohol exemption per 49 CFR 173.150 (E)(1)(2).

IATA, IMO:

Proper Shipping Name: Alcohol n.o.s. (Isopropanol, aqueous solution)

**Hazard Class:** 3 **Identification Number:** 1987 **Packaging Group:** III

Label: Flammable Liquid

## 11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:

H1 F2 R0

[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard; 2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.

# **Material Safety Data Sheet**



Molybdenum Tungsten Solid Metal

#### 1. Product and company identification

**Product name** Molybdenum Tungsten Solid Metal

: Furnace Construction. **Material uses** : H.C. Starck Inc.

1250 East 222nd Street. Euclid, Ohio 44117, USA

T 1.216.692.3990

Validation date : 6/3/2011.

Responsible name : Atrion Regulatory Services, Inc.

GENERAL INFORMATION - +617-584-4569 [8:00 a.m - 6:00 p.m EST] In case of emergency

CHEMTREC (US, Transportation) - 800-424-9300 [24h]

CHEMTREC (International, Transportation) - +703-527-3887 [24h]

e-mail address of person responsible for this SDS

Manufacturer

: msdsus@hcstarck.com

**Product type** Massive metal.

#### 2 **Hazards identification**

**Physical state** : Solid.

**Appearance** : Bar. / Disc. / Rod. / Scrap. / Sheet.

Odor : Odorless.

**OSHA/HCS** status This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

: CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON **Emergency overview** 

ANIMAL DATA.

Keep away from heat, sparks and flame. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Under normal conditions of use this product is non-hazardous. However, if this product is ground or otherwise processed those ingredients mentioned

in Section 3 could be generated.

**Routes of entry** : Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation : Not applicable. : Not applicable. Ingestion : Not applicable. **Eves** 

Potential chronic health effects

**Chronic effects** : Contains material that may cause target organ damage, based on animal data.

: Contains material which may cause damage to the following organs: blood, kidneys, **Target organs** 

lungs, liver, upper respiratory tract, skin, eyes.

**Medical conditions** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at

risk may be aggravated by over-exposure to this product. aggravated by overexposure

See toxicological information (section 11)

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# 3. Composition/information on ingredients

Name	CAS number	%
Molybdenum	7439-98-7	60-70
Tungsten	7440-33-7	27-33

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

Eye contact : Get medical attention if any damage to the eye is caused by the metal. Get medical

attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Cuts should be treated promptly and

covered. Get medical attention if symptoms occur.

Inhalation : Move exposed person to fresh air. Get medical attention immediately. Get medical

attention if symptoms occur.

**Ingestion** : Not applicable.

# 5. Fire-fighting measures

Flammability of the product : No specific fire or explosion hazard.

**Extinguishing media** 

Suitable : Dry powder type agents specially designed for metal powder fires.

Not suitable : Water and Carbon dioxide (CO<sub>2</sub>).

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.

Hazardous thermal decomposition products

: Decomposition products may include the following materials:

metal oxide/oxides
Molybdenum trioxide.

Special protective equipment for fire-fighters

: No special protection is required.

Special remarks on fire hazards

 Dust and Fumes from this product may be a fire and explosion hazard when exposed to high temperatures or ignition sources. Particle size and dispersion in air determine reactivity.

# 6. Accidental release measures

Personal precautions : N

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering.

**Environmental precautions Methods for cleaning up** 

: No specific hazard.

Small spill

Large spill

: Restack safely. Take care with items that are sharp or heavy.

: Restack safely. Take care with items that are sharp or heavy. Note: see section 1 for emergency contact information and section 13 for waste disposal.

6/3/2011.

#### 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Take care with items that are sharp or heavy.

### **Storage**

Store in accordance with local regulations. Unlimited shelf life in tightly closed containers.

#### 8. **Exposure controls/personal protection**

### **United States**

Ingredient	Exposure limits		
Molybdenum	ACGIH TLV (United States, Not available.		
	1/2009).		
	TWA: 3 mg/m³, (as Mo) 8 hour(s).		
	Form: Insoluble		
Tungsten	Not available.	Not available.	

### Canada

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
Molybdenum, as Mo	US ACGIH 1/2009	-	3	_	-	-	-	-	-	-	[a]
	AB 4/2009	-	3	-	-	-	-	-	-	_	[a] [b]
		-	10	-	-	-	-	-	-	-	
Molybdenum	BC 9/2009	-	10	-	-	-	-	-	-	_	[c]
		-	3	-	-	-	-	-	-	_	[b]
Molybdenum, as molybdenum	ON 8/2008	-	10	-	-	-	-	-	-	+	[c] [b] [d] [e] [3]
		-	3	-	-	-	-	-	-	+	[e]
Tungsten, as W	AB 4/2009	-	5	-	-	10	-	-	-	_	[3]
Tungsten	BC 9/2009	-	5	-	-	10	-	-	-	_	

### [3]Skin sensitization

Form: [a]Insoluble [b]Respirable [c]Inhalable [d]The notation "inhalable" following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited anywhere in the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 100 microns at 50 per cent collective efficiency. [e]The notation "respirable" following the name of an agent in this Schedule means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective device that, (a) meets the American Conference of Governmental Industrial Hygienists (ACGIH) particle size-selective criteria; and (b) has the cut point of 4 microns at 50 per cent collective efficiency.

### **Mexico**

### Occupational exposure limits

Ingredient	Exposure limits
Molybdenum	ACGIH TLV (United States, 1/2009).
	TWA: 3 mg/m³, (as Mo) 8 hour(s). Form: Insoluble
Tungsten	NOM-010-STPS (Mexico, 9/2000).
	LMPE-PPT: 5 mg/m³, (as W) 8 hour(s).
	LMPE-CT: 10 mg/m³, (as W) 15 minute(s).

### Consult local authorities for acceptable exposure limits.

**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.

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#### **Exposure controls/personal protection** 8.

**Engineering measures** 

No special ventilation requirements. The engineering controls also need to keep gas. vapor or dust concentrations below any lower explosive limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

**Hygiene measures** 

: Wash thoroughly after handling.

**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.

Use strong, cut-resistant gloves suitable for handling metals. **Hands** 

Safety eyewear complying with an approved standard should be used when a risk **Eyes** 

assessment indicates this is necessary to avoid exposure to liquid splashes, mists or

dusts.

Personal protective equipment for the body should be selected based on the task being Skin

performed and the risks involved and should be approved by a specialist before handling

this product.

#### 9. Physical and chemical properties

**Physical state** : Solid.

**Appearance** Bar. / Disc. / Rod. / Scrap. / Sheet.

Color Gray. Odor : Odorless. рH Not available. **Boiling/condensation point** : Not available. Melting/freezing point : 2610°C (4730°F)

**Relative density** : 13.1

Vapor pressure : Not available. : Not available. Vapor density **Odor threshold** Not available. **Evaporation rate** : Not available. **Partition coefficient** : Not available.

(LogKow)

#### Stability and reactivity 10.

**Chemical stability** 

: The product is stable.

Conditions to avoid

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation.

Materials to avoid

: Reactive or incompatible with the following materials:

oxidizing materials

Evolves hydrogen on contact with acids. Risk of formation of explosive hydrogen-air mixtures.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

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# 11. Toxicological information

### **Acute toxicity**

No known significant effects or critical hazards.

#### **Chronic toxicity**

No known significant effects or critical hazards.

#### **Irritation/Corrosion**

No known significant effects or critical hazards.

#### **Sensitizer**

No known significant effects or critical hazards.

#### Carcinogenicity

### **Classification**

None identified.

#### **Mutagenicity**

No known significant effects or critical hazards.

#### **Teratogenicity**

No known significant effects or critical hazards.

#### Reproductive toxicity

No known significant effects or critical hazards.

# 12. Ecological information

### **Ecotoxicity**

: This material is toxic to aquatic life.

### **Aquatic ecotoxicity**

Product/ingredient name	Result	Species	Exposure
Molybdenum	Acute LC50 800 mg/L Fresh water	Fish - Oncorhynchus mykiss - 20 mm	96 hours

#### Persistence/degradability

No known significant effects or critical hazards.

### Other adverse effects

: No known significant effects or critical hazards.

# 13. Disposal considerations

#### Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

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# 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
Mexico Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG\*: Packing group

# 15. Regulatory information

#### **United States**

**HCS Classification** 

: Target organ effects

**U.S. Federal Regulations** 

: SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Molybdenum; Tungsten

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**: Molybdenum: Immediate (acute) health hazard, Delayed (chronic) health hazard; Tungsten: Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

**Class I Substances** 

: Not listed

**Clean Air Act Section 602** 

Class II Substances

: Not listed

### **SARA 313**

Unless listed below, no non-Persistent, Bioaccumulative, and Toxic chemicals (PBTs) are present above de minimis concentrations. This product may contain minor trace amounts of inherent naturally occurring elements that are considered PBT chemicals; however, specific chemical analysis has not been performed to confirm the presence and/or concentration of these impurities: lead and mercury.

	Product name	CAS number	Concentration
Form R - Reporting requirements	Not applicable.		
Supplier notification	Not applicable.		

**State regulations** 

Massachusetts : The following components are listed: MOLYBDENUM; TUNGSTEN

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# 15. Regulatory information

: None of the components are listed.

**New Jersey** : The following components are listed: MOLYBDENUM; TUNGSTEN **Pennsylvania** : The following components are listed: MOLYBDENUM: TUNGSTEN

California Prop. 65

The California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) requires that the Governor of California publish a list of chemicals known to the State to cause cancer or reproductive harm.

No Proposition 65 chemicals are intentionally added to this product; however, components used in the manufacture of this product may contain minor trace amounts of inherent naturally occurring elements (such as, but not limited to, arsenic, beryllium, cadmium, cobalt, lead, mercury, nickel, and radionuclides) that are on the Governor's Proposition 65 list.

**US INVENTORY (TSCA)** : All components are listed or exempted.

**Canada** 

WHMIS (Canada) : Not controlled under WHMIS (Canada).

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed. **Canada inventory** : All components are listed or exempted.

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.

#### **Mexico**

Classification



### International regulations

International lists : Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. **Korea inventory**: All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

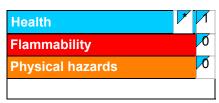
Philippines inventory (PICCS): All components are listed or exempted.

#### 16. Other information

Label requirements : CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE. BASED ON

ANIMAL DATA.

**Hazardous Material Information System (U.S.A.)** 



The customer is responsible for determining the PPE code for this material.

**National Fire Protection** 

Association (U.S.A.)

6/3/2011. 7/8

# 16. Other information



Date of issue : 6/3/2011.

Date of previous issue : 8/18/2010.

Version : 2

Indicates information that has changed from previously issued version.

#### **Notice to reader**

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of H.C. Starck Inc. The data on this sheet relates only to the specific material designated herein. The data is not a quality specification. Neither H.C. Starck Inc. nor its affiliates assumes legal responsibility for use of or reliance on this information. Suitably of use 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, H.C. Starck Inc. cannot guarantee that these are the only hazards that exist.

6/3/2011. 8/8

# **Material Safety Data Sheet**

Date last revised: 13 January 2009

### I. General Information

Chemical Name and Synonyms	Trade Name & Synonyms
Aliphatic Solvent	Mosquito Larvicide GB 1111
·	Golden Bear 1111 Mosquito Larvicide
Chemical Family	EPA Registration Number
Petroleum Hydrocarbon	8329-72
Proper DOT Shipping Name	DOT Hazard Classification
Agricultural Insecticide, N.O.I., Non-hazardous	Not regulated by the US DOT as a hazardous material
Manufacturer	Manufacturer's Phone Number
Clarke Mosquito Control Products Inc.	(630) 894-2000
Manufacturer's Address	INFOTRAC (Transportation/Spill Emergency) 1-800-535-5053
159 North Garden Avenue	Poison Control Center (Medical Emergency) 1-800-214-7753
Roselle, Illinois 60172	

II. Ingredients

Principal Hazardous Components	CAS#	OSHA -PEL-TWA	Percent
White Mineral Oil	8042-47-5	5 mg/m3 (Oil Mist)	98.7%

# III. Physical Data

Boiling Point (°F): Not Available	Density @ 20 °C:	0.853 g/mL	Lbs./gallon: 7.11	
Vapor Pressure (mm Hg.): < 0.1 @ 20	°C	Vapor Density (Air =	<b>1):</b> >1	
Solubility in Water: Negligible		<b>pH:</b> 5.14 (1% w/w sol	ution)	
Appearance: colorless, clear oily liquid		Odor: odorless		
Viscosity cSt @ 40 °C: 14.213		Evaporation Rate (water=1): Less than 0.1		

# IV. Fire & Explosion Hazard Data

Flash Point (Test Method: 166 °C (331 °F) (Cleveland)

**Extinguishing Media**: Foam, carbon dioxide, or dry chemical. Water may cause frothing. Water may be ineffective. **Special Properties**: Material can burn but will not ignite. This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, heated vapor can ignite with explosive force. Mists or sprays may burnt at temperatures below the flash point.

**Special Protection:** Dense smoke. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Cool fire exposed areas and equipment. Avoid the use of water.

### V. Health Hazard Data

Primary Route of Entry: Ingestion and, if a mist is	Toxicity:	Oral LD50 > 5,000 mg/kg
generated, inhalation		Dermal LD50 > 5,000 mg/kg

### VI. EMERGENCY FIRST AID

**Skin Contact:** Remove contaminated clothing and wash affected areas of skin with soap and water. Launder contaminated clothing before reuse.

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

**Inhalation:** Remove affected person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**Ingestion:** Call a physician or Poison Control Center immediately. **Do not induce vomiting.** Vomiting may cause aspiration resulting in chemical pneumonia. Do not give anything by mouth to an unconscious person.

**Note to Physician:** Product contains petroleum distillate. Gastric lavage is indicated if material was taken internally. Vomiting may cause aspiration pneumonia.

Date last revised: 13 January 2009

# VII. Reactivity Data

Stability:	Stable
Incompatibility	Strong oxidizers such a hydrogen peroxide, and chromic acid.
Hazardous Decomposition	Carbon monoxide & carbon dioxide, smoke, fumes, and unburned hydrocaroons from
Products	burning/combustion.

### VIII. Environmental Protection Procedures

**Spill Response:** Do not touch damaged containers or spilled material unless wearing appropriate PPE. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, sbsorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban areas, clean up spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

**Storage:** Store tightly sealed and upright in its original labeled container, in a dry locked place out of reach of children. Avoid exposure to extreme temperatures. Avoid strong oxidizers. Eliminate all sources of ignition, such as flames and sparks.

**Waste Disposal:** Do not contaminate water, food, or feed by storage or disposal. Pesticide Disposal: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility. Container Disposal: Triple rinse (or equivalent), following product label instruction. Then offer for recycling or reconditioning, or dispose of in a landfill or by other approved State and local procedures. For guidance, contact your State Water Board or Regional Office of the EPA.

Other Precautions: Do not contaminate water by cleaning of equipment or disposal or wastes.

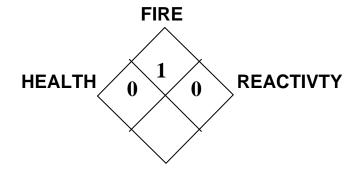
# IX. Special Protection Information

<b>Eye Protection:</b> OSHA-approved safety glasses, goggles or face shield suggested when mixing or loading tank.	<b>Skin Protection:</b> Handlers should wear protective clothing and chemical resistant gloves when mixing or loading tank. Avoid prolonged or repeated contact with skin or breathing of vapors, mist or fumes.			
Respiratory Protection: Not likely to be needed	Ventilation: Local if necessary to maintain allowable PEL			
Other: IMPORTANT. Read and observe all precautions and instructions on the label.				

# X. Additional Regulatory Information

**Section 313:** This chemical does not contain any chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### **NFPA** Rating Information:



NFPA Code Key

4 = Severe

3 = Serious

2 = Moderate

1 = Slight

0 = Minimal

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.



This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Revision Date 12/13/2012 Version 1.0 Print Date 12/13/2012

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** MURPHY SOFT WIPES WIPE WOOD CLEANER

**MULTIUSES** 

**MSDS Number** 200000031744

CAS-No. Not applicable - product is a mixture General Use A formulated multi-purpose cleaner

Company Colgate-Palmolive Co

300 Park Avenue

New York, NY 10022

**Telephone** 

**Emergency telephone** 

number

For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or

(703) 527-3887.

Medical Emergency

For MEDICAL EMERGENCIES involving this product call:

(24HR): (888) 489-3861

#### **SECTION 2. HAZARDS IDENTIFICATION**

### **Emergency Overview**

Form : Solid **Appearance** : White

Odour : Orange-like odor

**Potential Health Effects** 

Eye contact : Causes eye irritation on direct contact.

Skin contact : May cause skin irritation upon prolonged contact.

Inhalation : No adverse effects due to inhalation are expected.

Ingestion : May be harmful if swallowed in large quantities.

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

#### **Hazardous components**

#### Carcinogenicity:

Listed Carcinogens: The following components, present at a concentration of > or = 0.1%, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH



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Version 1.0 Revision Date 12/13/2012 Print Date 12/13/2012

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

#### **SECTION 4. FIRST AID MEASURES**

First aid procedures

Eye contact : Flush eyes with water at least 15 minutes. Get medical

attention if eye irritation develops or persists.

**Skin contact**: Flush skin with large amounts of water. If irritation develops

and persists, get medical attention.

**Inhalation** : Remove victim to fresh air. Get medical attention, if

symptoms persist.

Ingestion : Drink 8 ounces of clear water. Get medical attention.

### **SECTION 5. FIREFIGHTING MEASURES**

Flammable properties

Flash point : Estimated > 200 °F (> 93 °C)

Fire fighting

Suitable extinguishing

media

: Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Protective equipment and precautions for firefighters

Special protective

equipment for firefighters

: Self-contained breathing apparatus and full protective clothing

should be worn when fighting chemical fires.

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions** : Use personal protection recommended in Section 8 of the

MSDS.



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Version 1.0 Revision Date 12/13/2012 Print Date 12/13/2012

Methods for containment / Methods for cleaning up

: Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of

water.

#### **SECTION 7. HANDLING AND STORAGE**

**Storage** 

Requirements for storage areas and containers

: Store at controlled room temperature at 20-25°C (68-77°F).

### **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines** 

**Engineering Controls** : In an industrial work environment, no special precautions or

control measures are required.

Personal protective equipment

**Protective measures** : In an industrial work environment, if a splash is likely,

chemical goggles may be needed. Prolonged skin contact may require protective gloves. For consumer use, no unusual

precautions are necessary.

General Hygiene Considerations

: In an industrial work environment, avoid eye and prolonged

skin contact.

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

Form : Solid Appearance : White

**Odour** : Orange-like odor

Flash point : Estimated > 200 °F (> 93 °C)

**pH** : 7.3

**Density** : > 0.0000 g/cm3



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

Materials to avoid : Remarks: Strong oxidizing agents

Hazardous decomposition

products

Hazardous reactions

: Note: None known.

: Hazardous polymerisation does not occur.

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

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the MSDS.

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

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Further information : Any disposal practice must be in compliance with local, state

and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in

sewers, any body of water or on the ground.

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

**DOT** : Not regulated.

**TDG**: Not regulated.

IATA : Not regulated.

**IMDG**: Not regulated.



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Version 1.0 Revision Date 12/13/2012 Print Date 12/13/2012

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

### **US Regulations**

**SARA** 

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A) : FORMALDEHYDE

HYDROGEN PEROXIDE

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity

Clean Air Act

Clean Air Act 111 Standards of Performance for New Stationary

**Sources** 

**FORMALDEHYDE** 

**Clean Water Act** 

Clean Water Act Section 311 Hazardous Substances (40 CFR

117.3)

: FORMALDEHYDE

**State Regulations** 

Massachusetts Right-To-

**Know List** 

: FORMALDEHYDE

HYDROGEN PEROXIDE

TRISODIUM NITRILOTRIACETATE

New Jersey Right-To-

**Know List** 

: WATER

Sodium tallate

Pennsylvania Right-To-

**Know List** 

: WATER

Canada



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**Canadian Controlled Products Regulations:** This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

### **Other Information**

In accordance with OSHA 29 CFR 1910.1048 formaldehyde is not listed in Section 3 of this MSDS, however, formaldehyde is regulated by State and Federal regulations at varying concentrations. State and Federal information can be found above in Section 15.

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

#### **Further information**

MSDS Number : 200000031744

Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

The same that we will be a second to the sec	PRODUCT INFORMATION		
PRODUCT NAME	Microban Original Antibacterial Hand Sanitizer		
#CAS	N/A		
SUGGESTED USAGE	Wipes out germs and leaves hand clean		
MANUFACTURER	Noveko Inc., 3152 Boulevard des Entreprises, Terrebonne (Québec) Canada		
The state of the s	J6X 4J8		
No. 1 Control of the	EMERGENCY		
CENTRE ANTI-POISON /	1-800-463-5060		
POISON CENTER	in the state of th		
NOVEKO INC.	1-514-875-0606		

		SECTIO			Antonio de la companya de la company
COMPOSI	ITION AND	INFORMA	TION ON	VINGREDIENTS	######################################
INGREDIENT	CONC. (%)	#CAS	#EINECS	DL50/LD50	LC50
SDAG-3 (Anhydrous)	63-77%v/v	64-17-5	N/A	7,06 mg/kg, Rat, oral 20,000mg/kg, Rabbit, oral	31,623 ppm / 4h, Rat, inhal
OTHER NOTIFICATION	OSHA PEL	ACGIH ==	LIST		
	1000ppm	1000 ppm	MA 1; N	J 1S; PA 1; CN 2	

	SECTION 3	
HAZA	RDOUS INDENTI	FICATION
WHMIS	CLASSIFICATION	TRANSPORT OF DANGEROUS GOODS
B2 : Flammable Liquid	3	#UN/NA : 1987

	SECTION 4		
FIRST AID MEASURES			
EYES TOTAL T	Immediately flush eyes with running water for a minimum of 20 minutes -		
	hold eyelids open during flushing		
SENSITIVE SKIN AREA	Wash with mild soap and water.		
IF INHALED	Remove to fresh air		
IF SWALLOWED	Do not induce vomiting. Give plenty of water or milk to dilute. Call a		
Sley Talking	physician		

	SECTION 5
The Committee of the Co	FIRE OR EXPLOSION RISK
FLAMMABILITY COND	DITIONS CONTROL OF THE PROPERTY OF THE PROPERT
Avoid contact with ign	nition sources since product is Flammable
MEANS OF EXTINCTIO	
	Small fires: Use carbon dioxide or dry chemical
PROCEDUI	
IN THE CA	DE

# MATERIAL SAFETY DATA SHEET

OF A FIRE	Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapours; reignition is possible.  Evacuate enclosed and surrounding areas. If fumes and smoke can not be avoided, use adequate suit and breathing apparatus		
FLASH POINT	A CONTRACT OF THE PARTY OF THE	TY THRESHOLD	TEMP AUTO-IGNITION
	MINIMAL	MAXIMAL	
86.36°F/30.2°C	none	none	N/A
(Method: PMCC)			
HAZADOUS COMBUSTION MATERIAL	S	EXPLOSIVENESS.	
N/A		N/A	

SE	CTION 6
ACCIDENTAL F	RELEASE MEASURES
PERSON-RELATED SAFETY PRECAUTIONS	Wear adequate personal protective clothing and equipment
MEASURES FOR ENVIRONNEMENTAL PROTECTION	Rinse well with water
MEASURES FOR CLEANING/COLLECTING	Eliminate with water

	SECTION 7	
H	ANDLING AND STORAGE	
VENTILATION No special measures required		
HANDLING PROCEDURES	No special measures required	
STORAGE	Dry and fresh location with good ventilation	
SHIPPING	No special measures required	

	SECTION 8			
EXPOSURE CONTROLS AND PERSONAL PROTECTION				
GENERAL PROTECTIVE AND HYGIENIC	The usual precautionary measures are to be adhered to when			
MEASURES	handling chemicals.			
RESPIRATORY PROTECTION Not required				
PROTECTION OF HANDS	Not required			
EYE PROTECTION	Chemical safety goggles			
BODY PROTECTION	Not required			

1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 - 1988 -		PHYSICAL PROPERTIES
SOLID STATE	pH	SMELL AND APPEARANCE SOLUBLITY
Liquid	6.00-7.00	Colourless semi-liquid gel with water characteristic alcohol odour
BOILING POINT		FREEZING POINT DENSITY
N/A		N/A 0.8500-0.8900

# \*MATERIAL SAFETY DATA SHEET!

FLASH POINT	VAPOR PRESSURE
86.36°F/30.2°C	N/A
(Method: PMCC)	
ODOUR TRESHOLD	EVAPORATION RAIL
N/A	N/A

SI SI	ECTION 10
REAC	TIVITY DATA
INSTABILITY CONDITIONS	This product is stable in non-emergency conditions
INCOMPATIBLE PRODUCTS	N/A
REACTIVITY CONDITIONS	Stable under normal conditions
HAZARDOUS DECOMPOSITION PRODUCTS	None

	15 April 200 April 2	SECTION 11	
TOXICOLOGICAL PROPERTIES			
* C	ONTACT	SHORT TIME EXPOSURE	
SKIN	YES	May cause irritation	
EYES	YES	May cause irritation	
INHALATION	YES	May cause adverse health effects	
INGESTION	YES	May cause irritation of the respira	tory tract
AB:	SORPTION	CHRONIC EFFECTS	
SKIN	NO	None	
EYES	NO	None	
INHALATION	NO	None	
INGESTION	NO	None	
EXPOSURE LIMIT	N/A	TERATOGENICITY	N/A
IRRITANCY	N/A	MUTAGENICITY = = = =	N/A
EFFECTS ON REPRODUCTION	N/A	SYNERGESTIC MATERIALS	N/A
CANCEROGENICITY	N/A	TOXICITY IN NATURE	N/A
SENSIBILIZATION	N/A	PHOSPHATES TO THE PHOSPHATES	N/A

SECTION 12	
ECOLOGICAL INFORMATION	THE PART OF THE PARTY OF THE PA
INFORMATION ABOUT ELIMINATION AND METHOD (PERSISTENCE AND DEGRADABILITY)	N/A
ECOLOGICAL INFORMATION	N/A
GENERAL NOTES	N/A

SECTIO	N 13
DISPOSAL CONSI	DERATIONS
PRODUCT RECOMMENDATION	Dispose of in an approved landfill in accordance
	with federal, state/ provincial and local regulations.
UNCLEANED PACKAGING RECOMMENDATION	Since emptied container retains product residue, all

# MATERIAL SAFETY DATA SHEET

labeled hazard precautions must be observed.

SI	ECTION 14
TRANSPORT OF DANG	EROUS GOODS INFORMATION
LAND TRANSPORT (ADR-RID)	North America Road :
	Regulatory Considerations: 49 CFR in the USA and
	TDG in Canada
	Product in normal retail packaging and master
	packs: Consumer Commodity-ORM-D
	Label(s) Required: ORM-D (Consumer Commodity)
	European Road:
	Regulatory Considerations: ADR Regulations
	Product in normal retail packaging and master packs
	with Inner Packages (bottles) Limited to 5 L and
and the first of the period of the few of	Outer Packages (Masters) Limited to 30 kg G:
	UN Number: UN1987
	PG: III
	PSN: Alcohols, n.o.s.
	TN: SDAG-3 Anhydrous
TO A DEPOSIT OF THE A MADE OF THE ANALYSIS	Label(s) Required: UN1987 White Diamond Label
MARITIME TRANSPORT (IMDG)	Both Nationally and Internationally
	Regulatory Considerations: IMO / IMDG
	Regulations
	Product in normal retail packaging and master packs with Inner Packages (Bottles) Limited to 5 L and
	Outer Packages (Masters) Limited to 3 L and
	UN Number: UN1987
	PG: III
"太皇"斯·西斯特尔斯·西斯人名英格兰人	P.S.N: Alcohols, n.o.s.
	TN: SDAG-3 Anhydrous
	Label(s) Required: UN 1987 White Diamond Label
AIR TRANSPORT (ICAO-TI & IATA-DGR)	Both Nationally and Internationally
	Regulatory Considerations: IATA Regulation
	Product in normal retail packaging with Inner
	Packages (Bottles) Limited to 0.5L and master packs
	limited to 30 kg G:
	UN Number : ID8000
	PSN: Consumer Commodity
	Label(s) Required : Shipper & Consignee Adresses
	UN Number and PSN
	Class 9 Miscellaneous

# MATERIAL SAFETY DATA SHEET

SECTION SECTION	ON 15			
REGULATORY INFORMATION				
LABELING ACCORDING TO EU GUIDELINES	N/A			
CODE LETTER AND HAZARD DESIGNATION OF PRODUCT (WHMIS)	B2 : Flammable liquid			
NATIONAL REGULATIONS	N/A			
OTHER REGULATORY	N/A			

	SECTION 16
ADDIT	IONAL INFORMATION
NOVEKO INC, DIRECTOR, REGULATORY AFFAIRS	ERIC VILLIARD
PREPARATION DATE	11 January 2010

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# **OFF! INSECT REPELLENT II**

Date Issued: 27Jan2005		Supers	edes: 03Dec2002
US MANUFACTURER: S.C. Johnson & Son, Inc. Phone: (800) 725-6737 Racine, Wisconsin 53403 Emergency Phone: (866) International Emergency (952)	-2236 231-5406	S.C. J Phone: 1 Webs Brantf Transp CANU	N MANUFACTURER: Tohnson and Son, Limited (800) 725-6737 Iter Street Tord, Ontario N3T 5R1 Fortation Emergency: FTEC (collect) (613) 996-6666 (Control: (866) 231-5406
HAZARD RATING HM	IIS HAZARD NFP	A DISTRIE	UTED IN CANADA BY:
4-Very High 3-High 2-Moderate 1-Slight 0-Insignificant	2 Health 2 4 Flammability 4 0 Reactivity 0 Special	Phone: 1 Webs Brantf	Tohnson and Son, Limited (800) 725-6737 Ster Street Ford, Ontario N3T 5R1
SECTION 1 - P	RODUCT IDENTIFICA	ΓΙΟΝ	
PRODUCT NAME		T II	
UPC SCJ C	ODE QUANTITY	US SIZE	CANADIAN SIZE
62300 01910 1255			170 GM
SECTION 2 - IN	NGREDIENT INFORMA	TION	
INGRE	DIENT	WEIGHT%	EXPOSURE LIMIT/TOXICITY
		. 1-5	EXPOSURE LIMIT/TOXICITY  800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH
Butane (CAS# 106-97-8)	(CAS# 134-62-3)	. 1-5 . 1-5 . 1-5 . 10-30	800 ppm ACGIH/OSHA TWA
Butane (CAS# 106-97-8) Propane (CAS# 74-98-6) Isobutane (CAS# 75-28-5) N,N-Diethyl-m-toluamide Ethanol (CAS# 64-17-5)	(CAS# 134-62-3)	. 1-5 . 1-5 . 1-5 . 10-30 . 70-80	800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH TWA NOT ESTABLISHED NOT ESTABLISHED
Butane (CAS# 106-97-8) Propane (CAS# 74-98-6)  Isobutane (CAS# 75-28-5) N,N-Diethyl-m-toluamide Ethanol (CAS# 64-17-5)	CAS# 134-62-3)  EALTH HAZARDS IDE  Skin contact. Eye co E:  May cause: Moderate  May cause skin react  None known.  None known.	. 1-5 . 1-5 . 1-5 . 10-30 . 70-80 NTIFICATI ntact. Inha	800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH TWA NOT ESTABLISHED NOT ESTABLISHED 1000 ppm ACGIH/OSHA TWA  ON (Also See Section 11)
Butane (CAS# 106-97-8) Propane (CAS# 74-98-6)  Isobutane (CAS# 75-28-5) N,N-Diethyl-m-toluamide Ethanol (CAS# 64-17-5)	CAS# 134-62-3)  EALTH HAZARDS IDE  Skin contact. Eye co E:  May cause: Moderate  May cause skin react  None known.  None known.  None known.	. 1-5 . 1-5 . 10-30 . 70-80 NTIFICATI ntact. Inha	800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH TWA NOT ESTABLISHED NOT ESTABLISHED 1000 ppm ACGIH/OSHA TWA  ON (Also See Section 11) Lation. Te cases.
Butane (CAS# 106-97-8) Propane (CAS# 74-98-6)  Isobutane (CAS# 75-28-5) N,N-Diethyl-m-toluamide Ethanol (CAS# 64-17-5)	CAS# 134-62-3)  EALTH HAZARDS IDE  Skin contact. Eye co E:  May cause: Moderate  May cause skin react  None known.  None known.  None known.	. 1-5 . 1-5 . 10-30 . 70-80 NTIFICATI ntact. Inha	800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH TWA NOT ESTABLISHED NOT ESTABLISHED 1000 ppm ACGIH/OSHA TWA  ON (Also See Section 11)
Butane (CAS# 106-97-8) Propane (CAS# 74-98-6)  Isobutane (CAS# 75-28-5) N,N-Diethyl-m-toluamide Ethanol (CAS# 64-17-5)	CAS# 134-62-3)  EALTH HAZARDS IDE  Skin contact. Eye co E:  May cause: Moderate  May cause skin react  None known.  None known.  None known.	. 1-5 . 1-5 . 10-30 . 70-80 NTIFICATI ntact. Inha	800 ppm ACGIH/OSHA TWA 1000 ppm OSHA PEL , 2500 ppm ACGIH TWA NOT ESTABLISHED NOT ESTABLISHED 1000 ppm ACGIH/OSHA TWA  ON (Also See Section 11) Lation. Te cases.

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# **OFF! INSECT REPELLENT II**

Date Issued: 27Jan2005	Supersedes: 03Dec2002
SECTION 4 - F	IRST AID MEASURES (continued)
	No special requirements. Contact nearest poison control center.
SECTION 5 - F	IRE AND EXPLOSION INFORMATION
FLAMMABLE LIMITS AUTOIGNITION TEMPERATURE EXTINGUISHING MEDIA SPECIAL FIREFIGHTING	Not available.  Foam. CO2. Dry chemical. Water fog.  Fight fire from maximum distance or protected area. Cool and use
PROCEDURES  UNUSUAL FIRE AND EXPLOSION HAZARDS	caution when approaching or handling fire-exposed containers. Fire fighters should wear self-contained breathing apparatus and protective clothing.  Aerosol product - Containers may rocket or explode in heat of fire.
SECTION 6 - P	REVENTIVE RELEASE MEASURES
	Eliminate all ignition sources. 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	WARNING: Harmful if swallowed. Avoid contact with eyes and lips. Do not allow children to rub eyes if hands have been treated. FLAMMABLE: 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).
OTHER HANDLING AND STORAGE CONDITIONS	Keep out of reach of children.
SECTION 8 - S	PECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION. VENTILATION PROTECTIVE GLOVES EYE PROTECTION OTHER PROTECTIVE MEASURES	No special requirements under normal use conditions. Not applicable. No special requirements under normal use conditions. No special requirements under normal use conditions. No special requirements.
SECTION 9 - P	HYSICAL AND CHEMICAL PROPERTIES
COLOR	Clear
PRODUCT STATE  ODOR  pH  ODOR THRESHOLD  SOLUBILITY IN WATER  SPECIFIC GRAVITY  (H2O=1)	Not applicable. Not available. Appreciable
VAPOR DENSITY (AIR=1) EVAPORATION RATE (BUTYL ACETATE=1)	

Page 3 of 4 MSDS # 111812001

# **OFF! INSECT REPELLENT II**

Date Issued: 27Jan2005	Supersedes: 03Dec2002
SECTION 9 - P.	HYSICAL AND CHEMICAL PROPERTIES (continued)
VAPOR PRESSURE (mm HG). BOILING POINT FREEZING POINT COEFFICIENT OF	Not available. Not available.
WATER/OIL PERCENT VOLATILE BY VOLUME (%)	Not available.
VOLATILE ORGANIC COMPOUND (VOC)	
THEORETICAL VOC (LB/GAL)	Not available.
SECTION 10 - S	STABILITY AND REACTIVITY
STABILITYSTABILITY - CONDITIONS. TO AVOID	
HAZARDOUS DECOMPOSITION PRODUCTS	Avoid contact with: Rubber, Plastic. When exposed to fire: Produces normal products of combustion.
HAZARDOUS	
SECTION 11 - '	TOXICOLOGY INFORMATION (Also See Section 3)
LD50 (ACUTE ORAL TOX) LD50 (ACUTE DERMAL TOX) LC50 (ACUTE INHALATION. TOX)	Not available.
EFFECTS OF CHRONIC EXPOSURE	None known.
SENSITIZATIONCARCINOGENICITYREPRODUCTIVE TOXICITY TERATOGENICITYMUTAGENICITY	None known. None known.
SECTION 12 - I	ECOLOGICAL INFORMATION
ENVIRONMENTAL DATA	Not available.
SECTION 13 - 1	DISPOSAL CONSIDERATIONS
WASTE DISPOSAL INFORMATION	If possible, recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.
SECTION 14 - '	TRANSPORTATION INFORMATION
US DOT INFORMATION	Not applicable.

### MATERIAL SAFETY DATA SHEET

Page 4 of 4 MSDS # 111812001

# **OFF! INSECT REPELLENT II**

Date Issued: 27Jan2005	Supersedes: 03Dec2002
SECTION 14 - T	TRANSPORTATION INFORMATION (continued)
CANADIAN SHIPPING NAME. TDG CLASSIFICATION PIN/NIP PACKING GROUP EXEMPTION NAME	Not applicable. Not applicable.
SECTION 15 - F	REGULATORY INFORMATION
WHMIS CLASSIFICATION	Non-regulated.
	roduct are listed or are excluded from listing on the U.S. Toxic SCA) Chemical Substance Inventory.
<del>-</del>	roduct comply with the New Substances Notification requirements nmental Protection Act (CEPA).
This product is not subje	ct to the reporting requirements under California's Proposition 65.
SECTION 16 - C	OTHER INFORMATION
ADDITIONAL INFORMATION. EPA REGISTRATION #	NFPA 30B Level 2 Aerosol. PCP NO. 22708 4822-380
PREPARATION	INFORMATION
PREPARED BY	Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information.

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond 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.

PRINT DATE: 130ct2005

Doc. No: QD015-05

10/03/01 Rev 1 Office Depot Duster Approved by: Frank L.

# MATERIAL SAFETY DATA SHEET

# OFFICE DEPOT CLEANING DUSTER

\*\*SECTION I\*\* CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:

OFFICE DEPOT CLEANING DUSTER 0811563

Product Number:

Chemical Name:

1,1,1,2-Tetrafluoroethane QPL, INC.

Manufacturer: Address:

800 S. ACADIA ROAD

THIBODAUX, LA 70301

Telephone Number: Web Site:

(985) 449-0660 www.qplchem.com

Emergency numbers;

Chemtree Control Center (Louisiana) (800): 424-9300 (800) 256-9822

Date Prepared:

8/00

Revised 01/03

#### \*\*SECTION II\*\* HAZARDOUS COMPONENTS

Case No. Hazardous Components:

1,1,1,2-Tetrafluoroethane

811-97-2

Reactivity:

Not Est.

PEL (OSHA)

Not Est.

Notes: (1) NPCA-HMIS Rating:

Health:

Flammability:

1 0

0

X (See Section VIII)

This Chemical is not listed as a Carcinogen or potential Carcinogen with: NTP Status, IARC Status or OSHA list.

#### \*\*SECTION III\*\* PHYSICAL DATA

**Boiling Point:** 

-15.7\*F (@ 736 mm Hg

Personal Protection:

Solubility in water:

Slight

Vapor pressure:

96 psia (a) 70\*F

Volatiles (% by weight):

100%

Vapor Density (Air = 1): Density:

1.21 g/cc @ 77\*F

Description: A colorless, clear liquefied gas with a slight ethereal odor.

#### \*\*SECTION IV\*\* FIRE & EXPLOSION HAZARDS

Flash Point:

None

Method Used: TOC

Flammable Limits: NOT APPLICABLE

Extinguishing Media: As appropriate for combustibles in area

Special fire fighting procedures: Self-contained breathing apparatus. Positive pressure type,

Unusual fire and explosion hazards: None (material itself is not flammable)

#### \*\*SECTION V\*\* REACTIVITY DATA

Stability: Yes

Incompatibility (Materials to Avoid): Strong oxidizers and high temperatures above 130\*F. Strong acids or bases. Alkaline earth materials.

<u>Hazardous Polymerization</u>: Will not occur.

Conditions to Avoid: High temperatures and sources of ignition such as sparks.

Hazardous Decomposition Products: Source - High Heat, forming hydrofluoric acid and possible carbonyl fluorine.

Doc. No: QD015-05

10/03/01 Rev. I Office Depot Duster Approved by: Frank L.

#### \*\*SECTION VI\*\* HEALTH HAZARD DATA

Primary Routes of Entry: Effects of Overexposure:

Eye: Acute - irritation and redness, tearing and blurred vision.

Inhalation: Acute - excessive inhalation may cause temporary alteration of the heart's electrical activity with irregular pulse,

palpitations or inadequate circulation. Intentional misuse can be fatal.

Skin: Prolong and excessive skin contact may cause frostbite.

Incestion: Not considered a potential route of entry. (Do not administer adrenaline following exposure.)

# EMERGENCY / FIRST AID PROCEDURES:

If in Eyes: Flush with water for 15 minutes. Seek medical help if irritation persists.

If on Skin: Wash with soap and water. If frostbit treat by warming affected area.

If Swallowed: Not considered a potential route of entry.

If inhaled: Remove to fresh air. Administer artificial respiration, if needed. If breathing is difficult give oxygen. Call a physician.

Note to Physician: Because of possible disturbances of cardiarhythm, catecholamine drugs, such as epinephrine, should be considered only as a last resort in a life threatening emergencies.

# \*\*SECTION VII\*\* PRECAUTIONS FOR SAFE HANDLING AND USE

If Material is released or spilled: Ventilate area – especially low areas where heavy vapors may collect. Protect from open flames. Waste Disposal Method: \*\*DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS\*\* Handling/Storing Precautions: Store in a dry area, away from heat sources or high ambient temperature. OK to store at freezing temperatures.

Other Precautions: Keep away from children. For professional or industrial use only.

# \*\*SECTION VIII\*\* SPECIAL PROTECTION DATA

Respiratory: No respiratory protection is needed under normal outdoor or well-ventilated working conditions.

Ventilation: Provide normal ventilation for standard manufacturing procedures.

Eves: Splash proof safety glasses/goggles are recommended. See safety consultant.

Gloyes: Butyl rubber or neoprene is recommended for prolonged contact.

# \*\*SECTION IX\*\* SPECIAL PRECAUTIONS

Aquatic Toxicity: Not Applicable

Shipping Information:

Proper Shipping Name:

1,1,1,2-tetrafluoroethane

Hazard Class:

UN#: 3

Non-flammable gas, 2.2 3159

DOT/IATA Label:

Non-flammable Gas

Air Freight Method:

DOMESTIC (DOT) & INTERNATIONAL AIR (IATA)

Passenger - Package max. Wt. 75kg Cargo - Package max. Wt. 150kg

NA = not applicable

ND = not determined

> = Greater than

circumstances.

UNK = unknown

NOTE: The information accumulated herein is believed to be accurate but in not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their

Page 2 of 2

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### MATERIAL SAFETY DATA SHEET

# 1. Product and Company Identification

Product Name OLD ENGLISH® Furniture Wipes

**UPC CODES** Refer to Section 16

CAS # Mixture

Product use Furniture Polish
Distributed by Reckitt Benckiser

Morris Corporate Center IV 399 Interpace Parkway P.O. Box 225

Parsippany, NJ 07054-0225

In Case of Emergency: 1-800-228-4722 Transportation Emergencies: 24 Hour Number:

North America: CHEMTREC: 1-800-424-9300 Outside North America: 1-703-527-3887

LEGEND
HMIS/NFPA

Severe 4
Serious 3
Moderate 2
Slight 1
Minimal 0





# 2. Hazards Identification

Emergency overview CAUTION

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes.

DO NOT PUSH FINGER THROUGH OPENING. Do not use on floors as it may leave them slippery.

KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** None expected during normal conditions of use.

May cause eye irritation upon direct contact with the eyes.

**Skin** None expected during normal conditions of use.

Not expected to be a skin sensitizer.

**Inhalation** None expected during normal conditions of use.

**Ingestion** Health injuries are not known or expected under normal use.

Target organs Respiratory system. Eyes. Skin.

**Chronic effects**The finished product is not expected to have chronic health effects.

Signs and symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

# 3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Ethanol	64-17-5	2.5 - 10

# 4. First Aid Measures

First aid procedures

**Eye contact**If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.

**Skin contact** If on skin, wash with soap and water. If irritation persists or reaction develops, get

medical attention.

**Inhalation** Move to fresh air.

Ingestion Rinse mouth with water. Contact a physician or Poison Control Center.

Take label or product name number with you when seeking medical attention.

Notes to physician

Contains denatured ethanol; ingestion may result in ethanol poisoning.

General advice If you feel unwell, seek medical advice (show the label where possible). 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. Avoid contact with

eyes and skin. Keep out of reach of children.

# 5. Fire Fighting Measures

Flammable properties

The flashpoint of the liquid within this product is > 93.3°C (200°F) (Tagliabue).

Extinguishing media

Suitable extinguishing media Dry chemical. Carbon dioxide.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

Not available

the chemical Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

apparatus.

**Hazardous combustion products** 

May include and are not limited to: Oxides of carbon.

**Explosion data** 

Ethanol

Sensitivity to mechanical impact Not available
Sensitivity to static discharge Not available

### 6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not

touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak.

Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements

or confined areas.

**Methods for cleaning up** Pick up and discard towel. Before attempting clean up, refer to hazard data given above.

Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original

containers for re-use.

# 7. Handling and Storage

Handling CAUTION

May cause eye irritation. Avoid contact with eyes.

Use good industrial hygiene practices in handling this material.

When using do not eat or drink.

Wash hands before breaks and immediately after handling the product.

Use according to package label instructions.

Storage Store in original container in a cool, secure area inaccessible to children and pets. Keep

away from heat, open flames or other sources of ignition.

Store containers upright and closed.

# 8. Exposure Controls / Personal Protection

# Exposure limits Ingredient(s) Exposure Limits

TWA: 1000 ppm STEL: 1000 ppm **OSHA-PEL** 

TWA: 1000 ppm

**ACGIH-TLV** 

**Engineering controls**General ventilation normally adequate.

Personal protective equipment

**Eye / face protection** Not normally required under normal use conditions.

Emergency responders should wear full eye and face protection.

**Hand protection** No special requirements under normal use conditions.

Emergency responders should wear impermeable gloves.

Skin and body protection Usual safety precautions while handling the product will provide adequate

protection against this potential effect.

Follow label directions carefully.

**Respiratory protection** No special requirements under normal use conditions.

Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid

inhalation of vapours generated by this product during a spill or other clean-up

operations.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do

not eat or drink.

Washing with soap and water after use is recommended as good hygienic practice to

prevent possible eye irritation from hand contact.

# 9. Physical and Chemical Properties

Appearance Clear. Liquid saturated on wipe

Color Turbid liquid

Form Pre-moistened towelette.

Odor Lemon.
Odor threshold Not available
Physical state Liquid
pH 8 - 9 (Liquid)

pH 8 - 9 (Liquid)
Freezing point Not available
Boiling point Not available
Pour point Not available
Evaporation rate Not available

Flash point > 200 °F (> 93.33 °C) (Liquid)

Auto-ignition temperature Flammability limits in air, lower, %

by volume

Not available Not available

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure
Vapor density
Specific gravity
Octanol/water coefficient
Solubility (H2O)
VOC (Weight %)
Not available
Not available
Not available
Not available

Pour point Not available
Viscosity Not available

# 10. Stability and Reactivity

Chemical stability Stable under recommended storage conditions.

Conditions to avoid DO NOT MIX WITH BLEACH or use in conjunction with other household products.

Incompatible materials Oxidizers.

Hazardous decomposition products May include and are not limited to: Oxides of carbon.

Possibility of hazardous reactions Hazardous polymerization does not occur.

# 11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Ethanol 31623 ppm rat

#20685 Page 3 of 7 Issue date 28-Jul-2010

Ingredient(s) LD50

Ethanol 3450 mg/kg mouse; 7060 mg/kg rat

Effects of acute exposure

**Eye** None expected during normal conditions of use.

May cause eye irritation upon direct contact with the eyes.

**Skin** None expected during normal conditions of use.

Not expected to be a skin sensitizer.

**Inhalation** None expected during normal conditions of use.

IngestionHealth injuries are not known or expected under normal use.SensitizationThe finished product is not expected to have chronic health effects.Chronic effectsThe finished product is not expected to have chronic health effects.CarcinogenicityThe finished product is not expected to have chronic health effects.

**ACGIH - Threshold Limit Values - Carcinogens** 

Ethanol 64-17-5 A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans

MutagenicityThe finished product is not expected to have chronic health effects.Reproductive effectsThe finished product is not expected to have chronic health effects.TeratogenicityThe finished product is not expected to have chronic health effects.

Synergistic Materials Not available

# 12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns

**Ecotoxicity - Freshwater Fish Species Data** 

Ethanol 64-17-5 96 Hr LC50 Oncorhynchus mykiss: 12.0-16.0 ml/L [static]; 96 Hr LC50 Pimephales

promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400-15100 mg/L

[flow-through]

**Ecotoxicity - Water Flea Data** 

Ethanol 64-17-5 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800

mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Environmental effects

Aquatic toxicity

Persistence / degradability

Bioaccumulation / accumulation

Partition coefficient

Mobility in environmental media

Chemical fate information

Not available

Not available

Not available

# 13. Disposal Considerations

Waste codes Not available

**Disposal instructions** Dispose of wipe in trash after use.

Do not reuse empty container. Rinse container and offer for recycling where facilities

exist.

Dispose in accordance with all applicable regulations.

Waste from residues / unused

products

Not available

Contaminated packaging Not available

# 14. Transport Information

UN/ID N.o. Not applicable

U.S. Department of Transportation (DOT): Classification: Not regulated

Proper shipping name Not applicable
U.S. DOT Hazard Class Not applicable
Subsidiary Risk Not applicable
Packing group Not applicable

DOT RQ (lbs) Not applicable ERG NO Not applicable

Transportation of Dangerous Goods (TDG - Canada): Classification: Not regulated

Proper shipping name Not applicable
Status Not applicable
Packing group Not applicable

IMDG (Marine Transport): Classification: Not regulated

Proper shipping name Not applicable
Class Not applicable
Subsidiary Risk Not applicable
Packing group Not applicable
IMDG Page Not applicable

Marine pollutantNot applicableEMSNot applicableMFAGNot applicable

MFAG Not applicable

Maximum Quantity Not applicable

IATA/ICAO (Air): Classification: Not regulated

Proper shipping name Not applicable
Class Not applicable
Subsidiary Risk: Not applicable
Packing group Not applicable

Maximum Quantity Not applicable

# 15. Regulatory Information

**US Federal regulations** 

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.

CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration: Product is compliant with CPSC regulatory guidelines; a

specific registration is not required for this product.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available
Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - Massachusetts - Right To Know List

Ethanol 64-17-5 Teratogen

U.S. - Minnesota - Hazardous Substance List

Ethanol 64-17-5 Present U.S. - New Jersey - Right to Know Hazardous Substance List Ethanol 64-17-5 sn 0844

U.S. - Pennsylvania - RTK (Right to Know) List

Ethanol 64-17-5 Present

U.S. - Rhode Island - Hazardous Substance List

Ethanol 64-17-5 Toxic; Flammable

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Ye

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### 16. Other Information

**Disclaimer** This product should only be used as directed on the label and for the purpose intended.

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.

Further information 62338-75821 - OLD ENGLISH® Furniture Wipes - 25 ct. - 382040

Issue date28-Jul-2010Effective date31-Jul-2010

#20685 Page 6 of 7 Issue date 28-Jul-2010

Prepared by Other information

Reckitt Benckiser Regulatory Department 800-333-3899

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

### +-----+ | MATERIAL SAFETY DATA SHEET | +------

+-----

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

+-----

PRODUCT NAME : GLOSS WHITE 12 OZ 0002737

IDENTIFICATION NUMBER: 1992 830

DATE PRINTED : 03/29/01

PRODUCT USE/CLASS : Painter's Touch/aerosol

SUPPLIER: MANUFACTURER:

Rust-Oleum Corporation
Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, Illinois
Vernon Hills, Illinois

60061 USA 60061 USA

(847) 367-7700 Rust-Oleum Corp. (847) 367-7700 Rust-Oleum Corp. 8:00 AM-4:30 PM/24-hr Emer.Assist 8:00 AM-4:30 PM/24-hr Emer.Assist

PREPARER: MTM, PHONE: 847-816-2445, PREPARE DATE: 03/28/01

+							 +
	SECTION	2 -	COMPOSITION	/INFORMATION	ON	INGREDIENTS	

+-----+ WT/WT % ITEM ----- CHEMICAL NAME ----- CAS NUMBER LESS THAN

01	LIQUIFIED PETROLEUM GAS	68476-85-7	30.0 %
02	ACETONE	67-64-1	20.0 %
03	XYLENE	1330-20-7	20.0 %
04	Titanium Dioxide	13463-67-7	15.0 %
05	TOLUENE	108-88-3	5.0 %
06	ETHYLBENZENE	100-41-4	5.0 %
07	VM&P NAPHTHA	64742-89-8	5.0 %

		EXPOSURE	LIMITS			
	ACGI	OSHA			MEXICAN	
ITEM	TLV-TWA	TLV-STEL	PEL-TV	VΑ	PEL-CEILING	TLV-TWA

01	1000 PPM	N.E.	1000 PPM	N.E.	N.E.	NO
02	750 PPM	1000 PPM	750 PPM	N.E.	N.E.	NO
03	100PPM	150PPM	100PPM	N.E.	100 PPM	YES

SKIN

04	10  mg/m3	N.E.	15  mg/m3	N.E.	N.E.	NO
05	50 PPM	N.E.	200 PPM	300 PPM	N.E.	YES
06	100 PPM	125 PPM	100 PPM	N.E.	N.E.	YES
07	300 PPM	N.E.	300 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

					(Continued on	Page	2)
	Product:	1992	830	Preparation Date: 03/28	3/01	Page	2
   			SECTION	3 - HAZARDS IDENTIFICATIO	ON		+
r — —							

\*\*\* EMERGENCY OVERVIEW \*\*\*: Harmful if inhaled. Harmful if swallowed. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. May effect the brain or nervous system causing

dizziness, headache or nausea. Contents Under Pressure.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes eye irritation.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing vapors or mists. High vapor concentrations are irritating to the eyes, nose, throat and lungs.

EFFECTS OF OVEREXPOSURE - INGESTION: Substance may be harmful if swallowed. Aspiration hazard if swallowed; can enter lungs and cause damage.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. 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 damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities.

PRIMARY ROUTE(S) OF ENTRY: SKIN ABSORPTION INHALATION EYE CONTACT

+-----+

#### SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Hold eyelids apart and flush with plenty of water for at lease 15 minutes. Get medical attention.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - 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.

(Continued on Page 3)

Product: 1992 830 Preparation Date: 03/28/01 Page 3

SECTION 5 - FIRE FIGHTING MEASURES |

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AUTOIGNITION TEMPERATURE: ND

EXTINGUISHING MEDIA: DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. Closed containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES: Evacuate area and fight fire from a safe distance.

-	
	SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate the area, remove all sources of ignition and ventilate well. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as

UPPER EXPLOSIVE LIMIT: 12.8 %

sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

+	 			-+
	SECTION 7 -	- HANDLING AND	STORAGE	

HANDLING: Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapor or mist.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 degrees F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 degrees F.

Product: 1992 830 Preparation Date: 03/28/01 Page 4

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace

conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

VAPOR DENSITY : Is heavier than air BOILING RANGE : -34 - 285 F

ODOR : Solvent

ODOR THRESHOLD : ND EVAPORATION RATE: Is faster than Ether APPEARANCE : Liquid

SOLUBILITY IN H2O : Slight

FREEZE POINT : ND VAPOR PRESSURE : ND SPECIFIC GRAVITY: 0.9116 ph @ 0.0 % : ND

PHYSICAL STATE : LIQUID VISCOSITY : ND

COEFFICIENT OF WATER/OIL DISTRIBUTION: ND

(See Section 16 for abbreviation legend)

+----+ SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid temperatures above 120 degrees F. Avoid all possible sources of ignition.

(Continued on Page 5) Product: 1992 830 Preparation Date: 03/28/01 +----+

SECTION 10 - STABILITY AND REACTIVITY

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition it emits acrid smoke and irritating fumes.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

+	_	
	XICOLOGICAL PROPERTIES	3
COMPONENT TOXICOLOGICAL INFORMATIO	DM:	
CHEMICAL NAME		
LIQUIFIED PETROLEUM GAS		
ACETONE		RAT 50100MG/M^3 8H
XYLENE Titanium Dioxide		RAT 5000PPM 4HR 6820mg/m3 Rats
TOLUENE	RAT 5000MG/KG	_
ETHYLBENZENE	RAT 3500MG/KG	
VM&P NAPHTHA	N.D.	N.D.
+		
SECTION 12 - EC	COLOGICAL INFORMATION	
Section 5.5.2 of the Toxic Substant		
SECTION 13 - DI	SPOSAL CONSIDERATIONS	
DISPOSAL METHOD: Dispose of mater federal regulations and ordinances sewer systems.	s. Do not allow to en	nter storm drains or
SECTION 14 - TRAN	SPORTATION INFORMATIO	
DOT PROPER SHIPPING NAME: AEROSOL DOT TECHNICAL NAME:		
		~
Product: 1992 830 Prep	paration Date: 03/28/0	
SECTION 14 - TRAN	SPORTATION INFORMATIO	ı

DOT HAZARD CLASS: 2.1 HAZARD SUBCLASS: RESP. GUIDE PAGE: 126 DOT UN/NA NUMBER: UN1950 PACKING GROUP: +----+ SECTION 15 - REGULATORY INFORMATION U.S. FEDERAL REGULATIONS: AS FOLLOWS -OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200) CERCLA - SARA HAZARD CATEGORY: This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: ----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN XYLENE 1330-20-7 20.0 % 5.0 % TOLUENE 108-88-3 ETHYLBENZENE 100-41-4 5.0 % U.S. STATE REGULATIONS: AS FOLLOWS -NEW JERSEY RIGHT-TO-KNOW: The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME ----- CAS NUMBER NOT AVAILABLE RESIN SOLUTION

#### PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----CAS NUMBER NOT AVAILABLE RESIN SOLUTION

					(Con	tinued on	Page	7)
Product	: : 1992	830	Preparation	n Date:	03/28/01		 Page	7
+   +	S	ECTION 1	5 - REGULATO	RY INFOR	MATION			+   +
	e chemica e state o	l(s) not	ed below and rnia to cause			_		·
 TOLUENE	CHEMICAL	NAME		CAS NUM: 108-88-				
INTERNATION	AL REGULA	TIONS: A	S FOLLOWS -					
			s been prepar or use of the		_	with Con	trolle	ed
CANADIAN WHI	MIS CLASS	: A B5 D	2A D2B					
+   +		SECTIO	N 16 - OTHER	INFORMA'	TION			į
HMIS RATINGS	S - HEALT	н:	FLAMMABILI:	TY:	REACTIV	ITY:		
PREVIOUS MSI	DS REVISI	ON DATE:	06/28/00					
	A Not D Not		ole, N.E No ed	ot Estab	lished,			
: No Inform	mation.							

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

\_\_\_\_\_



According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

## SECTION 1: Identification

**Product identifier** 

Product name pH Indicator Solution (Phenol Red)

Product number

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

> 31 Loveton Circle Sparks, MD 21152 Phone: (410) 472-4340

Emergency phone: (800) 837-8548

## SECTION 2: Hazard(s) identification

Physical hazards No data available **Health hazards** No data available **Environmental hazards** No data available

Label elements

No data available Hazard pictograms Signal word No data available Hazard statements No data available

Precautionary statements

No data available Prevention No data available Response

Storage Keep tightly capped. Store out of direct sunlight between 36°F-85°F.

Disposal No data available

Hazards not otherwise

Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water. If ingested, contact physician or local poison control center. Treat symptoms as needed.

## SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	90–99
Trade secret	Not available	Not available	0.1–5
Other components below reportable levels	V		0.1–5

## SECTION 4: First-aid measures

#### If inhaled

classified

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

## In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

## If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice.

> SDS US Page 1 of 5

#### Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

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

Provide general supportive measures and treat symptomatically.

#### **General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5: Firefighting measures

**Extinguishing media** 

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing Do not use a heavy water stream. Use of heavy stream of water may spread fire.

media

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion Carbon oxides and sulfur oxides

products

Advice for firefighters

Precautionary measures

Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental release measures

## Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

## **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

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

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recover, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and storage

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

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

## Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure controls/personal protection

#### Occupational exposure limits

## **ACGIH Threshold Limit Values**

Components

Trade secret

Compensite	. , , , ,	raido	. •
Trade secret	TWA	20 mg/m <sup>3</sup>	Inhalable fraction and vapor
OSHA Table Z-1 Limits for Air Contaminants (2	29 CFR 1910.1000)		
Components	Туре	Value	Form

Value

22 mg/m<sup>3</sup>

Form

Not applicable

Not applicable

Type

PEL

5 ppm

Biological limit values No biological exposure limits noted for the ingredient(s)

## **Exposure guidelines**

**ACGIH Threshold Limit Values: Skin designation** 

Trade secret Can be absorbed through skin

California OELs: Skin designation

Trade secret Can be absorbed through skin Minnesota Hazardous Substance: Skin designation

Trade secret Skin designation applies

OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Trade secret Can be absorbed through skin

Tennessee OELs: Skin designation

Trade secret Can be absorbed through skin

**Exposure controls** 

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. Eyewash facilities and emergency shower must be available when handling this product.

Personal protective

equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

## SECTION 9: Physical and chemical properties

## Information on basic physical and chemical properties

Physical state Liquid
Form Liquid
Color Clear, red
Odor Phenolic

Odor threshold No data available

pH 7.7

No data available Evaporation rate Melting point No data available Freezing point No data available Boiling point 212°F (100°C) Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available No data available Flammability (solid, gas) 17 mm Hg Vapor pressure

Relative vapor density 0.6

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

No data available

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

## SECTION 10: Stability and reactivity

**Reactivity** Hazardous reactions will not occur under normal conditions.

Chemical stability Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Oxidizing agents

## SECTION 11: Toxicological information

Information on toxicological

effects

May cause irritation to the respiratory system Inhalation Skin contact May cause slight or mild transient irritation Eve contact May cause slight or mild transient irritation

Ingestion May cause irritation, nausea, vomiting, and diarrhea

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

**Acute toxicity** This product is not classified as an acute toxicity hazard. See below for individual ingredient acute

toxicity data.

Components **Species Test Results** 

Trade secret

Acute

Dermal

 $LD_{50}$ 

Rabbit

2050 mg/kg

Oral

 $LD_{50}$ 

Rat

242 mg/kg

Respiratory or skin

sensitization

No data available

Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity No data available

(single exposure)

Specific target organ toxicity No data available

(repeated exposure)

**Aspiration hazard** No data available

## SECTION 12: Ecological information

This 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.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

No data available

## SECTION 15: Regulatory information

No data available

## SECTION 16: Other information

**NFPA Rating** 

Health hazard 0 0 Fire hazard Reactivity 0 Specific N/A

#### Disclaimer

The information in the Safety Data Sheet is offered for your consideration and guidance for safe handling, use, storage, transportation, disposal, and release of this product and is not considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.

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Issue date:

June 2015

Last revisions

June 2016

Page 1 of 4 MSDS # 126718005

## PLEDGE® DUST & ALLERGEN - UNSCENTED DRY CLOTHS

Date Issued: 21Jul2005		Supersedes: 04Dec2002	
US MANUFACTURER: S.C. Johnson & Son, Inc Phone: (800) 725-6737 Racine, Wisconsin 53403 Emergency Phone: (866) International Emergency (952)	3-2236 231-5406	CANADIAN MANUFACTURER: S.C. Johnson and Son, Phone: (800) 725-6737 1 Webster Street Brantford, Ontario N3T Transportation Emergen CANUTEC (collect) (6 Poison Control: (8	5R1 cy: 13) 996-6666
HAZARD RATING HM	MIS HAZARD NFPA	DISTRIBUTED IN CANADA B	
4-Very High	0 Health 0	S.C. Johnson and Son, Phone: (800) 725-6737 1 Webster Street Brantford, Ontario N3T	
SECTION 1 - P	RODUCT IDENTIFICATI	ON	
PRODUCT NAME	No significant changes Household: Cleaning pr	oduct	
SECTION 2 - II	NGKEDIENT INFORMAT	ON	
INGRE	EDIENT	WEIGHT% EXPOSURE LIMIT	/TOXICITY
Film agent		1-5 5 mg/m³ OSHA PEL TLV-TWA	, 5 mg/m³ ACGIH
Film agent	s	1-5 5 mg/m³ OSHA PEL TLV-TWA >90 Not applicable	, 5 mg/m³ ACGIH
Film agent	s	1-5 5 mg/m³ OSHA PEL TLV-TWA	, 5 mg/m³ ACGIH
Film agent	EALTH HAZARDS IDEN  Not applicable  RE:  None known.  None known.  None known.  None known.	1-5 5 mg/m³ OSHA PEL TLV-TWA >90 Not applicable	, 5 mg/m³ ACGIH
Film agent  Non-hazardous ingredient	EALTH HAZARDS IDEN  Not applicable  RE:  None known.  None known.  None known.  None known.  None known.  None known.	1-5 5 mg/m³ OSHA PEL TLV-TWA >90 Not applicable FIFICATION (Also See Section	, 5 mg/m³ ACGIH
Film agent  Non-hazardous ingredient	EALTH HAZARDS IDEN  Not applicable RE: None known. No special requirement	1-5 5 mg/m³ OSHA PEL TLV-TWA >90 Not applicable  FIFICATION (Also See Section  5. 5. 5. 5.	, 5 mg/m³ ACGIH
Film agent  Non-hazardous ingredient	EALTH HAZARDS IDEN  Not applicable RE: None known.  IRST AID MEASURES  No special requirement	1-5 5 mg/m³ OSHA PEL TLV-TWA >90 Not applicable  FIFICATION (Also See Section of the section of	, 5 mg/m³ ACGIH

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## PLEDGE® DUST & ALLERGEN - UNSCENTED DRY CLOTHS

Date Issued: 21Jul2005 Supersedes: 04Dec2002

(LB/GAL)

## ----- SECTION 5 - FIRE AND EXPLOSION INFORMATION (continued) -----AUTOIGNITION..... Not applicable. TEMPERATURE EXTINGUISHING MEDIA.... Foam. CO2. Dry chemical. SPECIAL FIREFIGHTING... Normal fire fighting procedure may be used. PROCEDURES UNUSUAL FIRE AND...... No special hazards known. EXPLOSION HAZARDS ------ SECTION 6 - PREVENTIVE RELEASE MEASURES ------STEPS TO BE TAKEN IN... Sweep or scrape up and containerize. CASE MATERIAL IS RELEASED OR SPILLED ------ SECTION 7 - HANDLING AND STORAGE ------PRECAUTIONARY..... Use as directed. KEEP OUT OF REACH OF CHILDREN. INFORMATION OTHER HANDLING AND..... Store in a cool, dry place with adequate ventilation. STORAGE CONDITIONS ------ SECTION 8 - SPECIAL PROTECTION INFORMATION ------RESPIRATORY PROTECTION. No special requirements under normal use conditions. VENTILATION..... General room ventilation adequate. PROTECTIVE GLOVES..... No special requirements under normal use conditions. EYE PROTECTION...... No special requirements under normal use conditions. OTHER PROTECTIVE..... In case of spills, see Section 6. MEASURES ----- SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----COLOR..... White PRODUCT STATE..... Wipes ODOR..... Odorless pH..... Not applicable. ODOR THRESHOLD.... Not Applicable SOLUBILITY IN WATER.... Not applicable SPECIFIC GRAVITY..... Not available. (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.

Page 3 of 4 MSDS # 126718005

## PLEDGE® DUST & ALLERGEN - UNSCENTED DRY CLOTHS

Date Issued: 21Jul2005 Supersedes: 04Dec2002

## ------ SECTION 10 - STABILITY AND REACTIVITY ------STABILITY..... Stable STABILITY - CONDITIONS. None known. TO AVOID INCOMPATIBILITY..... No special requirements. HAZARDOUS DECOMPOSITION When exposed to fire: Produces normal products of combustion. PRODUCTS HAZARDOUS..... Will not occur. POLYMERIZATION HAZARDOUS..... None known. POLYMERIZATION -CONDITIONS TO AVOID ----- SECTION 11 - TOXICOLOGY INFORMATION (Also See Section 3) -----LD50 (ACUTE ORAL TOX).. Not available. LD50 (ACUTE DERMAL TOX) Not available. LC50 (ACUTE INHALATION. Not available. EFFECTS OF CHRONIC.... None known. EXPOSURE SENSITIZATION..... None known. CARCINOGENICITY..... None known. REPRODUCTIVE TOXICITY.. None known. TERATOGENICITY..... None known. MUTAGENICITY..... None known. ------ SECTION 12 - ECOLOGICAL INFORMATION ------ENVIRONMENTAL DATA.... Not available. ----- SECTION 13 - DISPOSAL CONSIDERATIONS ------WASTE DISPOSAL..... Observe all Federal, Provincial, State and Municipal INFORMATION regulations. ------ SECTION 14 - TRANSPORTATION INFORMATION ---------US DOT INFORMATION.... Not applicable. CANADIAN SHIPPING NAME. PLEDGE® DUST & ALLERGEN - UNSCENTED DRY CLOTHS TDG CLASSIFICATION... Not applicable. PIN/NIP.... Not applicable. PACKING GROUP... Not applicable. EXEMPTION NAME..... Not applicable. ------- SECTION 15 - REGULATORY INFORMATION -------WHMIS CLASSIFICATION... Not applicable.

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.

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## PLEDGE® DUST & ALLERGEN - UNSCENTED DRY CLOTHS

SECTION 16 - 0	OTHER INFORMATION
ADDITIONAL INFORMATION. EPA REGISTRATION #	
PREPARATION	INFORMATION
PREPARED BY	Manufacturer's Technical Support Department. Refer to page 1 (Manufacturer) for contact information.

Supersedes: 04Dec2002

This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond 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.

PRINT DATE: 08Mar2007

Date Issued: 21Jul2005

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Poli-Kleen Wax Polish

Product Number: A00136

Product Use: Polishing wax.

Manufacturer/Supplier: Waxie Sanitary Supply

9353 Waxie Way

San Diego, CA 92193-1036

**Phone Number:** 1-800-995-4466

D.O.T. Emergency Phone: 1-800-255-3924 CHEMTEL 24 HR

**Date of Preparation:** August 29, 2012 **Revision #**: 2.0

## **Section 2: HAZARDS IDENTIFICATION**

#### **EMERGENCY OVERVIEW**

CAUTION

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

Potential Health Effects: See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: May cause respiratory tract irritation. This product may be aspirated into the

lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

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

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	Wt. %
Distillates (petroleum), hydrotreated light	64742-47-8	5 - 10
Isobutane	75-28-5	1 - 5
Propane	74-98-6	1 - 5
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	0.1 - 1
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	0.1 - 1

HMIS: See Section 15

#### Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do,

remove contact lenses, if worn.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Wash clothing before reuse. Call a physician

if irritation develops and persists.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

#### **Section 5: FIRE FIGHTING MEASURES**

Flammability: Not flammable by OSHA criteria.

**Means of Extinction:** 

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

**Products of Combustion:** May include, and are not limited to: oxides of carbon.

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear

full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** 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 Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

2/6

Other Information: Not available.

#### Section 7: HANDLING AND STORAGE

## Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

## Storage:

Keep out of the reach of children. Do not store at temperatures above 49 ℃ / 120 年.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Exposure Guidelines**

	Exposur	e Limits
Ingredient	OSHA-PEL	ACGIH-TLV
Distillates (petroleum), hydrotreated light	100 ppm	200 mg/m <sup>3</sup>
Isobutane	Not available.	1000 ppm
Propane	1000 ppm	1000 ppm
Distillates (petroleum), hydrotreated light naphthenic	5 mg/m³ (mist)	5 mg/m³ (mist)
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (mist)	5 mg/m³ (mist)

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment:

Eye/Face Protection: Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory

equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices.

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

Appearance: Opaque.

Colour: White.

Odour: Lemon.

Odour Threshold: Not available.

Physical State: Gas/Pressurized Liquid.

**pH**: 9-11

Viscosity:

Freezing Point:

Boiling Point:

Flash Point:

Evaporation Rate:

Lower Flammability Limit:

Not available.

Not available.

Not available.

Not available.

Not available.

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HMIS: See Section 15

Vapor Pressure: Not available.
Vapor Density: Not available.

**Specific Gravity:** 0.972 (Concentrate only)

Solubility in Water:

Coefficient of Water/Oil Distribution:

Auto-ignition Temperature:

Not available.

Not available.

Not available.

Not available.

VOC content, wt. %: 7.2% (US federal/CARB/OTC/LADCO)

VOC content, g/L: Not available.

#### Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon. **Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

#### **EFFECTS OF ACUTE EXPOSURE**

## **Component Analysis**

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Distillates (petroleum), hydrotreated light	> 5000 mg/kg, rat	> 5.2 mg/L 4hr, rat
Isobutane	Not available.	658 mg/L 4hr, rat
Propane	Not available.	658 mg/L 4hr, rat
Distillates (petroleum), hydrotreated light naphthenic	> 5000 mg/kg, rat	2.18 mg/L 4hr, rat
Distillates (petroleum), hydrotreated heavy naphthenic	> 5000 mg/kg, rat	> 5.0 mg/L 4hr, rat

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess

blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Handling can cause dry skin.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**Inhalation:** May cause respiratory tract irritation. This product may be aspirated into the

lungs and cause chemical pneumonitis.

#### EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

**Chronic Effects:** Not hazardous by OSHA criteria. **Carcinogenicity:** Not hazardous by OSHA criteria.

## Poli-Kleen Wax Polish

## Ingredient Chemical Listed as Carcinogen or Potential Carcinogen \*

Distillates (petroleum), hydrotreated light
Isobutane
Propane
Not listed.
Distillates (petroleum), hydrotreated light naphthenic
Not listed.

\* See Section 15 for more information.

Mutagenicity: Not hazardous by OSHA criteria.

Reproductive Effects: Not hazardous by OSHA criteria.

**Developmental Effects:** 

Teratogenicity: Not hazardous by OSHA criteria.

Embryotoxicity: Not hazardous by OSHA criteria.

Respiratory Sensitization: Not hazardous by OSHA criteria.

**Skin Sensitization:** Not hazardous by OSHA criteria. **Toxicologically Synergistic Materials:** Not available.

## **Section 12: ECOLOGICAL INFORMATION**

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

**Mobility in Environment:** Not available.

## Section 13: DISPOSAL CONSIDERATIONS

## **Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## **Section 14: TRANSPORTATION INFORMATION**

#### **DOT Classification**

ORM-D, Limited Quantity

## **Section 15: REGULATORY INFORMATION**

#### Federal Regulations

**US:** MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

## **SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Distillates (petroleum),				
hydrotreated light	Not listed.	Not listed.	Not listed.	Not listed.
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.
Propane	Not listed.	Not listed.	Not listed.	Not listed.
Distillates (petroleum),				
hydrotreated light naphthenic	Not listed.	Not listed.	Not listed.	Not listed.
Distillates (petroleum),				
hydrotreated heavy naphthenic	Not listed.	Not listed.	Not listed.	Not listed.

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## Poli-Kleen Wax Polish

## State Regulations

## California Proposition 65:

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

#### **Global Inventories**

Ingredient	USA
	TSCA
Distillates (petroleum), hydrotreated light	Yes.
Isobutane	Yes.
Propane	Yes.
Distillates (petroleum), hydrotreated light naphthenic	Yes.
Distillates (petroleum), hydrotreated heavy naphthenic	Yes.

## **HMIS - Hazardous Materials Identification System**

Health - 2 Flammability - 2 **Physical Hazard - 0** PPE - B

#### NFPA - National Fire Protection Association:

Health - 2 Fire - 2 Reactivity - 0

Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

## SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen.

A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

#### NTP (N) National Toxicology Program.

- 1 Known to be carcinogens.
- 2 Reasonably anticipated to be carcinogens.

## Section 16: OTHER INFORMATION

#### 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.

6/6

Prepared by: Nexreg Compliance Inc. Prepared for: Waxie Sanitary Supply

1-800-995-4466

August 29, 2012

1. Product and Company Identification

Product number 75004065

Product name Prime Source Glaze Furniture Polish with Lemon Oil

Effective date 12-Dec-2012
Company information Prime Source, LLC
11434 Moog Drive

Saint Louis, MO 63146 United States

Company phone General Assistance 1-630-543-7600

Emergency telephone US 1-866-836-8855 Emergency telephone outside US 1-952-852-4646

Version # 05

Supersedes date 17-Oct-2012

2. Hazards Identification

Emergency overview Aerosol. CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or

flames.

Potential health effects

Eyes Health injuries are not known or expected under normal use.

Skin Health injuries are not known or expected under normal use.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely.

Target organs Central nervous system.

Chronic effects May cause central nervous system disorder (e.g., narcosis involving a loss of

coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Signs and symptoms Narcosis.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	15 - 20
n-Butane	106-97-8	10 - 15
Propane	74-98-6	3 - 5
Non-bazardous and other components below reportable levels		60 - 80

#### 4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Get medical attention if irritation develops or persists.

Skin contact Immediately flush skin with plenty of water. Remove and isolate contaminated clothing

and shoes. Get medical attention if irritation develops or persists. Wash clothing

separately before reuse.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth

method if victim inhaled the substance. Call a physician if symptoms develop or persist.

Ingestion Have victim rinse mouth thoroughly with water. Get medical attention immediately. Do not

induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to-mouth method if victim ingested

the substance.

Notes to physician Symptoms may be delayed.

## 5. Fire Fighting Measures

Flammable properties Vapor or gas may spread to distant ignition sources and flash back.

Product name: Prime Source Glaze Furniture Polish with Lemon Oil

Product #: 232-003 Revision date: 12-DEC-2012 Print date: 12-DEC-2012

MSDS US

Extinguishing media

Suitable extinguishing media

Protection of firefighters

Specific hazards arising from

the chemical

Protective equipment and precautions for firefighters

Foam. Dry chemical. Carbon dioxide (CO2).

Fire may produce irritating, corrosive and/or toxic gases.

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

## 6. Accidental Release Measures

Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

Methods for cleaning up

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

## 7. Handling and Storage

Handling

Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Avoid prolonged exposure.

Storage

Level 1 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep the container dry. Keep in an area equipped with sprinklers. Keep out of the reach of children.

## 8. Exposure Controls / Personal Protection

#### **Exposure limits**

**ACGIH** 

Components	CAS#	TWA	STEL	Ceiling	
n-Butane	106-97-8	1000 ppm	Not established	Not established	
Propane	74-98-6	1000 ppm	Not established	Not established	
OSHA					
Components	CAS#	TWA	STEL	Ceiling	
Propane	74-98-6	1000 ppm	Not established	Not established	

## Personal protective equipment

Eye / face protection Skin protection Wear chemical goggles.

Protective gloves. Wear chemical protective equipment that is specifically recommended

by the manufacturer.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## 9. Physical & Chemical Properties

Appearance

Milky.

**Boiling point** 

230 °F (110 °C) estimated

Color

White.

Density

0.8649 g/cm3 estimated 13.6125 kJ/g estimated

Flammability (HOC)

No

Flash back Flash point

-156 °F (-104.4 °C) Propellant

Form Freezing point Aerosol.

Product name: Prime Source Glaze Furniture Polish with Lemon Oil

Product #: 232-003 Revision date: 12-DEC-2012 Print date: 12-DEC-2012

MSDS US 2 / 5 Odor

Aromatic.

pH

7 - 8

Physical state

Liquid.

Pressure

54 - 64 psig @ 70F

Solubility

Partially

Specific gravity

0.865 estimated

## 10. Chemical Stability & Reactivity Information

Chemical stability

Risk of ignition. Stable at normal conditions.

Conditions to avoid

Heat, flames and sparks.

Hazardous decomposition products May include oxides of nitrogen.

## 11. Toxicological Information

Acute effects

Acute LD50: 11047 mg/kg estimated, Rat, Dermal Acute LC50: 29 mg/l/4h estimated, Rat. Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

106-97-8

Inhalation LC50 Rat 658 mg/L 4 h

Propane Synthetic Isoparaffinic 74-98-6

Inhalation LC50 Rat 658 mg/L 4 n

Hydrocarbon

64742-47-8

Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50

Rabbit >2000 mg/kg

Sensitization Teratogenicity Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by OSHA criteria.

## 12. Ecological Information

**Ecotoxicity** 

LC50 264 mg/L estimated, Fish, 96.00 Hours,

Components of this product have been identified as having potential environmental

concerns

## 13. Disposal Considerations

Waste codes

D001: Waste Flammable material with a flash point <140 F

Disposal instructions

Consult authorities before disposal. Contents under pressure. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001.

Dispose in accordance with all applicable regulations.

## 14. Transport Information

## Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper shipping name

Aerosols

Hazard class

2.1

**UN number** 

UN1950

Additional information:

Special provisions

153, N82

Packaging exceptions

306

Packaging non bulk

None

Packaging bulk

None

Further information

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2013, the "Consumer Commodity -ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer

Commodity ORM-D" marking but not concurrently.

Product name: Prime Source Glaze Furniture Polish with Lemon Oil Revision date: 12-DEC-2012 Print date: 12-DEC-2012 Product #: 232-003

#### IMDG

Basic shipping requirements:

Proper shipping name

**AEROSOLS** 

Hazard class

2.1

UN number

1950

Additional information:

Packaging exceptions

LTD QTY

Item

5F

Labels required

NONE

**Transport Category** 

2

IATA

Basic shipping requirements:

Proper shipping name

Aerosols, flammable

Hazard class

2.1

**UN** number

1950

Additional information:

Packaging exceptions

LTD QTY

Labels required

2.1



## 15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

CERCLA (Superfund) reportable quantity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely

No

hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312)

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

Inventory status

Country(s) or region Inventory name On inventory (yes/no)\*

China

Inventory of Existing Chemical Substances in China (IECSC)

Europe

European Inventory of New and Existing Chemicals (EINECS) European List of Notified Chemical Substances (ELINCS)

No No

Europe

Inventory of Existing and New Chemical Substances (ENCS)

No No

Japan Korea

Existing Chemicals List (ECL)

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)

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

n-Butane

106-97-8

Present

Propane Synthetic Isoparaffinic 74-98-6 64742-47-8 Present Present

Hydrocarbon

16. Other Information

**Further information** 

**HMIS Trademark Statement** 

MSDS US 415

Product name: Prime Source Glaze Furniture Polish with Lemon Oil Revision date: 12-DEC-2012 Print date: 12-DEC-2012 Product #: 232-003

HMIS® ratings

Health: 1 Flammability: 2 Physical hazard: 0

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. 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.

MSDS sections updated

Product and Company Identification: Product Review Fire Fighting Measures: Unusual fire & explosion hazards Transport Information: Product Shipping Name/Packing Group

Regulatory Information: Canada

Prepared by

Regulatory Compliance

Product name: Prime Source Glaze Furniture Polish with Lemon Oil
Product #: 232-003 Revision date: 12-DEC-2012 Print date: 12-DEC-2012



4 June 2014 13 June 2011



## **MATERIAL SAFETY DATA SHEET**

## IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

#### 1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: PURELL® Advanced with Aloe Instant Hand Sanitizer

GOJO Industries, Inc.

Company Name & Address: One GOJO Plaza, Suite 500

Akron, OH 44311

Emergency Phone: 1-800-424-9300 CHEMTREC

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

## 2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	70% v/v
Isopropanol	67-63-0	400 ppm	200 ppm	< 5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; PA; CN

## 3. HAZARDS IDENTIFICATION:

#### **EMERGENCY OVERVIEW**

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

## **Potential Health Effects:**

HMIS: Health <u>2</u> Flammability <u>3</u> Reactivity <u>0</u> Personal Protection <u>None</u>

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Abnormal entry route

Ingestion: May cause upset stomach, nausea (Abnormal entry route). Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

## 4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition

worsens or irritation persists, contact physician.

Skin Contact: In the case of allergic reactions see a physician

Inhalation: Move to fresh air

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

## 5. FIRE FIGHTING MEASURES:

NFPA: Health <u>2</u> Fire <u>3</u> Reactivity <u>0</u>

Flashpoint °F/°C (PMCC method): 75.2°F/ 24°C

Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.

Special Fire Fighting Procedures: None known.

Extinguishing Media: X Water Fog X Alcohol Foam X CO<sub>2</sub> X Dry Chemical Other

#### 6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

#### 7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection:

Skin Protection:

Respiratory Protection:

Ventilation:

Protective Equipment or Clothing:

None required under normal conditions.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor Clear green liquid, fresh fragrance

pH (undiluted): 6.5 – 8.5 VOC , %: < 70%

#### 10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

## 11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

## 12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

## 13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

## 14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by ground modes in the U.S., this product is typically shipped as Consumer Commodity ORM-D. When transported by water, this product is typically shipped as a UN1170 in Limited Quantities. Refer to all current transport regulations for exact requirements.

## 15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(vi).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

WHMIS: Exempt under the Food and Drug Act

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

Document#: 9670-533

## **PURELL® Hand Sanitizer**



 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 02/10/2015

 1.2
 03/19/2015
 46955-00003
 Date of first issue: 01/13/2015

#### **SECTION 1. IDENTIFICATION**

Product name : PURELL® Hand Sanitizer

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 : Hand Sanitizer

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

provided on the package or instruction sheet.

intended-use guidance, please refer to the information

#### **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Flammable liquids : Category 3

Eye irritation : Category 2A

**GHS Label element** 

Hazard pictograms :





Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.

H319 Causes serious eye irritation.

## **PURELL® Hand Sanitizer**



Version Revision Date: MSDS Number: Date of last issue: 02/10/2015
1.2 03/19/2015 46955-00003 Date of first issue: 01/13/2015

Precautionary Statements : **Prevention:** 

P210 Keep away from heat/sparks/open flames/hot surfaces.

No smoking.

P233 Keep container tightly closed.

P241 Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately

all contaminated clothing. Rinse skin with water/shower. 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. **Storage:** 

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

## Other hazards

Vapors may form explosive mixture with air.

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

Substance / Mixture : Mixture

## **Hazardous ingredients**

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 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.

## **PURELL® Hand Sanitizer**



Version **Revision Date:** MSDS Number: Date of last issue: 02/10/2015 03/19/2015 46955-00003 Date of first issue: 01/13/2015 1.2

Get medical attention.

If swallowed, DO NOT induce vomiting. If swallowed

> 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.

: Treat symptomatically and supportively. Notes to physician

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

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

: Do not use a solid water stream as it may scatter and spread

fire.

Flash back possible over considerable distance. Vapors may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion prod-

ucts

: 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

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

Remove all sources of ignition.

Use personal protective equipment.

Follow safe handling advice and personal protective

equipment recommendations.

Environmental precautions : Discharge into the environment must be avoided.

## **PURELL® Hand Sanitizer**



 Version
 Revision Date:
 MSDS Number:
 Date of last issue: 02/10/2015

 1.2
 03/19/2015
 46955-00003
 Date of first issue: 01/13/2015

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

: Non-sparking tools should be used.

Soak up with inert absorbent material.

Suppress (knock down) gases/vapors/mists with a water spray

jet.

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 with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Do not breathe vapors or spray 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.

Non-sparking tools should be used. Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Conditions for safe storage : Keep in properly labeled containers.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

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Organic peroxides Flammable solids Pyrophoric liquids Pyrophoric solids

Self-heating substances and mixtures

Substances and mixtures which in contact with water emit

flammable gases

Explosives Gases

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

## Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

## **Biological occupational exposure limits**

Ingredients	CAS-No.	Control	Biological	Sam-	Permissible	Basis
		parameters	specimen	pling	concentratio	
				time	n	
Propan-2-ol	67-63-0	Acetone	Urine	End of	40 mg/l	ACGIH
				shift at		BEI
				end of		
				work-		
				week		

**Engineering measures** : Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust

ventilation.

Use with local exhaust ventilation.

## 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.

unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and

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> 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

Material : Flame retardant 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.

: Wear the following personal protective equipment: Eye protection

Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure

potential.

Wear the following personal protective equipment:

Flame retardant antistatic protective clothing.

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 : clear, Colorless to pale yellow

Odor : citrus

Odor Threshold : No data available

pΗ : 6.0 - 9.2

Melting point/freezing point : No data available

Initial boiling point and boiling

range

: No data available

6/15

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Flash point : 25 °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 : 0.89 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 : 1,000 - 35,000 mm2/s (20 °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 reac-

tions

: Flammable liquid and vapor.

Vapors may form explosive mixture with air. Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

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## **SECTION 11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

## **Acute toxicity**

Not classified based on available information.

**Product:** 

: Acute toxicity estimate: > 5,000 mg/kg Acute oral toxicity

Method: Calculation method

**Ingredients:** 

Ethanol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l

> Exposure time: 4 h Test atmosphere: vapor

Propan-2-ol:

: LD50 (Rat): > 5,000 mg/kg Acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l

> Exposure time: 4 h Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

## Skin corrosion/irritation

Not classified based on available information.

**Product:** 

Result: No skin irritation

## **Ingredients:**

Ethanol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Propan-2-ol:

Species: Rabbit

Result: No skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

**Ingredients:** 

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Ethanol: Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Method: OECD Test Guideline 405

**Propan-2-ol:** Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

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:** 

**Ethanol:** 

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse Result: negative

Propan-2-ol:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

**Ethanol:** 

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)

Species: Mouse

Application Route: Ingestion

Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

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Carcinogenicity

Not classified based on available information.

Ingredients:
Propan-2-ol:
Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

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 carcino-

gen 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:** 

**Ethanol:** 

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Method: OECD Test Guideline 416

Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

**Application Route: Ingestion** 

Result: negative

STOT-single exposure

Not classified based on available information.

**Ingredients:** 

Propan-2-ol:

Assessment: May cause drowsiness or dizziness.

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### STOT-repeated exposure

Not classified based on available information.

### Repeated dose toxicity

# Ingredients:

Ethanol: Species: Rat

NOAEL: 2,400 mg/kg Application Route: Ingestion

Exposure time: 2 y

Propan-2-ol:

Species: Rat NOAEL: 5000 ppm

Application Route: inhalation (vapor)

Exposure time: 104 w

Method: OECD Test Guideline 413

### **Aspiration toxicity**

Not classified based on available information.

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

### **Ecotoxicity**

### **Ingredients:**

Ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 9.6 mg/l

Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l

Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 24 h

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800

mg/l

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Exposure time: 8 d

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l

Exposure time: 16 h

Persistence and degradability

Ingredients:

Ethanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential

**Ingredients:** 

Ethanol:

Partition coefficient: n-

octanol/water

: log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-

octanol/water

: log Pow: 0.05

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.

Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14. TRANSPORT INFORMATION** 

International Regulation

**UNRTDG** 

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

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(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3

IATA-DGR

UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.

(Ethanol, Propan-2-ol)

Class : 3 Packing group : III

Labels : Flammable Liquids

Packing instruction (cargo : 366

aircraft)

Packing instruction : 355

(passenger aircraft)

**IMDG-Code** 

UN number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.

(Ethanol, Propan-2-ol)

Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

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 1987

Proper shipping name : ALCOHOLS, N.O.S.

Class : 3 Packing group : III

Labels : FLAMMABLE LIQUID

ERG Code : 127 Marine pollutant : no

#### **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 : Fire Hazard





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Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels

established by SARA Title III, Section 313:

Propan-2-ol 67-63-0 3.013 %

**US State Regulations** 

Pennsylvania Right To Know

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 1 - 5 %

**New Jersey Right To Know** 

 Ethanol
 64-17-5
 50 - 70 %

 Water
 7732-18-5
 30 - 50 %

 Propan-2-ol
 67-63-0
 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:

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)

# **PURELL® Hand Sanitizer**

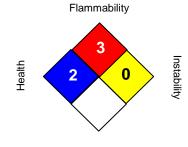


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### **SECTION 16. OTHER INFORMATION**

#### **Further information**

# NFPA:



Special hazard.

### HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, \* = Chronic

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

ACGIH / TWA : 8-hour, time-weighted average ACGIH / STEL : Short-term exposure limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded

at any time during a workday

OSHA Z-1 / TWA : 8-hour time weighted average

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 Agen-

cy, http://echa.europa.eu/

Revision Date : 03/19/2015

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

# **Material Safety Data Sheet**

Sanford Corporation

Telephone No:

1-800-323-0749

MSDS No: 170-43

2740 Washington Blvd.

Date of Last Revision:

January 2, 2003

Beliwood,

ΙL

60104

Medical Emergency No:

1-800-228-5635

### Section 1 - Product Identification

Product Name:

Roll-On Stamp Pad Inker

Colors:

Black, Blue, Brown, Green, Red, Violet

### **Section 2 - Composition**

Dyes, water, glycerine (56-81-5), diethylene glycol (111-46-6), polyethylene glycol (25322-68-3)

# Section 3 - Physical / Chemical Characteristics

For glycerine:

**Boiling Point:** 

Greater than 550°F at 760 mm Hg

Vapor Pressure (mm Hg):

Less than 0.1 mm Hg at 72°F

Specific Gravity:

1.2 - 1.3 at 22°C

Solubility in Water:

Complete

Appearance / Odor:

Water white, clear liquid, bland odor

**Evaporation Rate:** 

Not available

# Section 4 - Fire and Explosion Hazard Data

Flash Point (Method Used):

Greater than 390°F (PMCC)

Flammability Limits (% by volume):

Lower: Not available

Upper:

Not available

Extinguishing Medium:

N/A

Special Fire Fighting Procedures:

N/A

Unusual Fire and Explosion Hazards:

N/A

### Section 5 - Reactivity Data

Stability:

Stable

Conditions to Avoid:

Not available

Chemical Incompatibility:

Not available

Hazardous Decomposition:

Not available

Hazardous Polymerization:

Will not occur

#### Section 6 - Health Hazard Data

Chemical Listed as Carcinogen or Potential Carcinogen:

IARC Monographs:

No

National Toxicology Program:

No

**OSHA** Regulated:

No

The product is considered safe when used under normal use conditions.

### Section 7 - Precautions for Safe Handling and Use

Steps to be Taken in Case

Material is Released or Spilled:

Wipe up with absorbent material.

Waste Disposal Method:

Dispose in accordance with Federal, State, and Local Regulations.

Precautions to be Taken in

Handling and Storing:

Do not squeeze bottle. Keep cap on bottle when not in use.

Other Precautions:

None

### Section 8 - Personal Protection and Exposure Control Measures

Eye Protection:

None under normal use conditions.

Skin Protection:

None under normal use conditions.

Respiratory Protection:

None under normal use conditions.

Ventilation:

None under normal use conditions.

Protective Clothing:

None under normal use conditions.

HMIS Code	
Health	1
Flammability	0
Reactivity	0
Personal Protection	N/A

0 = Minimal / 4 = Severe Hazard

Sanford Corporation has been advised by council that the OSHA Hazard Communication Standard does not apply to the Sanford Product described in this MSDS. The reason for the exemption is contained in 29 CFR Part 1910.1200 (b) (6) (ix), as amended July 1, 1994 per the Code of Federal Regulations. The information contained in this MSDS is forwarded to you for your information but is not meant to imply that the product is covered by the Hazard Communication Standard nor is the MSDS meant to comply with all requirements of the Hazard Communication Standard.



# MATERIAL SAFETY DATA SHEET

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Shachihata STAMP PAD HGN-1,2,3,4 (All colors)

Shachihata STAMP PAD INK SGN-40,SGN-250 (All colors)

Shachihata STAMP PAD (ECOS)

HG-1EC,HG-2EC,HG-3EC,HG-4 (All colors)

Shachihata STAMP PAD INK SG-40,SG-250 (All colors)

Shachihata STAMP PAD (2 Colours) HGW-3EC(Red/Black)(Red/Blue)

General Use STAMP PAD INK MSDS Number ES1104A-0101

MANUFACTURER

Company Name Shachihata Inc.

Address 4-69, Amazuka-cho, Nishi-ku, Nagoya City, 451-0021, Japan

Telephone Number ++ 81 52 521 3600 Fax Number ++ 81 52 521 3899

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Hazardous Ingredients

Chemical or	wt.%		CAS(TSCA)	EINECS
Common Name(s)	Black	Others	Number	<u>Number</u>
Carbon black	5~15	_	1333-86-4	215-609-9

# 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

May cause allergic skin reaction.

POTENTIAL HEALTH EFFECT

No data available

POTENTIAL ENVIRONMENTAL EFFECTS

No data available

# 4. FIRST AID MEASURES

INHALATION Move to well ventilated place.

See medical advice immediately.

EYE Immediately flush with plenty of water.

See medical advice immediately.

SKIN Wipe off with dry cloth and wash with mild soap.

See medical advice immediately.

INGESTION See medical advice immediately.

PROTECTION TO FIRST - AIDERS

No data available

NOTE TO PHYSICIAN

Treatment may vary with condition of victim and specifics of incident.

### 5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flammable

EXTINGUISHING MEDIA

Dry chemical powder, foam or carbon dioxide.

FIRE FIGHTING INSTRUCTIONS

Wear full fire-fighting turn-out gear and respiratory protection.

# 6. ACCIDENTAL RELEASE MEASURES

LAND SPILL Wipe off with dry cloth.

WATER SPILL Contain spilled liquid with sand or earth.

Do not use combustible materials, such as sawdust.

# 7. HANDLING AND STORAGE

HANDLING: Use only in the well-ventilated areas.

Avoid contact with skin or eyes, or clothing.

Avoid inhalation and ingestion. Avoid high temp. and fire. Wash throughly after handling.

STORAGE: Store in a cool, dry, well-ventilated location.

Keep away from heat, sunlight. Keep away from children.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

OSHA PEL (1994)

[Carbon black] TWA 3.5 mg/m<sup>3</sup>

ACGIH TLV (2003)

[Carbon black] TWA 3.5 mg/m<sup>3</sup>

EN LIMIT (2000/39/EN)

Not established

# **EXPOSURE CONTROLS**

Occupational Exposure Controls

Engineering Controls

Use exhaust ventilation to keep airborne concentration below exposure limits.

Personal Protection

Respiratory Protection

Use with local exhaust ventilation, when in long use.

Hand Protection

Not required, but wear safety gloves, if necessary.

Eye Protection

Not required, but wear safety glasses, if necessary.

Skin Protection

To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

Environmental Exposure Controls

Not established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Liquid

Odor
pH
No data available
Boiling Point / Boiling Range
Flash Point
Explosive Properties
Relative Density (g/cm³)
Solubility [ Water ]

minor oil odor
No data available
No data available
150 °C (open cup )
No data available
1.0 g/cm³
dissoluble

# 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID No data available

STABILITY No data available

MATERIALS TO AVOID No data available

HAZARDOUS REACTIONS / DECOMPOSITION PRODUCTS

No data available

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity (RTECS: 2003.2)

[Carbon black ]

Oral  $LD_{50}$  (rat) >15,400 mg/kg Skin  $LD_{50}$  (rabbit) >3 mg/kg

# 12. ECOLOGICAL INFORMATION

ECOTOXICITY No data available

BIOACCUMULATIVE POTENTIAL No data available

OTHER ADVERSE EFFECTS No data available

### 13, DISPOSAL CONSIDERATIONS

Comply with all federal, state, EU, national and local regulations.

Do not dump this product into sewers, on the ground or into any body of water.

# 14. TRANSPORT INFORMATION

UN CLASS None
UN Packing Group (PG) None
UN NUMBER None
Proper Shipping Name None

# 15. REGULATORY INFORMATION

Refer to any other federal, state, EU, national and local regulations.

TSCA STATUS: All components on TSCA INVENTORY.

CERCLA REPORTABLE QUANTITY (40 CFR 117,302):

Not applicable

SARA TITLE III: Not applicable

EC (2001/59/EC): Not applicable

Please refer to any other EU, national and local measures.

# 16. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Shachihata Inc.

It relates only to the specific material designated herein, and does not relate to use in combination with any other material or process.

Shachihata Inc. assumes no legal responsibility for use or reliance upon this information.

# SAFETY DATA SHEET





# **Section 1. Identification**

GHS product identifier : CITGO HyDurance™ AW Fluid 32

Synonyms : Hydraulic Fluid
Code : 633607001

Supplier's details : CITGO Petroleum Corporation

P.O. Box 4689 Houston, TX 77210 sdsvend@citgo.com

**Emergency telephone** 

number

: Technical Contact: (800) 248-4684 Medical Emergency: (832) 486-4700 CHEMTREC Emergency: (800) 424-9300

(United States Only)

# Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available

for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Signal word : Warning

**Hazard statements**: Injection under the skin can cause severe injury.

Most damage occurs in the first few hours.

Initial symptoms may be minimal.

**Precautionary statements** 

General : Avoid contact with eyes, skin and clothing. IF IN EYES: Rinse cautiously with water for

several minutes. IF SWALLOWED: Do NOT induce vomiting. After handling, always wash hands thoroughly with soap and water. If you feel unwell, seek medical attention

and show the label when possible. Keep out of reach of children.

Prevention : Not applicable.

Response : Not applicable.

Storage : Store in a dry place and/or in closed container. Store in accordance with all local,

regional, national and international regulations.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise** 

classified

: Injection of petroleum hydrocarbons requires immediate medical attention

# Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Hvdraulic Fluid

### **CAS** number/other identifiers

**CAS number** : Not applicable.

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# Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to process variation.

There are no 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.

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

evelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get

medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute

### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Injection of pressurized hydrocarbons can cause severe permanent tissue damage.

Initial symptoms may be minor.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Indication of immediate medical 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**: Treat symptomatically and supportively.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

# See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

### **Extinguishing media**

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

: None known.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide

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# 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

**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. Do not touch or walk through spilled material. 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 nonemergency 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 containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Absorb with an inert 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. 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. 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** Advice on general occupational hygiene

- : 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. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Maintain all storage tanks in accordance with applicable Bulk Storage Conditions: regulations. Use necessary controls to monitor tank inventories. Inspect all storage tanks on a periodic basis. Test tanks and associated piping for tightness. Maintain the automatic leak detection devices to assure proper working condition.

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# Section 8. Exposure controls/personal protection

#### **Control parameters**

### Occupational exposure limits

None identified.

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**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 glasses equipped with side shields are recommended as minimum protection in industrial settings. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. 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 inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection** 

**Hand protection** 

: Chemical-resistant gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**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.

Other skin protection

: Avoid skin contact with liquid. 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. Leather boots are not protective for liquid contact.

**Respiratory protection** 

: Avoid inhalation of gases, vapors, mists or dusts. Use a properly fitted, air-purifying or supplied-air 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.

# Section 9. Physical and chemical properties

Physical state

: Liquid.

Color

: Light amber [Light]

Odor

: Mild petroleum odor [Slight]

pH Boiling point/boiling range : Not applicable.

Elech point

: Not available.

Flash point

: Open cup: 214°C (417.2°F) [Cleveland.]

Lower and upper explosive

(flammable) limits

: Not available.

Vapor pressure Vapor density

: Not available.: Not available.: Not available.: 7.14 lbs/gal

Density lbs/gal Gravity, °API

Relative density

33.6

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CITGO HyDurance™ AW Fluid 32

# Section 9. Physical and chemical properties

Viscosity : Dynamic (room temperature): Not applicable.

Kinematic (room temperature): Not applicable. Kinematic (40°C (104°F)): 0.32 cm<sup>2</sup>/s (32 cSt)

Viscosity SUS : 155 SUS @100 F

# Section 10. Stability and reactivity

Reactivity: Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide

under US GHS Definition(s).

**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 : No specific data.

**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**

Conclusion/Summary : Distillates (petroleum), hydrotreated heavy paraffinic: Mineral oil mists derived from

highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.

**Irritation/Corrosion** 

SkinEyesNo additional information.RespiratoryNo additional information.

**Sensitization** 

Skin : No additional information.

Respiratory : No additional information.

**Mutagenicity** 

**Conclusion/Summary**: No additional information.

**Carcinogenicity** 

**Conclusion/Summary**: No additional information.

Reproductive toxicity

**Conclusion/Summary**: No additional information.

**Teratogenicity** 

**Conclusion/Summary**: No additional information.

### Specific target organ toxicity (single exposure)

Not available.

# Specific target organ toxicity (repeated exposure)

Not available.

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# **Section 11. Toxicological information**

### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Not available.

# Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Injection of pressurized hydrocarbons can cause severe permanent tissue damage.

Initial symptoms may be minor.

**Ingestion** : No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### Potential chronic health effects

General : No known significant effects or critical hazards.
 Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.
 Fertility effects : No known significant effects or critical hazards.

# **Section 12. Ecological information**

### **Toxicity**

**Conclusion/Summary**: Not available.

### Persistence and degradability

**Conclusion/Summary**: Not available.

### **Bioaccumulative potential**

Not available.

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects: No known significant effects or critical hazards.

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# 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. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **Section 14. Transport information**

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Additional information	-	-	-

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# Section 15. Regulatory information

U.S. Federal regulations

: United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Zinc and zinc compounds; Toluene; Phenol Clean Water Act (CWA) 311: Toluene; Phenol

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

### **SARA 302/304**

# Composition/information on ingredients

			SARA 302 TPQ		<b>SARA 304 F</b>	RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Phenol	<0.001	Yes.	500 / 10000	-	1000	-

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# Section 15. Regulatory information

: 106837606.8 lbs / 48504273.5 kg [14899387.7 gal / 56400318 L]

**SARA 311/312** 

Classification : Not applicable. **Composition/information on ingredients** 

### State regulations

**Massachusetts** : None of the components are listed. **New York** : None of the components are listed. **New Jersey** : None of the components are listed. **Pennsylvania** : None of the components are listed.

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer. WARNING: This product contains less than 1% of a chemical known to the State of California to cause birth defects or other reproductive harm.

Ingredient name	%	Cancer	Reproductive	•	Maximum acceptable dosage level
Toluene	<0.01	No.	Yes.	No.	7000 µg/day (ingestion)
ethyl acrylate	<0.001	Yes.	No.	No.	No.

### International regulations

**International lists** 

: Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

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Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

: All components are listed or exempted. **Canada inventory** : All components are listed or exempted. **EU Inventory** WHMIS (Canada) : Not controlled under WHMIS (Canada).

# **Section 16. Other information**

### National Fire Protection Association (U.S.A.)



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# **History**

Date of issue/Date of

revision

: 5/26/2015.

8/9

Date of issue/Date of revision : 5/26/2015

# 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 73/78 = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

**UN = United Nations** 

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Glass & Mirror Cleaner (STP18485)(BPR123A19-A)

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Glass & Mirror Cleaner (STP18485)(BPR123A19-A)

Product Number: A00123
Product Use: Cleaner.

**Manufacturer/Supplier:** Staples Contract & Commercial, Inc.

500 Staples Drive,

Framingham, MA 01702 USA

**Phone Number:** 1-888-322-0912

**D.O.T. Emergency Phone:** 1-888-322-0912 (24-hours, 7 days a week)

Date of Preparation: August 26, 2012 Revision #: 3.1

### **Section 2: HAZARDS IDENTIFICATION**

HMIS: See Section 15

#### **EMERGENCY OVERVIEW**

DANGER

MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. MAY CAUSE RESPIRATORY SENSITIZATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

Potential Health Effects: See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.Inhalation: May cause respiratory tract irritation. This product may be aspirated into the

lungs and cause chemical pneumonitis.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation. May cause sensitization by inhalation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

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

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

# Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	Wt. %
Propane	74-98-6	1 - 5
Ethanol	64-17-5	1 - 5
Ethylene glycol monobutyl ether	111-76-2	0.5 - 1.5
Isobutane	75-28-5	0.5 - 1.5
Monoethanolamine	141-43-5	0.1 - 1

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#### **Section 4: FIRST AID MEASURES**

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact

lenses, if worn. If irritation persists, get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Wash clothing before reuse. Call a physician

if irritation develops and persists.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

### **Section 5: FIRE FIGHTING MEASURES**

Flammability: Not flammable by WHMIS/OSHA criteria.

**Means of Extinction:** 

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

Products of Combustion: May include, and are not limited to: oxides of carbon.

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear

full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** 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 Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

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#### Section 7: HANDLING AND STORAGE

# Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### Storage:

Keep out of the reach of children. Do not store at temperatures above 49  $\,^\circ$ C / 120  $\,^\circ$ E. Keep away from food, drink and animal foodstuffs.

# Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Guidelines**

	Exposur	e Limits
Ingredient	OSHA-PEL	ACGIH-TLV
Propane	1000 ppm	1000 ppm
Ethanol	1000 ppm	1000 ppm
Ethylene glycol monobutyl ether	50 ppm	20 ppm
Isobutane	Not available.	1000 ppm
Monoethanolamine	3 ppm	3 ppm

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment: HMIS: See Section 15

**Eye/Face Protection:** Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory

equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices.

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

Appearance: Clear.

Colour: Colorless.

Odour: Floral/fruity/spice.
Odour Threshold: Not available.

**Physical State:** Gas/Pressurized Liquid.

**pH**: 10-11

Viscosity:

Freezing Point:

Boiling Point:

Flash Point:

Evaporation Rate:

Lower Flammability Limit:

Not available.

Not available.

Not available.

Not available.

Glass & Mirror Cleaner (STP18485)(BPR123A19-A)

Upper Flammability Limit:Not available.Vapor Pressure:Not available.Vapor Density:Not available.

**Specific Gravity:** 0.993 (Concentrate only)

Solubility in Water: Complete.

Coefficient of Water/Oil Distribution: Not available.

Auto-ignition Temperature: Not available.

Percent Volatile, wt. %: Not available.

**VOC content, wt. %:** 7.6% (US federal/CARB/OTC/LADCO)

**VOC content, g/L:**Not available.

### Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions. Contents under pressure. Container may

explode if heated. Do not puncture. Do not burn. Keep in a cool place.

Conditions of Reactivity: Heat. Incompatible materials.

Incompatible Materials: Oxidizers.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon. **Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

### Section 11: TOXICOLOGY INFORMATION

#### **EFFECTS OF ACUTE EXPOSURE**

### **Component Analysis**

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Propane	Not available.	658 mg/L 4hr, rat
Ethanol	7060 mg/kg, rat	124.7 mg/L 4hr, rat 450 ppm 4hr, rat;
Ethylene glycol monobutyl ether	470 mg/kg, rat	2.21 mg/L 4hr, rat
Isobutane	Not available.	658 mg/L 4hr, rat
Monoethanolamine	1720 mg/kg, rat	Not available.

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess

blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Handling can cause dry skin.

Ingestion: Not a normal route of exposure. Harmful: may cause lung damage if swallowed.Inhalation: May cause respiratory tract irritation. May cause respiratory sensitization. This

product may be aspirated into the lungs and cause chemical pneumonitis.

### **EFFECTS OF CHRONIC EXPOSURE**

Target Organs: Not available.

**Chronic Effects:** Not hazardous by WHMIS/OSHA criteria. **Carcinogenicity:** Hazardous by WHMIS/OSHA criteria.

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Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen \*

Propane

Ethanol

Ethylene glycol monobutyl ether

Isobutane Monoethanolamine Not listed.

G-A3, I-1 (in alcoholic beverages), O

G-A3, I-3 Not listed. Not listed.

\* See Section 15 for more information.

Mutagenicity: Hazardous by WHMIS/OSHA criteria.

Reproductive Effects: Not hazardous by WHMIS/OSHA criteria.

**Developmental Effects:** 

Teratogenicity: Not hazardous by WHMIS/OSHA criteria.
Embryotoxicity: Not hazardous by WHMIS/OSHA criteria.
Respiratory Sensitization: Hazardous by WHMIS/OSHA criteria.
Skin Sensitization: Not hazardous by WHMIS/OSHA criteria.

Toxicologically Synergistic Materials: Not available.

### Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: May cause long-term adverse effects in the aquatic environment.

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

**Mobility in Environment:** Not available.

### Section 13: DISPOSAL CONSIDERATIONS

### **Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

### **Section 14: TRANSPORTATION INFORMATION**

### **DOT Classification**

ORM-D, Limited Quantity

### **TDG Classification**

Limited Quantity

### **Section 15: REGULATORY INFORMATION**

### **Federal Regulations**

**Canada:** 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.

US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

Glass & Mirror Cleaner (STP18485)(BPR123A19-A)

### **SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Propane	Not listed.	Not listed.	Not listed.	Not listed.
Ethanol	Not listed.	Not listed.	Not listed.	Not listed.
Ethylene glycol monobutyl ether	Not listed.	Not listed.	Not listed.	Yes.
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.
Monoethanolamine	Not listed.	Not listed.	Not listed.	Not listed.

# State Regulations

### **California Proposition 65:**

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

### **Global Inventories**

Ingredient	Canada	USA
	DSL/NDSL	TSCA
Propane	DSL	Yes.
Ethanol	DSL	Yes.
Ethylene glycol monobutyl ether	DSL	Yes.
Isobutane	DSL	Yes.
Monoethanolamine	DSL	Yes.

### **HMIS - Hazardous Materials Identification System**

Health - 1\* Flammability - 1 Physical Hazard - 0 PPE - B

### NFPA - National Fire Protection Association:

Health - 1 Fire - 1 Reactivity - 0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

# WHMIS Classification(s):

Class A - Compressed Gas Class D2A - Carcinogenicity

Class D2A - Mutagenicity

Class D2A - Respiratory Sensitization

Class D2B - Skin/Eye Irritant

### **WHMIS Hazard Symbols:**





Glass & Mirror Cleaner (STP18485)(BPR123A19-A)

#### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

#### **Section 16: OTHER INFORMATION**

### 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.

Expiry Date: August 26, 2015

Prepared by: Nexreg Compliance Inc.

Prepared for: Staples Contract & Commercial, Inc. - Phone: 1-888-322-0912



Based in US Department of Labour Occupational Safety and Health Administration From OMB NO. 1218-0072. Be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. This standard must be consulted for specific requirements

Date: October 2008

Revision Number

# **SECTION I - PRODUCT IDENTIFICATION**

IDENTITY Staples Screen Cleaner 8 oz

Product Name: Screen Cleaner Spray, 8oz SKU 775487 (model 16996) [STP08007]

Manufacturer: Systemcare Products Ltd

Units 6/7 Maybrook Industrial Estate

Walsall Wood West Midlands WS8 7DG

Tel: 1-800-727-0610 Fax: 1-972-562-4303

Email: datasheets@systemcare.co.uk

# **SECTION II - HAZARD INGREDIENTS / IDENTITY INFORMATION**

No significant hazard

Contains: Non Hazardous Liquid, Contains DMDM Hydantoin and Iodopropynyl

Butylcarbamate as a preservation system

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

State: Liquid
Colour: Colourless
Odour: Odourless
Evaporation rate: Moderate
Solubility in water: Soluble
Boiling point/range°C: 100
pH: 7

Mobility: Soluble in water. Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

# SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water

spray to cool containers.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent

contact with skin and eyes.

Reference: msds-775487-sceencleaner



# **SECTION V - REACTIVITY DATA**

Stability: Stable under normal conditions.

Conditions to avoid: Direct sunlight.

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

### **SECTION VI - HEALTH HAZARD DATA**

**Emergency Overview:** This product has no health hazards reported from normal use

Routes of entry

Skin contact: Usually no symptoms.

Eye contact: There may be irritation and redness. Ingestion: There may be irritation of the throat.

Inhalation: Usually no symptoms

# **Emergency First Aid Procedures**

Skin contact: Wash immediately with plenty of soap and water. Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Consult a doctor.

### Carcinogenicity

IARC:

National Toxicology Program:

OSHA:

### **NFPA Hazard Code**

Health hazard rating: 0
Fire hazard rating: 0
Reactivity rating: 0
Special hazard: NONE

# **SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

### **Personal Precautions**

Respiratory protection: Respiratory protection not required.

Eye protection: In case of splashing ensure eye bath is to hand.

Skin protection: Not required

### **Environmental precautions**

Do not discharge into drains or rivers. Contain the spillage using bunding. Turn leaking containers leak side up to prevent any liquid escaping

# **Prevention of Fire and Explosion**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Use water spray to cool containers.

Protection of firefighters: Wear self-contained breathing apparatus. Wear protective clothing to

prevent contact with skin and eyes.

**Storage conditions:** Store in cool and well ventilated area.

Reference: msds-775487-sceencleaner



Keep container tightly closed.



# Accidental measures and methods for cleaning up:

Absorb into dry earth or sand.

Transfer to a seal-able and label container for disposal by an appropriate method

# **SECTION VIII - CONTROL MEASURES**

Occupational Exposure Controls:

Medical Aggravated by Exposure: None

Ventilation: Normal Room Conditions

Respiratory protection: Respiratory protection not required.

Eye protection: In case of splashing ensure eye bath is to hand.

Skin protection: Not required

Recommended Decontamination Facilities:

Eye wash in case of splashing, washing facilities as appropriate to the condition of usage

Engineering Controls: None required in normal use

# **SECTION IX - TRANSPORT INFORMATION**

Not regulated **DOT Proper Shipping Name:** Packing Group: Not regulated TDG Classification: Not regulated Hazard Class: Not regulated Identification Number: Not applicable Not regulated IMO: IATA/ICAO Class: Not regulated **UN Hazard Class:** Not regulated

# **SECTION X - OTHER INFORMATION**

The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Labelling:

Hazard symbols: No significant hazard.

Reference: msds-775487-sceencleaner

1. Product and Company Identification

Material Name: Static Guard Antistatic Spray

Revision Date: May 6 2013
CAS # Mixture
Product Use: Anti-static Spray
Company Information B&G Foods, Inc.

Four Gatehall Drive, Suite 110

Parsippany, NJ 07054 973 401 6500

Contact Name: William H. Wright, EVP QA, R&D

(Phone Extension) 6414

2. Hazards Identification

Emergency Overview CONTENTS UNDER PRESSURE

EXTREMELY FLAMMABLE. Will be easily ignited by heat, spark or flames

Contact with eyes may cause irritation.

Potential short term health effects

Eyes Contact with eyes may cause irritation. Health injuries are not know or expected under normal use.

Skin Health injuries are not know or expected under normal use.

Inhalation Health injuries are not know or expected under normal use. Intentional misuse by concentrating and

inhaling the product can be harmful or fatal.

Ingestion Do not ingest. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Health

injuries are not know or expected under normal use.

Target Organs Central Nervous System. Eyes. Respiratory system. Skin.

Chronic Effects Conjunctiva. May cause central nervous system disorder (e.g. narcosis involving a loss of coordination,

weakness, fatigue, metal confusion and blurred vision) and/or damage.

Main Symptoms Conjunctivitis. Rash. Irritation. De fatting of the skin. Narcosis. Behavioral changes. Decrease in motor

functions.

3. Composition / Information on Ingredients

Components	CAS#	Percent
ALCOHOL DENATURED	64-17-5	< 80
Isobutane	75-28-5	< 10
Hydrofluorocarbon 152A	75-37-6	< 20
Propane	74-98-6	< 2.5

Composition Comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

4. First Aid Measures

First Aid

Eye Contact Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Get medical attention if irritation develops or persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops or persists.

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

Ingestion Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If

vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Do not use mouth-to mouth method if victim ingested the substance. Induce artificial respiration with the aid of a picket mask equipped with a one-way valve or to the proper respiratory medical device. If ingestion of a large

amount does occur, seek medical attention.

Notes to Physician Symptoms may be delayed

General Advice Ensure that medical personnel are aware of the material(s) involved and take precaution to protect

 $themselves. \ Call\ physician\ if\ symptoms\ develop\ or\ persist.\ If\ you\ feel\ unwell,\ seek\ medical\ advice\ (shownormal)$ 

the label where possible)

5. Fire Fighting Measures

Unusual fire & explosion hazards Vapor or gas may spread to distant ignition sources and flash back. Run off to sewer may cause fire or

explosion hazard. Containers may explode when heated.

Suitable extinguishing media Small fires: Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Large fires: Water spray, fog or regular foam.

Firefighting equipment/instructions Wear full protective clothing, including helmet, self contained positive pressure or pressure demand

Material Name: Static Guard Antistatic Spray MSDS MSDS US

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breathing apparatus, protective clothing and face mask. Move container from fire area, if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed inflame. For massive fire, use unmanned hose holders or monitor nozzles, if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound fro venting safety devices or any discoloration of tanks due to fire.

Special protective equipment for fire

fighters

Structural firefighter's protective clothing will only provide limited protection.

Specific methods In the event of fire and/or explosion do not breathe fumes.

Flash Point >-58 °F(>50° C) Propellant
Auto ignition temperature 685.4 °F (362.8 °C) estimated

6. Accidental Release Measures

Containment Procedures Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of

material, if this is without risk. Dike the spilled material where this is possible.

Personal precautions Ventilate closed spaces before entering. Keep unnecessary personnel away. Do not touch or walk

through spilled material. Do not touch damaged containers or spilled material unless wearing

appropriate protective clothing. Keep out of low areas. Stay up wind.

Methods for cleaning up Large spills: Dike far ahead of liquid spill for later disposal. Absorb with earth, sand or other non

combustible material land transfer to containers for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface

thoroughly.

7. Handling and Storage

Handling Do not handle or store near an open flame, heat or other sources of ignition. Vapors may forms

explosive mixtures with air. All equipment used when handling the product must be grounded.

Avoid contact with skin and eyes. Keep away from sources of ignition – No smoking. May be ignited by

open flame. Do not breathe gas/fumes/vapor/spray.

Storage Do not handle or store near an open flame, heat or other sources of ignition. Store in cool place. Keep

in a well ventilated place. This material can accumulate static charge, which may cause spark and become an ignition source. The pressure in sealed containers can increase under the influence of heat. Use care in handling/storage. Keep the container dry. Keep this material away from food, drink and

animal feed. Keep out of the reach of children.

Level 2 Aerosol

8. Exposure control / Personal Protection

Personal Protective Equipment

Respiratory protection No personal respiratory protective equipment normally required. Applicable for industrial setting only.

When workers are facing concentrations over the exposure limit they must use appropriate certified

respirators.

Hand protection Not normally needed

 $\label{lem:continuous} \mbox{Applicable for industrial setting only. Protective gloves.}$ 

Eye Protection Avoid contact with eyes

Applicable for industrial settings only. Wear chemical goggles.

Skin and body protection Not normally needed. Applicable for industrial setting only. Use personal protective equipment as

required.

Engineering measure to reduce

exposure

 $\label{thm:control} \textbf{Use process enclosures, local exhaust ventilation or other engineering controls to control airborne}$ 

levels below recommended exposure limits. Use explosion proof equipment if high dust/air

 $concentrations \ are \ possible. \ Use \ explosion \ proof \ ventilation \ equipment$ 

Hygiene measures Avoid contact with eyes. When using do no smoke. Keep away from food and drink. Handle in

accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Boiling Point >1.04 °F (>-17.2 °C)
Flammability Not available
Form Aerosol

Percent Volatile 90.6097% estimated Vapor Pressure 47-67 psi @70 °F (21.1 °C)

VOC 79.506%

Material Name: Static Guard Antistatic Spray MSDS MSDS US

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10. Chemical Stability & Reactivity Information

Stability Risk of explosion. Risk of ignition.

Incompatibility Acids, Amines, Isocyanates, Strong Oxidizing agents

11. Toxicological information

Toxicology data for the preparation

Local effects Contact may irradiate or burn eyes.

Carcinogenicity

US ACGIH Threshold Limit Values: A4 carcinogen

ALCOHOL DENAT. 64-17-5 Not classifiable as a human carcinogen

Possible reproductive hazard Reproductivity

Chronic toxicity Prolonged exposure may cause chronic effects

**Further Information** Symptoms may be delayed

12. Ecological Information

**Ecotoxicity** This material is not expected to be harmful to aquatic life. Components of this product have been

identified as having potential environmental concerns.

Invertebrate Toxicity: EC50 value

ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>4.58 mg/l 24 h Static Intoxication ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 24 h Static Intoxication ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>100 mg/l 4 h Static Intoxication 64-17-5 Water flea (Daphnia magna)>100 mg/l 2 h Static Intoxication ALCOHOL DENAT. ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>10000 mg/l 24 h Static Intoxication ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>0000 mg/l 48 h Static Intoxication ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)7.7-11.2 mg/l 48 h Static Intoxication Water flea (Daphnia magna)>10100-11200 mg/l 48 h Static Intoxication ALCOHOL DENAT. 64-17-5 ALCOHOL DENAT. 64-17-5 Water flea (Daphnia magna)>12300-13400 mg/l 24 h Static Intoxication 64-17-5 Water flea (Daphnia magna)>100 mg/l 6 h Static Intoxication ALCOHOL DENAT.

Micro-organisms Toxicity: LC50 value ALCOHOL DENAT.

64-17-5

Tubellarian, flatworm (Dugesia tigrina)>100 mg/l 96 h Static Mortality

13. Disposal Considerations

**Waste Codes** D001: Waste Flammable material with a flash pint <140° F (60°C)

Disposal instructions Must be incinerated in a suitable incineration plant holding a permit delivered by the

competent authorities. If discarded, this product is considered a RCRA ignitable waste, D001.

Incinerate the material under controlled conditions in a approved incinerator.

#### 14. Transport Information

Department of Transportation (DOT) Requirements

<=1L (33.8 Fl. Oz.)

Basic shipping requirements:

Proper Shipping name **Consumer Commodity** 

**Hazard Class** ORM-D **Subsidiary Hazard Class** None

Additional information:

Packaging exceptions 156, 306 Packaging non bulk 156, 306 Packaging bulk None **FRG Number** 126

Department of Transportation (DOT) Requirements

Basic shipping requirements:

Proper Shipping name Aerosols, flammable

Hazard Class 2.1 UN1950 **UN Number** 

Additional information:

Special provisions 153, N82 306 **Packaging Exceptions** Packaging Non bulk None Packaging bulk None **ERG Number** 126

IATA

Material Name: Static Guard Antistatic Spray MSDS

MSDS US

3/5 Date of Revision: May 6 2013

<=1L (33.8 Fl. Oz.)

Basic shipping requirements:

Proper Shipping name Consumer Commodity

Hazard Class9Subsidiary Hazard Class3UN NumberID8000Packaging instructions910

IATA

Basic shipping requirements:

Proper Shipping name Aerosols, flammable

Hazard Class 2.1
Subsidiary Hazard Class 6.1
UN Number 1950
Packaging instructions Forbidden

IMDG

Basic shipping requirements:

Proper Shipping name Aerosols, flammable

Hazard Class 2.1
Subsidiary Hazard Class 3
UN Number 1950
Additional Information

Item5FLabels Required2.1Transport Category2

15. Regulatory Information

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29

CFR 1910, 1200

CERCLA/SARA Hazardous Substances - Not applicable

Occupational Safety and Health Administration (OSHA)

29 CFR 1910, 1200 Hazardous Yes

Chemical

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely No

hazardous substance

Section 311 hazardous Yes

chemical

Hazard Categories Immediate Hazard – Yes

Delayed Hazard – Yes Fire Hazard – Yes Pressure Hazard – No Reactivity Hazard - No

HMIS ratings Health: 1\*

Flammability: 4 Physical Hazard: 1

NFPA ratings Health: 1

Flammability: 4 Instability: 1

International Regulations

This product is classified and labeled in accordance with EC directives or respective national laws.

Inventory Status

Country(s) or region Inventory Name On inventory (yes/no)

AustraliaAustralian inventory of Chemical Substance (AICS)NoCanadaDomestic Substance List (DSL)NoCanadaNon Domestic Substance List (NDSL)NoChinaInventory of Existing Chemical Substances in China (IECSC)NoEuropeEuropean Inventory of New and Existing Chemicals (EINECS)No

Material Name: Static Guard Antistatic Spray MSDS MSDS US

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Europe	European Inventory of Notified Chemical Substances (ELINCS)	No
Japan	Japanese Inventory of Existing and New Chemical Substance (ENCS)	No
Korea	Korean Inventory of Chemicals (KICS)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippines Inventory of Chemicals and Chemical Substances(PICCS)	No
United States &	Toxic Substance Control Act (TSCA) Inventory	Yes
Puerto Rico		

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(S) State Regulations

US – New Jersey Community RTK (EHS Survey): Reportable threshold

500 lbs Hydrofluorocarbon 152A 75-37-5 500 lbs 75-28-5 Isobutane 74-98-6 500 lbs Propane

US – Pennsylvania RTK – Hazardous Substances: posted Substance

Alcohol Denatured 64-17-5 Listed Isobutane 75-28-5 Listed Propane 74-98-6 Listed

#### 16. Other information

Disclaimer The information provided in this Safety Data She t 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  $% \left( 1\right) =\left( 1\right) \left( 1\right)$ release and is not to e considered a warranty or quality specification. The information relates

only to the specific material designed and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Issue date 06 May 2013

Material Name: Static Guard Antistatic Spray MSDS MSDS US

> 5/5 Date of Revision: May 6 2013



**Stride Fragrance Free SC Neutral Cleaner** 

HMIS		NFPA	Personal protective equipment
Health	2	2	
Flammability	0	0	None / Aucune / Ninguno
Physical Hazard / Instability	0	0	<u> </u>

Preparation date: 2014-02-14 Version Number: 5

### 1. PRODUCT AND COMPANY IDENTIFICATION

Canadian Headquarters

Diversey, Inc. - Canada

Phone: 1-800-668-3131

Oakville, Ontario L6H 6P1

2401 Bristol Circle

Product name: Stride Fragrance Free SC Neutral Cleaner

MSDS #: MS0200009 **Product Code:** 4240626, 4493981 Recommended use: Neutral cleaner

• This product is intended to be diluted prior to use

Manufacturer, importer, supplier:

**US Headquarters** Diversey, Inc. 8310 16th St. Sturtevant, Wisconsin 53177-1964

Phone: 1-888-352-2249

MSDS Internet Address: www.diversey.com

1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l); Emergency telephone number:

#### 2. HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

CAUTION. CAUSES EYE IRRITATION. MAY BE MILDLY IRRITATING TO SKIN.

Principal routes of exposure: Eye contact. Skin contact. Inhalation. Eye contact: Moderately irritating to the eyes. Skin contact: May be mildly irritating to skin.

Inhalation: None known.

May cause irritation to mouth, throat and stomach. Ingestion:

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 4. FIRST AID MEASURES

Flush immediately with plenty of water. If irritation persists, get medical attention. Eve contact: Skin contact: Flush immediately with plenty of water. If irritation develops, get medical attention.

Inhalation: No specific first aid measures are required. Ingestion: If swallowed, give a cupful of water or milk.

**Aggravated Medical Conditions:** None known.

#### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: The product is not flammable. Extinguish fire using agent suitable for surrounding fire.

Extinguishing media which must not be used for safety reasons: No information available.

Specific hazards: Not applicable. **Unusual hazards:** None known.

Special protective equipment 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**

Not relevant for the product itself. Personal precautions:

**Environmental precautions** Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in and clean-up methods: a chemical waste container. Use a water rinse for final clean-up.

#### 7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY. Storage: Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Engineering measures to reduce exposure:

No special ventilation requirements General room ventilation is adequate

Personal Protective Equipment

Eye protection: No special requirements under normal use conditions. Hand protection: No special requirements under normal use conditions No special requirements under normal use conditions. Skin and body protection: Respiratory protection: No special requirements under normal use conditions.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid Bulk density: No information available

Appearance: Liquid Aqueous solution Evaporation Rate: No information available Specific gravity: 1.01 Color: Clear, Orange

Vapor density: No information available Odor: No Odor/Odorless

Boiling point/range: Not determined Melting point/range: Not determined

Decomposition temperature: Not determined Autoignition temperature: No information available

Solubility: Completely Soluble Density: 8.42 lbs/gal 1.01 Kg/L

Solubility in other solvents: No information available Flash point: > 200 °F > 93.3 °C Partition coefficient (n-octanol/water): No information available Viscosity: No information available

VOC: 0 % Elemental Phosphorus: 0.00 % by wt.

**Dilution pH:** 7 @ 1:256

Explosion limits: - upper: Not determined - lower: Not determined

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

#### 10. STABILITY AND REACTIVITY

Stability: The product is stable

Hazardous polymerization does not occur. Polymerization:

Hazardous decomposition products: None reasonably foreseeable.

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity: Oral LD50 estimated to be greater than 5000 mg/kg. Dermal LD50 estimated to be > 2000 mg/kg.

**Component Information:** See Section 3.

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known Mutagenic effects: None known

Reproductive toxicity: None known Target organ effects: None known

#### 12. ECOLOGICAL INFORMATION

**Environmental Information:** No data available.

### 13. DISPOSAL CONSIDERATIONS

#### Waste from residues / unused products:

Dispose of according to all federal, state and local applicable regulations.

### 14. TRANSPORT INFORMATION

<u>DOT/TDG/IMDG:</u> Please refer to the Diversey HazMat Library, only available through Internet Explorer, http://naextranet.diversey.com/dot/, for up to date shipping information.

DOT (Ground) Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

IMDG (Ocean) Bill of Lading Description: CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

### 15. REGULATORY INFORMATION

#### International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

#### U.S. Regulations

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

#### **RIGHT TO KNOW (RTK)**

Ingredient(s)	CAS#	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	ı	•	ı	•
Alcohol ethoxylates	68439-46-3	-	-	-	-

#### CERCLA/ SARA

SARA 311/312 Hazard Categories

Immediate: x
Delayed: Fire: Reactivity: Sudden Release of Pressure: -

<u>Canada</u>

WHMIS hazard class: D2B Toxic materials.



### **16. OTHER INFORMATION**

Reason for revision: Not applicable Prepared by: NAPRAC

Additional advice: • Does not contain an added fragrance

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond 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.

MATERIAL SAFETY DATA SHEET (OSHA 174 Sept 1985 Format).

Product Identity (Label Name) Summit Bti Briquets

SECTION 1

KINZUA ENVIRONMENTAL INC. 1176 EAST 38TH STREET CLEVELAND, OHIO 44114

1-800-233-5079

EMERGENCY NUMBER: 1-800-424-9300 CHEMTREC

Date Prepared 01-20-2006 EPA NO. 6218-47 **SUMMIT** 

SECTION 2 Hazardous Ingredients/ Identity Information

Hazardous Components. OSHA PEL

ACGIH TLV

OTHER LIMITS

NO HAZARDOUS OR TOXIC COMPONENTS.

SECTION 3 Physical Characteristics

Boiling Pt. N/A

Vap. Press. N/A

Vap. Density. N/A

Solubility in water. N/A

Appearance.

Odor.

Sp. Gravity. LESS DENSE THAN WATER.

Melt. Pt. NONE.

Evap. Rate. N/A

LIGHT BROWN DONUT - SHAPED DISKS.

ESSENTIALLY NONE.

SECTION 4 Fire and Explosion Hazard Data

Flash Point. NONE.

Method Used.

Flammable Limits. L.E.L. NONE.

U.E.L. NONE.

Extinguishing Media.

WATER, CONVENTIONAL FIRE EXTINGUISHERS.

Special Fire Fighting Procedures

NONE

Unusual Fire and Explosion Hazards. NONE

SECTION 5 Reactivity Data

Stability.

Stable |X| Unstable | |

Conditions to Avoid.

PROTECT BRIQUETS FROM MOISTURE DURING STORAGE.

Incompatibility (Materials to Avoid).

ALKALINE CONDITIONS ABOVE PH 9 MAY DENATURE PRODUCT.

Hazardous Decomposition Products.

NONE.

Hazardous Polymerization.

WILL NOT OCCUR.

Conditions to avoid.

NONE.

SECTION 6 Health Hazard Data

Routes of Entry.

Inhalation? NO.

Skin?

NO.

Ingestion?

NO.

Health Hazards (Acute and Chronic).

NONE KNOWN.

Carcinogenicity.

NTP?

NO.

IARC Monograph? NO.

OSHA Regulated? NO.

Signs and Symptoms of Exposure.

NO EXPOSURE HAZARD.

Medical Conditions Generally Aggravated by Exposure.

NONE KNOWN.

Emergency and First Aid Procedures.

NONE REQUIRED.

SECTION 7 Precautions For Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled. CLEAN UP WITH SOAP AND WATER.

Waste Disposal Method.

CONVENTIONAL TRASH REMOVAL AND LAND FILL DISPOSAL.

Precautions to Be Taken in Handling and Storage. STORE IN A COOL DRY PLACE.

Other Precautions.

RESEAL OPENED CONTAINERS AFTER PARTIAL USE.

### SECTION 8 Control Measures

Respiratory Protection (Specify Type). NONE NEEDED.

Ventilation.

Local Exhaust?

NONE NEEDED.

Mechanical?

NONE NEEDED.

Special? Other?

Protective Clothing.

NONE NEEDED, WEAR NORMAL WORK CLOTHES.

Gloves?

NONE NEEDED.

Eye Protection? NONE NEEDED.

Clothes?

NONE NEEDED.

Work/Hygienic Practice.

NO SPECIAL PRACTICES NEEDED.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



IMPERIAL Toy LLC 16641 Roscoe Place North Hills, CA 91343

Product Information Telephone 818-536-6500 (9:00 am to 6:00 pm EST)

Transportation Emergency Telephone

800-424-9300

CHEMTREC (24 Hours Everyday)

### 1. PRODUCT INFORMATION

**Product Name** Super Miracle Bubbles (SMB)

**Chemical Name Proprietary Mixture** 

**CAS Number** NA **Synonyms** NA

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

MATERIAL	WT. %	CAS NO.	OSHA PEL	ACGIH TLV
Glycol ethers	<0.4		No Data	No Data
Proprietary Ingredients			No Data	No Data

### 3. HAZARDOUS IDENTIFICATION

### **EMERGENCY OVERVIEW**

DANGER: Odorless light straw-colored liquid. May cause moderate eye irritation. May cause skin

irritation.

### **POTENTIAL HEALTH EFFECTS**

**Eyes** May cause moderate eye irritation. May cause corneal injury.

Skin Prolonged contact can cause irritation.

Single-dose oral toxicity is expected to be low. Small amounts swallowed incidental Ingestion

to normal handling operations are not likely to cause injury; swallowing amounts

larger than that may cause injury.

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**Inhalation** At room temperature, exposures to vapors are minimal due to physical properties;

higher temperatures may generate vapor levels sufficient to cause irritation.

Chronic Effects/
Carcinogenicity

This material is not considered to be a carcinogen by the National Toxicology Program, the International Agency for Research of Cancer, or the Occupational

Safety and Health Administration.

Medical Conditions Aggravated by Exposure Material and its emissions may aggravate preexisting eye disease.

Primary Routes of

Skin, eyes

**Entry** 

#### 4. FIRST AID MEASURES

Eyes Immediately flush eyes thoroughly and continue to repeatedly flush eyes with constantly running

water for 15 minutes, lifting the upper and lower eyelids occasionally. Consult a physician.

Skin Immediately flush skin thoroughly and continue to repeatedly flush skin with constantly running

water for 15 minutes. Remove contaminated clothing and shoes; wash before reuse. Seek

medical attention if irritation persists.

**Ingestion** If patient is conscious and can swallow, give two glasses of water. Seek medical attention.

Induce vomiting only if directed by medical personnel.

**Inhalation** Remove to fresh air. Give artificial respiration if not breathing. Administer oxygen if breathing is

difficult. Consult physician.

### 5. FIRE FIGHTING MEASURES

Flash Point: >200 F

Autoignition Temperature: No data

Flammable Limits (% by Vol.)

Lower (LEL): No data Upper (UEL): No data

Extinguishing Media CO2, dry chemical, BC/ABC extinguishers.

**Unusual Fire and Explosion** 

**Hazards** 

None known

Special Instructions Fire fighters should wear self-contained breathing apparatus and full

protective clothing.

#### 6. ACCIDENTAL RELEASE

**Action to Take for Spills or Leaks:** Contain liquid to prevent contamination of soil surface water or ground water. Cleanup with absorbent material. Collect material in suitable a properly labeled containers.

**Disposal Methods:** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Consult appropriate federal, state, and/or local regulatory agencies to

ascertain proper disposal procedures.

#### 7. HANDLING AND STORAGE

Handling: Do not eat, drink, or smoke in working areas.

**Storage:** Store in a cool, dry, well-ventilated place away from incompatible materials. Keep closed when not

in use.

#### 8. EXPOSURE CONTROL/PERSONAL PROTECTION

**Respiratory** For most conditions, no respiratory protection should be needed. However, if handling at

elevated temperatures without sufficient ventilation, use a NIOSH-approved air-purifying

respirator.

**Skin** Chemical resistant gloves and work clothes.

**Eye** Wear safety glasses where no contact with the eyes is anticipated. Chemical splash

goggles should be worn whenever there is the possibility of splashing or other eye contact.

**Ventilation** Good general ventilation should be sufficient for most conditions. Local exhaust ventilation

may be necessary for some operations.

Other An eyewash and safety shower should be nearby and ready for use.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance/Color: Light straw-colored

**Odor:** Odorless

Freeze Point, °F: Not Known
Boiling Point, °F: Not Known

**Solubility:** Complete **Evaporation Rate:** NA

**Specific Gravity (H20 = 1)**: 1.006

**pH:** 7.48 neat

#### 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Elevated temperatures.

**Avoid** 

Incompatible Materials

Avoid contact with oxidizing materials.

Decomposition (or Byproducts)

None known

### 11. TOXICOLOGICAL INFORMATION

Oral No data

**Inhalation** No data

**Dermal** No data

**Carcinogenicity** This material is not considered to be a carcinogen by the National Toxicology

Program, the International Agency for Research of Cancer, or the Occupational

Safety and Health Administration.

### 12. DISPOSAL CONSIDERATIONS

Any disposal practice must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency for specific rules).

### 13. TRANSPORTATION INFORMATION

Proper Shipping Name Not regulated

DOT Hazard Class NA
DOT Shipping I.D. Number NA
Packaging Group NA
DOT Label NA

#### 15. REGULATORY INFORMATION

THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY OF CHEMICAL SUBSTANCES.

# CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980, SECTION 103)

The following components of this product are listed as hazardous substances in 40 CFR 302.4 (unlisted hazardous substance are not identified) and are present at levels which could require reporting:

None

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTIONS 302 AND 304

The following components of this product are listed as extremely hazardous substances in 40 CFR Part 355 and are present at levels which could require reporting and emergency planning:

None

### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313

The following components of this product are listed as toxic chemicals in 40 CFR 372.65 and are present at levels which could require reporting and customer notification under Section 313 and 40 CFR part 372:

ComponentCAS#%Glycol EthersNA< 16.0</td>

#### SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTIONS 311 AND 312

Delayed Hazard: Yes Fire Hazard: No

Immediate Health Hazard: Yes

Reactive Hazard: No

Sudden Release of Pressure Hazard: No

#### 16. OTHER INFORMATION

HEALTH FIRE REACT. PROTECTION

**HMIS** 0 0 0 X

NOTE: 4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=INSIGNIFICANT

THE ABOVE INFORMATION IS BASED ON DATA AVAILABLE TO US AND CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL. As the information contained HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL AND WITH WHICH WE ARE UNFAMILIAR, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. ALL LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR FROM THE USE OF THIS INFORMATION OR THE MATERIAL TO WHICH IT REFERS IS SPECIFICALLY DISCLAIMED. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSONS RECEIVING IT SHALL MAKE THEIR OWN DETERMINATIONS OF THE EFFECTS PROPERTIES AND PROTECTIONS, WHICH PERTAIN TO THEIR PARTICULAR CONDITIONS. THIS IS NEITHER A LICENSE UNDER ANY APPLICABLE PATENTS NOR AN ASSURANCE OF FREEDOM FROM CLAIMS UNDER ANY PENDING OR ISSUED PATENT. ALL WARRANTIES AGAINST PATENT INFRINGEMENTS ARE SPECIFICALLY DISCLAIMED.

MSDS PREPARED BY:

IMPERIAL Toy LLC 16641 Roscoe Place North Hills, CA 91343

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

#### Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

Product Number: A00223
Product Use: Disinfectant.

**Manufacturer/Supplier:** Staples Contract & Commercial, Inc.

500 Staples Drive,

Framingham, MA 01702 USA

**Phone Number:** 1-888-322-0912

**D.O.T. Emergency Phone:** 1-888-322-0912 (24-hours, 7 days a week)

Date of Preparation: August 31, 2010 Revision #: 2.1

#### **Section 2: HAZARDS IDENTIFICATION**

HMIS: See Section 15

#### **EMERGENCY OVERVIEW**

DANGER

EXTREMELY FLAMMABLE. HARMFUL BY INHALATION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

Potential Health Effects: See Section 11 for more information.

Likely Routes of Exposure: Skin contact, eye contact, inhalation, and ingestion.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**Inhalation:** May cause respiratory tract irritation. This product may be aspirated into the

lungs and cause chemical pneumonitis.

Chronic Effects: Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

Target Organs: Skin, eyes, gastrointestinal tract, respiratory system.

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

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS#	Wt. %
Ethanol	64-17-5	30 - 60
Isobutane	75-28-5	10 - 30
Propane	74-98-6	1 - 5
Isopropanol	67-63-0	1 - 5
o-Phenylphenol	90-43-7	0.1 - 1

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

#### **Section 4: FIRST AID MEASURES**

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do,

remove contact lenses, if worn.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Wash clothing before reuse. Call a physician

if irritation develops and persists.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person.

General Advice: In case of accident or if you feel unwell, seek medical advice immediately

(show the label or MSDS where possible).

Note to Physicians: Symptoms may not appear immediately.

#### **Section 5: FIRE FIGHTING MEASURES**

Flammability: Flammable by WHMIS criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, water spray, foam, carbon dioxide.

Unsuitable Extinguishing Media: Not available.

Products of Combustion: May include, and are not limited to: oxides of carbon.

**Explosion Data:** 

Sensitivity to Mechanical Impact: Not available.

Sensitivity to Static Discharge: Not available.

Protection of Firefighters: Containers may explode when heated. Keep upwind of fire. Wear

full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.

**Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** 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 Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.

Other Information: Not available.

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

#### Section 7: HANDLING AND STORAGE

### Handling:

Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using, do not eat or drink. Wash hands before eating, drinking, or smoking.

#### Storage:

Keep out of the reach of children. Do not store at temperatures above  $49^{\circ}$  /  $120^{\circ}$ . Keep away from food, drink and animal foodstuffs.

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

#### **Exposure Guidelines**

**Exposure Limits OSHA-PEL** Ingredient **ACGIH-PEL** Ethanol 1000 ppm 1000 ppm Isobutane Not available. Not available. **Propane** 1000 ppm 1000 ppm 400 ppm 200 ppm Isopropanol o-Phenylphenol Not available. Not available.

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Personal Protective Equipment: HMIS: See Section 15

**Eye/Face Protection:** Wear eye/face protection.

Hand Protection: Wear suitable gloves.

Skin and Body Protection: Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory

equipment.

General Hygiene Considerations: Handle according to established industrial hygiene and

safety practices.

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

Appearance: Clear.

Colour: Colourless.

Odour: Characteristic.

Odour Threshold: Not available.

Physical State: Gas/Pressurized Liquid.

**pH**: 10-11

Viscosity:

Freezing Point:

Boiling Point:

Flash Point:

Evaporation Rate:

Lower Flammability Limit:

Not available.

Not available.

Not available.

Not available.

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

Upper Flammability Limit:Not available.Vapor Pressure:Not available.

Vapor Density: Not available.

**Specific Gravity:** 0.895 (Concentrate only)

Solubility in Water:Complete.Coefficient of Water/Oil Distribution:Not available.Auto-ignition Temperature:Not available.

**VOC content, wt. %:** 66% (US federal/CARB/OTC/LADCO)

#### Section 10: STABILITY AND REACTIVITY

Not available.

Stability: Stable under normal storage conditions. Contents under pressure. Container may

explode if heated. Do not puncture. Do not burn. Keep in a cool place.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Oxidizers. Reducing agents. Ammonium salts.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon. **Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

### **Section 11: TOXICOLOGY INFORMATION**

#### **EFFECTS OF ACUTE EXPOSURE**

#### **Component Analysis**

Percent Volatile, wt. %:

Ingredient	LD <sub>50</sub> (oral)	LC <sub>50</sub>
Ethanol	7060 mg/kg, rat	20000 ppm 10hr, rat
Isobutane	Not available.	658 mg/L 4hr, rat
Propane	Not available.	658 mg/L 4hr, rat
Isopropanol	4396 mg/kg, rat	72.6 mg/L 4hr, rat
o-Phenylphenol	1049 mg/kg, rat	> 0.949 mg/L 1hr, rat

Eye: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking

and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Symptoms may include redness, edema, drying,

defatting and cracking of the skin.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

Inhalation: Harmful by inhalation. May cause respiratory tract irritation. This product may be

aspirated into the lungs and cause chemical pneumonitis.

#### **EFFECTS OF CHRONIC EXPOSURE**

Target Organs: Not available.

**Chronic Effects:** Not hazardous by OSHA/WHMIS criteria. **Carcinogenicity:** Hazardous by OSHA/WHMIS criteria.

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

Ingredient Chemical Listed as Carcinogen or Potential Carcinogen \*

EthanolG-A3, I-1IsobutaneNot listed.PropaneNot listed.IsopropanolG-A4, I-3o-PhenylphenolI-3, CP65

\* See Section 15 for more information.

Mutagenicity: Hazardous by OSHA/WHMIS criteria.

Reproductive Effects: Not hazardous by OSHA/WHMIS criteria.

**Developmental Effects:** 

**Teratogenicity:** Hazardous by OSHA/WHMIS criteria. **Embryotoxicity:** Hazardous by OSHA/WHMIS criteria.

Respiratory Sensitization: Not hazardous by OSHA/WHMIS criteria.

Skin Sensitization: Not hazardous by OSHA/WHMIS criteria.

Toxicologically Synergistic Materials: Not available.

### **Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment

Persistence / Degradability: Not available.

Bioaccumulation / Accumulation: Not available.

**Mobility in Environment:** Not available.

#### Section 13: DISPOSAL CONSIDERATIONS

### **Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

#### **Section 14: TRANSPORTATION INFORMATION**

#### **DOT Classification**

ORM-D; Limited Quantity

#### **TDG Classification**

Limited Quantity

#### Section 15: REGULATORY INFORMATION

#### **Federal Regulations**

**Canada:** 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.

US: MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

### **SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
Ethanol	Not listed.	Not listed.	Not listed.	Not listed.
Isobutane	Not listed.	Not listed.	Not listed.	Not listed.
Propane	Not listed.	Not listed.	Not listed.	Not listed.
Isopropanol	Not listed.	Not listed.	Not listed.	313
o-Phenylphenol	Not listed.	Not listed.	Not listed.	313

### **State Regulations**

### **California Proposition 65:**

This product contains a chemical known to the state of California to cause cancer.

#### **Global Inventories**

Ingredient	Canada DSL/NDSL	USA TSCA
Ethanol	DSL	Yes.
Isobutane	DSL	Yes.
Propane	DSL	Yes.
Isopropanol	DSL	Yes.
o-Phenylphenol	DSL	Yes.

### **HMIS - Hazardous Materials Identification System**

Health - 2\* Flammability - 3 Physical Hazard - 0 PPE - B

### **NFPA - National Fire Protection Association:**

Health - 2 Fire - 3 Reactivity - 0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

### WHMIS Classification(s):

Class A - Compressed Gas Class B5 - Flammable Aerosol Class D2A - Carcinogenicity Class D2A - Mutagenicity

Class D2A - Teratogenicity and embryotoxicity

Class D2B - Skin/Eye Irritant

### **WHMIS Hazard Symbols:**







Surface Disinfectant and Deodorant (STP-18481)(BPR223A16)

#### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) Occupational Safety and Health Administration.

ACGIH (G) American Conference of Governmental Industrial Hygienists.

A1 - Confirmed human carcinogen.

A2 - Suspected human carcinogen.

A3 - Animal carcinogen.

A4 - Not classifiable as a human carcinogen. A5 - Not suspected as a human carcinogen.

IARC (I) International Agency for Research on Cancer.

1 - The agent (mixture) is carcinogenic to humans.

2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in

humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

NTP (N) National Toxicology Program.

1 - Known to be carcinogens.

2 - Reasonably anticipated to be carcinogens.

#### Section 16: OTHER INFORMATION

#### 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.

Expiry Date: August 31, 2013

Prepared by: Nexreg Compliance Inc.

Prepared for: Staples Contract & Commercial, Inc. - Phone: 1-888-322-0912

### **ENVIROCIDE**

### Surface Disinfectant/Decontaminant Cleaner

#### 1 - IDENTIFICATION

Manufacturer:Metrex ResearchAddress:28210 Wick RoadCity, State, Zip:Romulus, MI 48174Telephone:1-800-841-1428

**Emergency:** Chemtrec 1- 800-424-9300

**Date Prepared:** August 2009

### 2 - COMPOSITION INFORMATION

### **Hazardous Ingredients**

 CAS #
 PEL
 TLV
 %

 Isopropanol
 67-63-0
 400ppm
 N/A
 10-20

 Ethylene Glycol Monobutyl Ether
 111-76-2
 50ppm
 25ppm
 1-5

#### **Other Ingredients**

Water and other inert ingredients

### 3 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 191 °F

Specific Gravity ( $H_20 = 1$ ): 0.970 at 25 °C Vapor Pressure (mm Hg): Similar to water Vapor Density (AIR = 1): Similar to water

Freezing/Melting Point: -10°C Solubility in Water: 100%

Appearance and Odor: Clear to amber liquid with minty odor

**pH:** 11.00 - 12.49

#### 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 83°F (ASTM D-93) Closed Cup

Flammable Limits: LEL: N/A UEL: N/A

Extinguishing Media: Carbon dioxide, dry chemical, foam

Special Fire Fighting Procedures: N/A Unusual Fire and Explosion Hazards: N/A

#### **5 - REACTIVITY DATA**

**Stability:** Stable solution

Conditions to Avoid: Avoid temperatures above 120 °F and

evaporation of water.

Incompatibility (Material to Avoid): Acids

Hazardous Decomposition Byproducts: Oxides of carbon

Hazardous Polymerization: Will not occur.

### 6 - HEALTH HAZARD DATA

**Routes of Entry:** 

Skin: Not considered an irritant.

Eyes: Contact with eyes can cause reversible damage.

Inhalation: Low or mild irritation
Ingestion: May be harmful if swallowed.
Carcinogenicity - NTP: No

IARC Monographs: No OSHA Regulated Carcinogen: No

### 7 - EMERGENCY FIRST AID PROCEDURES

**Skin:** Wash skin with soap and water.

 $\textbf{Eyes:} \ \ \textbf{Flush with water for 15 minutes. If irritation persists, seek}$ 

medical attention.

Inhalation: Remove to fresh air. If irritation persists, seek medical

attention.

Ingestion: Do not induce vomiting. Give large amounts of water.

Seek medical attention.

### 8 - PRECAUTIONS FOR SAFE HANDLING & USE

**Steps to be taken in case material is released or spilled:** Ventilate area. Wipe or absorb with inert material and transfer to suitable container for disposal in accordance with federal, state and local regulations.

Waste Disposal Method: Wastes resulting from the use of this product must be disposed of in accordance with federal, state, and local regulations. Triple rinse empty container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by state and local authorities, by burning. If burned, keep out of smoke.

**Precautions to be taken in Handling and Storing:** Store product in original sealed container at room temperature.

**Other Precautions:** Keep out of reach of children. Do not ingest. Avoid eye contact and contamination of food.

#### 9 - CONTROL MEASURES

**Respiratory Protection:** Use in a well-ventilated area.

**VENTILATION:** 

Local Exhaust: Adequate ventilation to maintain recommended

exposure limit.

Mechanical (General): Should be sufficient Protective Gloves: Not required if used as directed. Eye Protection: Not required if used as directed.

**Work/Hygiene Practices:** Handle in accordance with good personal hygiene and safety practices. These practices include avoiding

unnecessary exposure.

#### 10 - TRANSPORTATION INFORMATION

#### DOT:

This product is not regulated by DOT for ground transportation under the aqueous alcohol exemption per 49 CFR 173.150 (E)(1)(2).

#### IATA, IMO:

Proper Shipping Name: Alcohol n.o.s. (Isopropanol, aqueous solution)

Hazard Class:3Identification Number:1987Packaging Group:III

Label: Flammable Liquid

### 11 - SPECIAL INFORMATION

HMIS (Hazardous Material Identification System) Rating:

H1 F2 R0

[HMIS Hazard Index: 4 – Severe Hazard; 3 – Serious Hazard; 2 – Moderate Hazard; 1 – Slight Hazard; 0 – Minimum Hazard]

Note: This MSDS was prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and is to be used only for this product. The information contained in this MSDS is, to the best of our knowledge, believed to be accurate.



# SAFETY DATA SHEET

Issuing date 11-Oct-2011 Revision Date 05-Feb-2015 Version 1

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

Product identifier

Product name Swisher Lemon Kleen Disinfectant

Other means of identification

 Product Code
 41762-1

 UN/ID No
 UN1903

 Document
 41762-1

Recommended use of the chemical and restrictions on use

Recommended use Disinfectant

### Details of the supplier of the safety data sheet

**Distributor** 

Swisher Hygiene Inc. 4725 Piedmont Row Drive Suite 400 Charlotte, NC 28210

Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC: 1-800-424-9300 (NORTH AMERICA)

1-703-527-3887 (INTERNATIONAL)

Company Phone Number 800-444-4138

### 2. HAZARDS IDENTIFICATION

### Classification

### **OSHA Regulatory Status**

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

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

#### Label elements

**Emergency Overview** 

Danger

**Hazard Statements** 

Causes skin irritation

Causes serious eye damage



Appearance Thin Liquid

Physical state Liquid

**Odor** Citrus

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

- · Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

- Immediately call a POISON CENTER or doctor/physician
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN: Wash with plenty of soap and water
- · If skin irritation occurs: Get medical advice/attention
- · Take off contaminated clothing and wash before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store in a well-ventilated place

### **Precautionary Statements - Disposal**

Dispose of contents/container to approved disposal facility

### Hazards not otherwise classified (HNOC)

Other information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

Chemical Name	CAS-No	Weight-%	Trade Secret
Sodium carbonate	497-19-8	2.5% - 10%	*
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	85409-23-0	1.60	*
C12-14-16-18 alkylbenzyldimethylammonium chloride	68391-01-5	1.60	*
Alcohols, C9-11, ethoxylated	68439-46-3	2.5% - 10%	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

### First aid measures for different exposure routes

41762-1 Swisher Lemon Kleen Disinfectant

Revision Date 05-Feb-2015

General advice Show this safety data sheet to the doctor in attendance. Have the product container or label

with you when calling a poison control center or doctor or going for treatment.

Eye contact Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact

lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control

center or doctor for treatment advice.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call poison control center or doctor for treatment advice.

Inhalation If symptoms are experienced, move victim to fresh air. If person is not breathing call 911 or

an ambulance, then give artificial respiration. Call a poison control center or doctor for

further 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person. .

Most important symptoms/effects, acute and delayed

**Main Symptoms** The most important known symptoms and effects are described in the labelling in section 2

and/or in section 11.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Probable mucosal damage may contraindicate the use of gastric lavage.

#### 5. FIRE-FIGHTING MEASURES

#### **Suitable Extinguishing Media**

Water Fog, Foam, CO2 or Dry Chemical.

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

### Specific hazards arising from the chemical

Do not cut containers with a torch as explosion may result.

**Explosion Data** 

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

### **Protective Equipment and Precautions for Firefighters**

Liquid is soluable in water & easily diluted.

### 6. ACCIDENTAL RELEASE MEASURES

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

**Personal precautions** Ensure adequate ventilation. Avoid contact with the skin and the eyes. Use personal

protective equipment. Use respiratory protective device against the effects of

fumes/dust/aerosol.

Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

**Methods for Containment** Transfer contaminated absorbent, soil and other materials to containers for disposal.

Methods for cleaning up

Stop spill or leak if it can be done safely. Contain spill to smallest possible area. Large spills

should be recovered for disposal.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Do not eat, drink or smoke when using this product. Use good personal hygiene practices.

Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly

after work using soap and water.

#### Conditions for safe storage, including any incompatibilities

Technical measures/Storage

conditions

Non-refillable container. Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store this product away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Store at

temperatures between 50 °F and 120°F.

Incompatible products Strong oxidizing agents. Strong acids.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Review Section 3 & 4 for Exposure Guidelines.

Appropriate engineering controls

**Engineering Measures** Ensure adequate ventilation and that running water is available for washing eyes and skin Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Splash-proof chemical goggles or face shield.

Skin and body protection Impervious rubber, alkali-proof protective gloves. Impervious rubber boots & apron..

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 Do not eat, drink or smoke when using this product. Practice good personal hygiene. Wash

after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

Physical state

Liquid

**Appearance** Color

Thin Liquid Yellow

**Odor Threshold** 

Remarks • Methods

Odor

Citrus No information available

Property **Values** 

Ha Melting/freezing point 10.0 - 12.0

No information available No information available

No information available

Flash Point **Evaporation rate** 

Boiling point/boiling range

No information available

Flammability (solid, gas) No information available

Flammability Limits in Air

**Upper flammability limit** No information available Lower flammability limit No information available

Vapor pressure No information available Same as water Vapor density No information available Same as water

**Specific Gravity** 1,02 - 1,05 g/cm<sup>3</sup> @°20 Water solubility Completely Soluble Solubility in other solvents No information available Partition coefficient: n-octanol/waterNo information available **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available

**Explosive properties** Not explosive **Oxidizing Properties** Not an oxidizer

### **Other information**

Softening point No information available Molecular Weight No information available VOC Content(%) No information available **Density VALUE** No information available **Bulk Density VALUE** No information available

### 10. STABILITY AND REACTIVITY

#### **Chemical stability**

Stable.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to Avoid**

High Temperatures.

### **Incompatible Materials**

Strong oxidizing agents. Strong acids.

#### **Hazardous Decomposition Products**

Toxic hydrogen chloride, oxides of carbon & nitrogen. Toxic gases/fumes are given off during burning or thermal decomposition.

### 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** Causes serious eye damage Causes skin irritation

Inhalation No known effect based on information supplied.

Eye contact Causes serious eye irritation. Serious eye damage.

Skin contact Irritating to skin.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m <sup>3</sup> (Rat) 2 h
Alcohols, C9-11, ethoxylated 68439-46-3	= 1400 mg/kg (Rat) = 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	-

#### Information on toxicological effects

**Symptoms** No information available.

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

SensitizationNo information available.Mutagenic effectsNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.STOT - single exposureNo information available.STOT - repeated exposureNo information available.Aspiration hazardNo information available.

Numerical measures of toxicity - Product Information

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h	265: 48 h Daphnia magna mg/L EC50
		Pimephales promelas mg/L LC50	
		static	

#### Persistence and degradability

No information available.

### **Bioaccumulation**

No information available.

Other adverse effects No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste

Representative at the nearest EPA Regional Office for guidance on proper disposal of

waste product.

Contaminated packaging Non-refillable container. Empty containers should be triple rinsed, then offered for

recycling or reconditioning; or puncture and dispose of in a sanitary landfill. . .

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium carbonate	Corrosive
497-19-8	

### 14. TRANSPORT INFORMATION

Note NA1903, Disinfectant liquids, Corrosive, (contains quaterary ammonium compounds), 8,

PG III, LTD QTY

DOT Regulated **UN/ID No** UN1903 Proper shipping name Not regulated

**Hazard class Packing Group** Ш

### 15. REGULATORY INFORMATION

International Inventories

**TSCA** Complies

DSL/NDSL **EINECS/ELINCS** 

**ENCS** 

**IECSC** Complies

**KECL PICCS AICS** 

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the United States Toxic Substances Control Act Section

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

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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

AICS - Australian Inventory of Chemical Substances

#### 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** nο **Sudden Release of Pressure Hazard** nο **Reactive Hazard** nο

### **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).

#### **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.

### U.S. 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

#### **EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. This product is toxic to fish.

### **16. OTHER INFORMATION**

NFPA Health Hazards 2 Flammability 0 Instability 0 Physical and chemical hazards -

Health hazard 2 Flammability 0 Physical Hazards 0 Personal protection X

**Prepared By** Swisher Hygiene Inc.

4725 Piedmont Row Drive

Suite 400

Charlotte, NC 28210

Issuing date11-Oct-2011Revision Date05-Feb-2015

**Revision Note** 

2

#### **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



Mueller Sports Medicine, Inc.

One Quench Drive, Prairie du Sac, WI 53578 USA

Phone: (608) 643-8530 or 1-800-356-9522 Fax: (608) 643-2568 or 1-800-852-4334

SDS Date: October 1, 2014 Supercedes Date: September 6, 2011

Product Name: Tape & Tuffner® Pre-Tape Spray Remover Aerosol, 10oz

Product Number: 200115

### **SECTION 1** — Product and Company Description

Mueller Sports Medicine, Inc.

One Quench Drive, Prairie du Sac, WI 53578 USA

Phone: (608) 643-8530 or 1-800-356-9522 Fax: (608) 643-2568 or 1-800-852-4334

#### For Product Information:

1-800-356-9522

### For medical emergency assistance:

Infotrac . Chemical Emergency Response System

U.S.: (352) 323-3500

Chemical name or Synonym: Pressurized solution of solvents.

### **SECTION 2** — Chemical Composition

Hazardous Components	CAS#	OSHA TWA	ACGIH TWA	Percent
Heptane	64742-49-0	400 ppm	400 ppm	<45
Isopropyl Alcohol (99%)	67-63-0	400 ppm	200 ppm	<18
d-Limonene	5989-27-5	NE	NE	<11
n-Butane	106-97-8	None	1000 ppm	<21
Propane	74-98-6	1000 ppm	1000 ppm	<10

### SECTION 3 — HAZARDS IDENTIFICATION

NFPA Fire: 4 Health: 2 Reactivity: 1

### SECTION 4 — FIRST AID MEASURES

Flush eyes or skin with large quantities of water for a minimum of 15-20 minutes. If irritation persists, seek medical attention immediately. If difficulty breathing, remove from exposure area to a source of fresh air. If breathing difficulties do not subside, seek medical attention immediately. If ingested, drink several glasses of water or milk (if available) and seek medical attention. **DO NOT INDUCE VOMITING.** Never give anything by mouth to a person who is unconscious.

### **SECTION 5 — FIRE FIGHTING MEASURES**

Flash Point (Method): 20°F

Flammable Limits: Lel . Unknown, Uel . Unknown Extinguishing Media: Water, CO2, Foam, Dry Chemical

Unusual Fire and Explosion Hazard: FLAMMABLE AEROSOL: Temperatures in excess of 120°F may cause bursting. Inevent of

fire ruptured cans contribute flammable materials.

Special Fire-Fighting Precautions: Keep aerosols cooled to prevent bursting.

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Eliminate all potential sources of ignition. Contain and collect any free liquid with an inert/absorbent material.

Waste Disposal Method: Dispose of in accordance with all applicable Federal, State and local regulations.

Potential EPA Hazardous Waste Codes(s): D001

### SECTION 7 — HANDLING AND STORAGE

**Steps to be taken in handling and storage**: NFPA % EVEL 3 AEROSOLS + Do not spray near heat, sparks, or open flame. Store at 40-90°F. Follow label use directions.

KEEP OUT OF THE REACH OF CHILDREN.

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

Routes of Entry: Inhalation, Skin, Eye, Ingestion

Irritates: Kidneys, Eyes, Skin, Liver, Central Nervous System, Mucous Membrane, and Respiratory System.

Carcinogenicity: None Known

Medical Conditions Generally Aggravated by Exposure: None Known.

#### Signs and Symptoms of Exposure:

Skin and eye contact may cause irritation to mild burn like symptoms. Direct contact with propellant may cause symptoms similar to frostbite like exposure. Inhalation of vapors may cause respiratory tract irritation. Any accidental ingestion may cause irritation to the mouth and throat. Ingestion of product may cause an aspiration type hazard.

### **Personal Protective Equipment:**

Ventilation: Local Exhaust: Recommended Mechanical: Recommended Special: Not Required

Respiratory (specify type): Use NIOSH/MSHA approved respirator with chemical cartridge, airline or SCBA as

appropriate.

Eye Protection: Recommended.

Gloves: Recommended.

Other Protective Clothing and Equipment: Not Required

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

#### Flammable Aerosol

Appearance: Clear liquid with citrus odor

Vapor Pressure: 30 psig

Specific Gravity (water =1): 0.7326 Solubility in Water: Insoluble Boiling Point: Not Established Vapor Density: Not Established Evaporation Rate: Not Established

pH: Not Applicable

%Volatiles by Weight: 100

### **SECTION 10 — STABILITY AND REACTIVITY**

Chemical Stability: Stable

Incompatibility with Other Substances: Oxidizers

Hazardous Decomposition Products: With extreme heat or fire typical hydrocarbon by-products are released.

Hazardous Polymerizations: Will not occur. Volatile Organic Compounds (VOC) = 100%

### **SECTION 11 — TOXICITY TESTS**

None

### **SECTION 12 — ENVIRONMENTAL TESTS**

None

### SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable Federal, State and local regulations.

### SECTION 14 — TRANSPORT INFORMATION

DOT Proper Shipping Name and Number: Consumer Commodity, ORM-D

Aerosols (UN1950 Aerosols, Class 2.1, Limited Quantity)

### **SECTION 15 — REGULATORY INFORMATION**

**OSHA Compliance**: MSDS prepared in accordance with 29CFR 1910.1200 to comply with the OSHA Hazard Communication Standard.

### **SECTION 16 — OTHER INFORMATION**

None.



# Safety Data Sheet

# **Teknar® HP-D**

1	Identification of the preparation and the supplying Company	Teknar® HP-D Killgerm Chemicals Ltd, Denholme Drive, Ossett, West Yorkshire, WF5 9NA. Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com			
2	Hazards identification	Tel: +44 (0)1: Not classified.	924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com		
3	Composition and information on				
-	ingredients	Bacillus thuringiensis var israeliensis			
		(serotype H - 14) co Other components	ontains 3000 AA units per mg 1.6%w/w 98.4%w/w		
4	First Aid measures	Ingestion: Wash out mouth with water. Get medical attention.  Inhalation: Move to fresh air.			
		Skin contact:	Remove contaminated clothing. Wash off with soap and water.		
		Eye contact:	Flush thoroughly with eye-wash solution or clean water for 15 minutes.		
		Advice to doctor:	Product contains <u>Bacillus thuringiensis</u> var <u>israeliensis</u> .		
5	Fire-fighting measures	Extinguishers:- Use water spray, dry powder, or foam fire extinguishers.  Advise water authority if fire fighting water has entered drains.			
6	Accidental release measures	Spillage (containment and disposal):- Wear appropriate PPE. Absorb in sand, earth or proprietary product shovel into marked container and contact a waste disposal firm or the supplier for disposal advice. Was area with water.			
7	Handling and storage		This product is subject to the Food and Environmental Protection Act 1985, ar Control of Pesticides Regulations 1986 made under it. The product must be		
		5 " '	and stored in accordance with the product label.		
		Precautions in use:	, , , ,		
			Wear suitable protective clothing (coveralls) and synthetic rubber/PVC gloves when using.		
			Avoid excessive contamination of coveralls and launder regularly.		
			Wash hands and exposed skin before meals and after use.		
			Wash splashes and exposed skin before meals and after use.		
			Wash splashes from skin or eyes immediately.		
		Q	This material and its container must be disposed of in a safe way.		
		Storage and transport			
		precautions:	Store in a cool dry place.  Protect the container from frost.		
			Protect from heat.		
			Activity may be impaired by prolonged storage above 32°C.		
			Keep in original container, tightly closed in a safe place.		
8	Exposure controls and personal	PPE Item	Keep in a safe place away from children. In Use Spillage		
0	protection		пт озе Зріпаде		
		Respirator			
		Gloves	If required, unlined synthetic rubber unlined synthetic rubber eg Nitrile		
		Overall	eg Nitrile Basic type to ISO 6530 eg EP Basic type to ISO 6530 eg EP		
		Overan	· · · · · · · · · · · · · · · · · · ·		
			Coverall Coverall		
		Goggles/ Face ship	Coverall Coverall eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC		
9	Physical and chemical properties	Goggles/ Face shid			
9	Physical and chemical properties	Appearance: pH:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5		
9	Physical and chemical properties	Appearance: pH: Flash point:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5 not flammable		
9	Physical and chemical properties	Appearance: pH: Flash point: Flammability:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable		
9	Physical and chemical properties	Appearance: pH: Flash point: Flammability: Bulk density:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90		
9	Physical and chemical properties	Appearance: pH: Flash point: Flammability: Bulk density: Solubility:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90 Dispersible in water		
9	Physical and chemical properties	Appearance: pH: Flash point: Flammability: Bulk density:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90		
9	Physical and chemical properties  Stability and reactivity	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.		
	, , , , , , , , , , , , , , , , , , ,	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.		
10	Stability and reactivity	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.		
10	Stability and reactivity	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension  4.5  not flammable  not flammable  0.90  Dispersible in water  Yeasty  Not a reactive substance.		
10	Stability and reactivity Toxicological information	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  mptoms of contact: Risk via this route is very low.		
10	Stability and reactivity	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation: Skin and eyes: Ingestion: Product is biodegra	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension  4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  paration.  Inproms of contact: Risk via this route is very low. May be irritating to skin and eyes. May be irritating to mouth and gastro intestinal tract.  Paration in the stinal tract.		
10 11	Stability and reactivity Toxicological information  Ecological information	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation: Skin and eyes: Ingestion: Product is biodegra The local office of	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension  4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  paration.  Inproms of contact: Risk via this route is very low.  May be irritating to skin and eyes. May be irritating to mouth and gastro intestinal tract.  adable and not a danger to water users. the National Rivers Authority (NRA) should be consulted before using this product.		
<u>10</u> 11	Stability and reactivity Toxicological information	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation: Skin and eyes: Ingestion: Product is biodegra The local office of Empty containers:	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension  4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  Paration.  Imptoms of contact: Risk via this route is very low.  May be irritating to skin and eyes. May be irritating to mouth and gastro intestinal tract.  Radable and not a danger to water users.  the National Rivers Authority (NRA) should be consulted before using this product.  Do not re-use - Empty completely and wash out. Dispose of as below.		
10 11	Stability and reactivity Toxicological information  Ecological information	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation: Skin and eyes: Ingestion: Product is biodegra The local office of	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension  4.5  not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  Paration.  Imptoms of contact: Risk via this route is very low.  May be irritating to skin and eyes. May be irritating to mouth and gastro intestinal tract.  Parational Rivers Authority (NRA) should be consulted before using this product.  Do not re-use - Empty completely and wash out. Dispose of as below.		
10 11	Stability and reactivity Toxicological information  Ecological information	Appearance: pH: Flash point: Flammability: Bulk density: Solubility: Odour: Incompatibility: Not a reactive prep Routes of entry/syn Inhalation: Skin and eyes: Ingestion: Product is biodegra The local office of Empty containers: Unused/recovered	eld Faceshield to BS 2092 IC if required Faceshield to BS 2092 IC  Medium brown coloured flowable suspension 4.5 not flammable not flammable 0.90 Dispersible in water Yeasty Not a reactive substance.  paration.  Inptoms of contact: Risk via this route is very low. May be irritating to skin and eyes. May be irritating to mouth and gastro intestinal tract.  adable and not a danger to water users. the National Rivers Authority (NRA) should be consulted before using this product. Do not re-use - Empty completely and wash out. Dispose of as below. materials: ) Do not dispose of in domestic refuse Treat as controlled waste. EWC code 15 01 02.		
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Page 1 of 2 SDS:- Teknar HP-D Revision no. 3 Issue date: FEB 2010

#### Other information Shelf-Life It is recommended that users treat the material as having a shelf-life of one year. Although shelf-life actually begins from the date of manufacture, there is a sufficient safety margin in the stability of the product to allow users to regard shelf-life as beginning when they receive the product. For instance, product purchased early in the season of one year may be used in the following year provided it is used early in the season. Use only in accordance with label instructions. Observe statutory conditions of use on the label. Use biocides safely. Always read the label and product safety information before use. (R) - Teknar is a Trade Mark of Valent Biosciences Corporation. The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.

Incorporates the REACH requirement changes to safety data sheets

Page 2 of 2 SDS:- Teknar HP-D Revision no. 3 Issue date: FEB 2010



# SAFETY DATA SHEET

1. Identification

Product identifier Thiosulfate N/10

Product code R-0697

**Recommended use**Use as directed by manufacturer for purposes directly related to water testing.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Taylor Technologies, Inc.

Address 31 Loveton Circle

Sparks, MD 21152

**United States** 

**Telephone** (410) 472-4340 Monday–Friday, 8:00 a.m.–4:30 p.m.

Website www.taylortechnologies.com

E-mail Not available
Emergency phone number (800) 837-8548

2. Hazard(s) identification

Physical hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Environmental hazards
Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Label elements None required
Signal word None required
Hazard statement None required

**Precautionary statement** 

Prevention None required
Response None required
Storage None required
Disposal None required

Hazard(s) not otherwise classified None
Supplemental information None

### 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	95–99
Sodium thiosulfate pentahydrate	Thiosulfuric acid, disodium salt, pentahydrate; Sodium thiosulfate	10102-17-7	0.1–5
Other components below reportable levels			0.01–0.1

### 4. First-aid measures

**Inhalation** Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention

immediately.

Material name: Thiosulfate N/10; R-0697

Skin contact Immedia

Immediately wash skin with soap and water. If symptoms persist or in all cases of concern, seek

medical advice.

Eye contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if

present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek

medical advice.

Ingestion

Treat symptomatically. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If symptoms persist

or in all cases of concern, seek medical advice.

Most important symptoms/effects, acute and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause

gastrointestinal irritation, nausea, vomiting, and diarrhea.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information Ensure medical personnel are aware of the material(s) involved and take precautions to protect

themselves.

5. Firefighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Firefighting equipment/instructions

Water fog. Foam. Dry chemical powder. Carbon dioxide.

During fire, gases hazardous to health may be formed.

Do not use water jet as an extinguisher, as this will spread the fire.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

Specific methods
General fire hazards

Hazardous combustion

products

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted

Carbon oxides. Hydrogen sulfide. Sulfur oxides. Other irritating fumes and smoke.

#### 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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental precautions** Avoid discharge into drains, watercourses, or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS). Protect against physical damage. Use care in handling/storage.

### 8. Exposure controls/personal protection

Occupational exposure limits No occupational exposure limits noted for the ingredient(s) **Biological limit values** No biological exposure limits noted for the ingredient(s)

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 Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency

eyewash fountain and quick-drench shower in the immediate work area.

Skin protection

Hand protection Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other Wear appropriate chemical-resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.

Advice should be sought from respiratory protection suppliers.

Thermal hazards When necessary, wear appropriate thermal protective clothing.

General hygiene Always observe good personal hygiene measures, such as washing after handling the material considerations and before eating, drinking and/or smoking. Routinely wash work clothing and protective

equipment to remove contamination. Avoid breathing mist or vapor.

### 9. Physical and chemical properties

**Appearance** 

Physical state Liquid **Form** Liquid

Color Clear colorless or nearly colorless

Odor Odorless **Odor threshold** Not available

9.6

Melting point/freezing point Not available Initial boiling point and boiling 212°F (110°C)

range

Flash point Not applicable (does not burn)

**Evaporation rate** Not available Flammability (solid, gas) Not applicable

Upper/lower flammability or

explosive limits

Flammability limit, Not applicable

lower (%)

Flammability limit, Not applicable

upper (%)

**Explosive limit,** Not applicable

lower (%)

**Explosive limit,** Not applicable

upper (%)

17 mm Hq

Vapor pressure Vapor density 0.6

1.00 g/cm<sup>3</sup> Relative density

Solubility(ies)

Solubility (water) Soluble in all proportions

Partition coefficient

(n-octanol/water)

Not available

**Auto-ignition temperature** Not applicable **Decomposition temperature** Not available Viscosity Not available

Other information

**Explosive properties** Not applicable Not applicable Oxidizing properties

Percent volatile 97% Specific gravity 1.00

# 10. Stability and reactivity

This product is stable and nonreactive under normal conditions of use, storage, and transport. Reactivity

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

Conditions to avoid Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Oxidizing agents. Strong acids.

Hazardous decomposition

products

None known. For hazardous combustion products, refer to section 5 of the SDS.

#### 11. Toxicological information

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system Skin contact May cause slight or mild transient irritation

Eye contact May cause temporary irritation

Ingestion May cause discomfort

Most important symptoms/effects, acute

and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause

**Test Results** 

gastrointestinal irritation, nausea, vomiting, and diarrhea.

This product is not classified as an acute toxicity hazard. See below for individual ingredient **Acute toxicity** 

acute toxicity data.

**Product Species** 

Sodium thiosulfate pentahydrate (CAS 10102-17-7)

Acute Dermal

LD<sub>50</sub>

Rabbit Not available

Inhalation

 $LC_{50}$ Rat Not available

Oral

Rat  $LD_{50}$ >5000 mg/kg

Deionized water (CAS 7732-18-5)

Acute

Dermal

Rabbit LD50 Not available

Inhalation

 $LC_{50}$ Rat Not available

Oral

 $LD_{50}$ Rat >89840 mg/kg

**Skin corrosion/irritation**May cause slight or mild transient irritation

Serious eye damage/eye

irritation

May cause temporary irritation

Respiratory sensitization Not expected to be a respiratory sensitizer

Skin sensitization Not expected to be a skin sensitizer

Germ cell mutagenicity Not expected to be mutagenic

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, or OSHA or U.S. ACGIH.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity,

single exposure

Not classified as a specific target organ toxicity – single exposure

Specific target organ toxicity,

repeated exposure

Not classified as a specific target organ toxicity – repeated exposure

Aspiration toxicity Not expected to be an aspiration hazard

**Chronic effects** Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

# 12. Ecological information

**Ecotoxicity**This 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.

Persistence and degradabilityNot availableBioaccumulative potentialNot availableMobility in soilNot 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 instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion with the user, the producer, and the waste

disposal company.

Waste from residues/unused

products

Empty containers or liners may retain some product residues. This material and its container

must be disposed of in a safe manner (refer to Disposal instructions).

**Contaminated packaging** 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. Transportation information

DOT

Not regulated as dangerous goods

IATA

Not regulated as dangerous goods

**IMDG** 

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and This mixture is not intended to be transported in bulk.

the IBC Code

# 15. Regulatory information

U.S. federal regulations This product is not known to be 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 (40 CFR 302.4)**

Not regulated

#### SARA 304 Emergency Release Notification

Not regulated

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate hazard – no

Delayed hazard – no Fire hazard – no Pressure hazard – no Reactivity hazard – no

# **SARA 302 Extremely Hazardous Substance**

Not regulated

#### SARA 311/312 Hazardous Chemical

Not regulated

#### SARA 313 (TRI reporting)

Not regulated

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP)

Not regulated

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Safe Drinking Water Act (SDWA)

Not regulated

#### U.S. state regulations

#### California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not regulated

# Massachusetts Right-to-Know Act

Not regulated

#### New Jersey Worker and Community Right-to-Know Act

Not regulated

# Pennsylvania Worker and Community Right-to-Know Act

Not regulated

# Rhode Island Right-to-Know Act

Not regulated

# **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International inventories

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

<sup>\*</sup>A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies).

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

List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAA: Clean Air Act

**CAS: Chemical Abstract Services** 

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations CSA: Canadian Standards Association DEA: Drug Enforcement Agency DOT: Department of Transportation DSL: Domestic Substances List EC: effective concentration ECL: Existing Chemicals List

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

ENCS: Existing and New Chemical Substances

EPA: Environmental Protection Agency

HAP: hazardous air pollutants

HMIS: Hazardous Materials Identification System

HNOC: hazards not otherwise classified

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organization

IECSC: Inventory of Existing Chemical Substances Produced or Imported in China

IMDG: International Maritime Dangerous Goods

IUCLID: International Uniform Chemical Information Database

LC: lethal concentration

LD: lethal dose

MARPOL: marine pollution

MSHA: Mine Safety and Health Administration NDSL: Non-Domestic Substances List NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NOEC: no observable effect concentration NTP: National Toxicology Program

NZIoC: New Zealand Inventory of Chemicals

OECD: Organisation for Economic Co-operation and Development

OEL: occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limits

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(ies).

PICCS: Philippine Inventory of Chemicals and Chemical Substances

PPE: personal protective equipment

RCRA: Resource Conservation and Recovery

Act RQ: reportable quantity

RTECS: Registry of Toxic Effects of Chemical Substances

RTK: right to know

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

SDWA: Safe Drinking Water Act STEL: short-term exposure limit TLV: threshold limit values

TSCA: Toxic Substances Control Act TWA: time-weighted average

VOC: volatile organic compounds WEL: workplace exposure limit

The information in the Safety Data Sheet is offered for your consideration and guidance for safe

handling, use, storage, transportation, disposal, and release of this product and is not

considered a warranty or quality specification. Taylor Technologies, Inc., disclaims all expressed or implied warranties and assumes no responsibility for the accuracy of completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in

any other process.

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the most current data available.

Issue dateMay 2015Last revisionMay 2015

Disclaimer



# SAFETY DATA SHEET

1. Identification

Product identifier Total Alkalinity Indicator

Product code R-0008

**Recommended use**Use as directed by manufacturer for purposes directly related to water testing.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Taylor Technologies, Inc.

Address 31 Loveton Circle

Sparks, MD 21152

**United States** 

**Telephone** (410) 472-4340 Monday–Friday, 8:00 a.m.–4:30 p.m.

Website www.taylortechnologies.com

E-mail Not available
Emergency phone number (800) 837-8548

2. Hazard(s) identification

Physical hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Health hazards
This mixture does not meet the classification criteria according to OSHA HazCom 2012.

Environmental hazards
Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

Label elements None required
Signal word None required
Hazard statement None required

Precautionary statement

PreventionNone requiredResponseNone requiredStorageNone requiredDisposalNone required

Hazard(s) not otherwise classified None
Supplemental information None

# 3. Composition/information on ingredients

# **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Deionized water	Dihydrogen oxide	7732-18-5	95–99
Other components below reportable levels			0.1–5

#### 4. First-aid measures

**Inhalation** Move to fresh air. Give oxygen or artificial respiration if needed. Get medical attention

immediately.

**Skin contact** Immediately wash skin with soap and water. If symptoms persist or in all cases of concern, seek

medical advice.

Material name: Total Alkalinity Indicator; R-0008

Eve contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek

medical advice.

Ingestion

Treat symptomatically. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If symptoms persist

or in all cases of concern, seek medical advice.

Most important symptoms/effects, acute and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

General information Ensur

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

# 5. Firefighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Foam. Dry chemical powder. Carbon dioxide.

Specific hazards arising from the chemical

Special protective

equipment and precautions for firefighters

Firefighting equipment/instructions

During fire, gases hazardous to health may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

Firefighters should wear full protective gear. Evacuate the area promptly. Fight fire from upwind to avoid exposure to combustion products. Cool containers/tanks with water spray. Do not get water inside container. Move containers from fire area if it can be done without risk. Prevent fire-extinguishing water from contaminating surface water or the ground water system.

Specific methods
General fire hazards
Hazardous combustion
products

No unusual fire or explosion hazards noted Carbon oxides. Other irritating fumes and smoke.

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 cleanup. 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 protective equipment, refer to section 8 of the SDS.

Methods and materials for containment and cleaning up

Large Spills: Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewer, basements, or confined areas. Following product recovery, flush area with water.

Small Spills: Absorb spillage with noncombustible, absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for reuse. For waste disposal, refer to section 13 of the SDS. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

**Environmental precautions** 

Avoid discharge into drains, watercourses, or onto the ground.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (refer to section 10 of the SDS). Protect against physical damage. Use care in handling/storage.

# 8. Exposure controls/personal protection

Occupational exposure limits

No occupational exposure limits noted for the ingredient(s)

Biological limit values

No biological exposure limits noted for the ingredient(s)

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** Wear safety glasses with side shields (or goggles) and a face shield. Provide an emergency

eyewash fountain and quick-drench shower in the immediate work area.

Skin protection

**Hand protection** Wear appropriate chemical-resistant gloves. Advice should be sought from glove suppliers.

Other Wear appropriate chemical-resistant clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.

Advice should be sought from respiratory protection suppliers.

**Thermal hazards** When necessary, wear appropriate thermal protective clothing.

**General hygiene**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 contamination. Avoid breathing mist or vapor.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid
Form Liquid
Color Dark green
Odor Odorless
Odor threshold Not available

**pH** 8.5

Melting point/freezing point Not available
Initial boiling point and boiling 212°F (110°C)

range

Flash point Not applicable (does not burn)

Evaporation rate Not available Flammability (solid, gas) Not applicable

Upper/lower flammability or

explosive limits

Flammability limit, Not applicable

lower (%)

Flammability limit, Not applicable

upper (%)

Explosive limit, Not applicable

lower (%)

Explosive limit, Not applicable

upper (%)

Vapor pressure 17 mm Hg Vapor density 0.6

Relative density 1.00 g/cm<sup>3</sup>

Solubility(ies)

Solubility (water) Soluble in all proportions

Partition coefficient

(n-octanol/water)

Not available

Auto-ignition temperature

Decomposition temperature

Viscosity

Not available

Not available

Other information

Explosive properties Not applicable

Oxidizing properties Not applicable

Percent volatile 99% Specific gravity 1.00

# 10. Stability and reactivity

**Reactivity**This product is stable and nonreactive 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 Contact with incompatible materials. Do not use in areas without adequate ventilation.

Incompatible materials Oxidizing agents

Hazardous decomposition

products

None known. For hazardous combustion products, refer to section 5 of the SDS.

#### 11. Toxicological information

Information on likely routes of exposure

InhalationMay cause irritation to the respiratory systemSkin contactMay cause slight or mild transient irritation

Eye contact May cause temporary irritation

**Ingestion** May cause discomfort

Most important

symptoms/effects, acute

and delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness, edema, drying, and cracking of the skin. Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging and tearing. Inhalation of mists can cause respiratory

irritation. Symptoms may include coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient

acute toxicity data.

Components Species Test Results

Deionized water (CAS 7732-18-5)

Acute Dermal

LD<sub>50</sub> Rabbit

Not available

Inhalation

LC<sub>50</sub> Rat Not available

Oral

 $LD_{50}$  Rat >89840 mg/kg

Skin corrosion/irritation May cause slight or mild transient irritation

Serious eye damage/eye

irritation

May cause temporary irritation

Respiratory sensitization 
Not expected to be a respiratory sensitizer

Skin sensitization Not expected to be a skin sensitizer

Germ cell mutagenicity Not expected to be mutagenic

Carcinogenicity This product is not considered to be a carcinogen by IARC, NTP, OSHA, or U.S. ACGIH.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

**Reproductive toxicity**This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity,

single exposure

Not classified as a specific target organ toxicity - single exposure

Specific target organ toxicity,

repeated exposure

Not classified as a specific target organ toxicity – repeated exposure

Aspiration toxicity Not expected to be an aspiration hazard

**Chronic effects** Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

12. Ecological information

**Ecotoxicity** This 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.

Persistence and degradability Not available Bioaccumulative potential Not available

Mobility in soil High water solubility indicates a high mobility in soil.

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 instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations**Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion with the user, the producer, and the waste

disposal company.

Waste from residues/unused

products

Empty containers or liners may retain some product residues. This material and its container

must be disposed of in a safe manner (refer to Disposal instructions).

**Contaminated packaging** 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. Transportation information

DOT

Not regulated as dangerous goods

IATA

Not regulated as dangerous goods

**IMDG** 

Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and

the IBC Code

This mixture is not intended to be transported in bulk.

#### 15. Regulatory information

U.S. federal regulations This product is not known to be 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 (40 CFR 302.4)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

Material name: Total Alkalinity Indicator; R-0008

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories** Immediate hazard – no

Delayed hazard – no Fire hazard – no Pressure hazard – no Reactivity hazard – no

#### SARA 302 Extremely Hazardous Substance

Not regulated

#### SARA 311/312 Hazardous Chemical

Not regulated

# SARA 313 (TRI reporting)

Not regulated

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP)

Not regulated

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated

#### Safe Drinking Water Act (SDWA)

Not regulated

#### U.S. state regulations

# California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not regulated

#### Massachusetts Right-to-Know Act

Not regulated

# New Jersey Worker and Community Right-to-Know Act

Not regulated

# Pennsylvania Worker and Community Right-to-Know Act

Not regulated

#### Rhode Island Right-to-Know Act

Not regulated

#### **California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International inventories

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

<sup>\*</sup>A "yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies).

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(ies).

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

#### List of abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CAA: Clean Air Act

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

CFR: Code of Federal Regulations CSA: Canadian Standards Association DEA: Drug Enforcement Agency DOT: Department of Transportation DSL: Domestic Substances List EC: effective concentration ECL: Existing Chemicals List

EINECS: European Inventory of Existing Commercial Chemical Substances

**ELINCS: European List of Notified Chemical Substances** 

ENCS: Existing and New Chemical Substances

EPA: Environmental Protection Agency

HAP: hazardous air pollutants

HMIS: Hazardous Materials Identification System

HNOC: hazards not otherwise classified

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk

ICAO: International Civil Aviation Organization

IECSC: Inventory of Existing Chemical Substances Produced or Imported in China

IMDG: International Maritime Dangerous Goods

IUCLID: International Uniform Chemical Information Database

LC: lethal concentration

LD: lethal dose

MARPOL: marine pollution

MSHA: Mine Safety and Health Administration NDSL: Non-Domestic Substances List

NFPA: National Fire Protection Association NIOSH: National Institute of Occupational Safety and Health

NOEC: no observable effect concentration

NTP: National Toxicology Program

NZIoC: New Zealand Inventory of Chemicals

OECD: Organisation for Economic Co-operation and Development

OEL: occupational exposure limits

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limits

PICCS: Philippine Inventory of Chemicals and Chemical Substances

PPE: personal protective equipment

RCRA: Resource Conservation and Recovery

Act RQ: reportable quantity

RTECS: Registry of Toxic Effects of Chemical Substances

RTK: right to know

SARA: Superfund Amendments and Reauthorization Act

SDS: Safety Data Sheet

SDWA: Safe Drinking Water Act STEL: short-term exposure limit TLV: threshold limit values

WEL: workplace exposure limit

TSCA: Toxic Substances Control Act TWA: time-weighted average VOC: volatile organic compounds

Disclaimer

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Issue date April 2015
Last revision April 2015

Material name: Total Alkalinity Indicator; R-0008

#### **MATERIAL SAFETY DATA SHEET**

Ultra Duster Revised: 1/11/2016

#### **SECTION I - CHEMICAL INFORMATION**

Trade Name: HFC-152a

Chemical Name: Difluoroethane, R152a Product Supplied By: AW Distributing, Inc.

Address & Phone #: 2024 Middlefield Rd., Redwood City, CA 94063

Emergency Phone #: Chemtrec 1-800-424-9300

Mfg. Model No.: AE420BWON

#### **SECTION II - HAZARDOUS INGREDIENTS**

Ingredients CAS # % TLV PEL UNITS

1,1-Difluoroethane 75-37-6 100

#### **SECTION III - PHYSICAL DATA**

Boiling Point (°F) -25 C (-13F) Specific Gravity (H2O=1)

Vapor Pressure (MM Hg) 87 psia at 25 deg C (77

deg F)

Percent Volatile by Vol. 100 WT %

Vapor Density (Air=1) 2.4 at 25 deg C (77 deg F) Density 0.90 g/cc at 25 deg C (77

deg F) - Liquid

Solubility in Water 0.28 WT% at 25 deg C (77

deg F)

Evap Rate (Ether = 1)

Appearance and Odor Slight ethereal, Clear,

colorless

Form Gas

#### **SECTION IV - HAZARDOUS REACTIVITY**

Instability - Stable, however, avoid open flames and high temperatures.

Incompatibility - Incompatible with alkaline or alkaline earth metals.

**Decomposition -** Decomposition products are hazardous. This material can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrofluoric acid and possible carbonyl fluoride.

Polymerization - Polymerization will not occur.

#### **SECTION V - FIRE AND EXPLOSION HAZARD DATA**

Flash Point -<-50 C (<-58 F) Flammable Limits LEL - 3.9 Auto Ig. 454C UEL - 16.9

**Fire and Explosion Hazards -** Flammable. Cylinders are equipped with temperature and pressure relief devices but still may rupture under fire conditions. Use water spray to cool cylinders and tanks.

Extinguishing Media - Water spray, Water fog, Dry chemical.

**Special Fire Fighting Procedures -** Keep container cool with water spray. If gas exiting container ignites, stop flow of gas. Do not put out the fire unless leak can be stopped immediately. Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire conditions.

National Fire Protection Association (NFPA 30B) - Level 1 Aerosols (lowest flammability rating)

Consumer Products Safety Commission (CPSC 1500.3 (c)(6).16CFR - Not flammable

#### **SECTION VI - HEALTH HAZARD INFORMATION**

#### **Potential Health Effects:**

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air. Liquid contact can cause frostbite.

#### **Human Health Effects:**

Contact with the liquid may cause frostbite. Overexposure by inhalation may include nonspecific discomfort, such as nausea, headache, or weakness; or temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination and loss of consciousness. Higher exposures (>20%) may cause temporary lung irritation effects with cough, discomfort, difficulty breathing, or shortness of breath; or temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, abnormal kidney function as detected by laboratory tests. Gross overexposure may be fatal.

Individual with preexisting diseases of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures.

#### First Aid

**Eyes:** Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open. Get prompt medical attention.

**Skin:** Immediately remove contaminated clothing; wash skin with large amounts of water for at least 15 minutes. Treat for frostbite with gentle warming affected area if necessary. Get prompt medical attention.

**Inhalation:** Move victim to fresh air and restore breathing if necessary. Stay with victim until arrival of emergency medical personnel.

Ingestion: Contact local Poison Control Center or physician immediately!

#### **SECTION VII - TOXICOLOGICAL INFORMATION**

The compound is untested for skin or eye irritation, and for animal sensitization. Effects in animals from single, high exposure by inhalation include labored breathing, lung irritation, lethargy, incoordination, and loss of consciousness. Cardiac sensitization occurred in dogs exposed to a concentration of 150,000 ppm in air and given an intravenous epinephrine challenge. Effects of repeated exposure include increased urinary fluorides, reduced kidney weight, and reversible kidney changes. The effects of a single, high oral dose include weight loss and lethargy.

Tests in animals demonstrate no carcinogenic activity or developmental effects. Tests in animals for reproductive effects have not been performed. This compound does not produce genetic damage in bacterial cell cultures but has not been tested in animals.

#### **SECTION VIII - TRANSPORTATION INFORMATION**

**Shipping Information** 

**DOT - Domestic Ground Transportation** 

Proper Shipping Name DIFLUOROETHANE, R152a

Hazard Class 2.1

I.D. No. (UN/NA) UN 1950

Shipping Paper Information: None required

Mark Packages with: DIFLUOROETHANE, R152a, UN 1950, ORM-D

Placarding: None required

#### **SECTION IX - SPECIAL PROTECTION INFORMATION**

**Waste Disposal Method -** Reclaim by distillation, incinerate, or remove to a permitted waste facility. Comply with Federal, State and Local regulations.

This material may be a RCRA Hazardous waste upon disposal due to the ignitability characteristic.

PPE-PERSONAL PROTECTIVE EQUIPMENT REQUIRED: NONE

VectoBac® G

MSDS# BIO-0057 Rev. 6 ISSUED 10/09/14

\_\_\_\_\_\_

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

\_\_\_\_\_

MATERIAL NAME: VectoBac® G

EPA Registration No. 73049-10

MANUFACTURER: Valent BioSciences Corporation

870 Technology Way

Libertyville, Illinois 60048

EMERGENCY TELEPHONE NUMBERS

Emergency Health or Spill:

Outside the United States: 651-632-6184 Within the United States: 877-315-9819

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

-----

INGREDIENT NAME: Bacillus thuringiensis, subsp. israelensis,

strain AM65-52

CONCENTRATION: 2.80 %

CAS/RTECS NUMBERS: 68038-71-1 / N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A

LIMITS STEL: N/A

CEILING: N/A

INGREDIENT NAME: Inert Ingredients - identity withheld as a Trade

Secret

CONCENTRATION: 97.20 % CAS/RTECS NUMBERS: N/A / N/A

OSHA-PEL 8HR TWA: N/L

STEL: N/L

CEILING: N/L

ACGIH-TLV 8HR TWA: N/L

STEL: N/L

CEILING: N/L

OTHER 8HR TWA: N/A

LIMITS STEL: N/A

CEILING: N/A

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\_\_\_\_\_\_

# 2. COMPOSITION/INFORMATION ON INGREDIENTS, continued

\_\_\_\_\_

EEC (European Community): N/A
Symbol Designation: N/A
Risk Phrases: N/A
Safety Phrases: N/A

# 3. HAZARDS INFORMATION

\_\_\_\_\_\_

EMERGENCY OVERVIEW: Product is non-toxic by ingestion, skin contact, or inhalation. Direct contact with eyes or skin may cause mild irritation.

ROUTE(S) OF ENTRY: Skin: No

Inhalation: No Ingestion: No

SKIN CONTACT: Non-irritant

SKIN SENSITIZATION: N/D

EYE CONTACT: Non-irritant

TARGET ORGANS: N/D

CARCINOGENICITY RATING: NTP: N/L IARC: N/L OSHA: N/L ACGIH: N/L

None

SIGNS AND SYMPTOMS: Direct contact with eyes or skin may cause mild

irritation.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N/D.

ISSUED 10/09/14

# 4. FIRST AID MEASURES

\_\_\_\_\_\_

EYES: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

\_\_\_\_\_\_

- SKIN: Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
- INGESTION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
- INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

#### 5. FIRE FIGHTING PROCEDURES

\_\_\_\_\_

FLASH POINT: N/A
FLASH POINT METHOD: N/D
LOWER EXPLOSIVE LIMIT(%): N/D
UPPER EXPLOSIVE LIMIT(%): N/D
AUTOIGNITION TEMPERATURE: N/D

FIRE & EXPLOSION HAZARDS: Non-flammable and no explosive properties.

EXTINGUISHING MEDIA: Use appropriate medium for underlying cause of fire.

FIRE FIGHTING INSTRUCTIONS: Wear protective clothing and self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

-----

SPILL OR RELEASE PROCEDURES: Recover product. Place into appropriate container for disposal. Avoid dust. Ventilate and wash spill area.

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\_\_\_\_\_\_

# 7. HANDLING AND STORAGE

\_\_\_\_\_

HANDLING: N/D.

STORAGE: Store in a cool, dry place.

SPECIAL PRECAUTIONS: N/A

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

-----

ENGINEERING CONTROLS: Use local exhaust.

RESPIRATORY PROTECTION: Not usually required. However, mixers/loaders and applicators not in enclosed cabs or aircraft must wear a dust/mist respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

SKIN PROTECTION: Impervious gloves, clothing to minimize skin contact.

EYE PROTECTION: Not usually required. If necessary, use safety glasses or goggles.

OTHER PROTECTION: Wash thoroughly with soap and water after handling.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

-----

APPEARANCE/PHYSICAL STATE: Granular solid.

ODOR: Mild

BOILING POINT: N/A

MELTING/FREEZING POINT: N/A

VAPOR PRESSURE (mm Hg): N/A

VAPOR DENSITY (Air=1): N/A

EVAPORATION RATE: N/D

BULK DENSITY:  $27 \pm 4 \text{ lb/cu.ft.}$ 

SPECIFIC GRAVITY: N/D

SOLUBILITY: N/A

pH: 5.4 ± 1.0 (10% slurry)

VISCOSITY: N/A

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\_\_\_\_\_\_

# 10. STABILITY AND REACTIVITY

-----

CHEMICAL STABILITY: Stable

INCOMPATIBILITIES: Alkalinity inactivates product.

HAZARDOUS DECOMPOSITION PRODUCTS: N/D.

HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL INFORMATION

\_\_\_\_\_

Acute Toxicity

ORAL LD50: LD50 (rat) > 5,000 mg/kg

DERMAL LD50: LD50 (rabbit) > 5,000 mg/kg

INHALATION LC50: N/D. No lethality was observed in rats after a 4 hour exposure at the highest obtainable inhalation exposure chamber concentration (2.84 mg/l) to VectoBac® Technical Powder.

CORROSIVENESS: N/D. Not expected to have any corrosive properties.

DERMAL IRRITATION: N/D. Transient, slight or mild irritation noted in a dermal toxicity study with VectoBac® Technical Powder.

OCULAR IRRITATION: N/D. VectoBac® Technical Powder was mildly irritating in an eye irritation test in rabbits.

DERMAL SENSITIZATION: N/D

SPECIAL TARGET ORGAN EFFECTS: N/D

CARCINOGENICITY INFORMATION: N/D. None of the components are classified as carcinogens.

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# 12. ECOLOGICAL INFORMATION

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ECOLOGICAL INFORMATION: N/D

# 13. DISPOSAL CONSIDERATIONS

\_\_\_\_\_\_

Do not contaminate potable water, food or feed by storage or disposal. Dispose of product in accordance with federal, state, and local regulations.

# WASTE DISPOSAL METHODS:

**Pesticide Disposal:** Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### 14. TRANSPORTATION INFORMATION

\_\_\_\_\_

DOT STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

IATA/ICAO STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

IMO STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

HAZARD CLASS: N/A

UN NUMBER: N/A

PACKING GROUP: N/A

REPORTABLE QUANTITY: N/A

FLASH POINT: N/A

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15. REGULATORY INFORMATION

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TSCA STATUS: Exempt

CERCLA STATUS: N/D

SARA STATUS: N/D

RCRA STATUS: N/D

PROP 65 (CA): N/D

16. OTHER INFORMATION

\_\_\_\_\_

REASON FOR ISSUE: Strain number added.

APPROVAL DATE: 10/09/14 SUPERSEDES DATE: 01/08/12

LEGEND: N/A = Not Applicable

N/D = Not Determined

N/L = Not Listed

L = Listed

C = Ceiling

S = Short-term

(R) = Registered Trademark of Valent BioSciences

(TM) = Registered Trademark of Valent BioSciences

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870 Technology Way Libertyville, IL 60048 - 800-323-9597

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WAXIE ENTERPRISES

MATERIAL SAFETY DATA SHEET \*\*\*\* P.O. BOX 23506

Phone#: (858) 292-8111

SAN DIEGO, CA 92193

Latest Revision Date...01/01/11 Print Date......03/10/11

/01/11 WAXIE CLEANSER

EMERGENCY PHONE NUMBER: 1-800-424-9300

SECTION 1 PRODUCT IDENTIFICATION

PRODUCT NAME OR NUMBER...... WAXIE CLEANSER

TRADE NAME OR CHEMICAL NAME.... WAXIE CLEANSER

SYNONYMS..... N/A

FORMULA..... PROPRIETARY

CHEMICAL FAMILY..... CLEANSER

MOLECULAR WEIGHT..... N/A

NFPA..... SEE SECTION 8
HMIS RATING.... SEE SECTION 8

SECTION 2 <u>HAZARDOUS INGREDIENTS / HAZARD DATA</u>

CHEMICAL NAME(S)
CAS NUMBER & NT TLV-ACGIH
PBL-OSHA
SDC.313 NTP IARC PROP.65
SODIUM DICHLORO-S-TRIAZINETRIO 002893-78-9 <1.0 NONE NO NO NO NO

SECTION 3 REGULATORY DATA

NTP..... NATIONAL TOXICOLOGY PROGRAM

TARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

PROPOSITION 65...... THIS PRODUCT CONTAINS INGREDIENTS ON

THE LIST OF PROPOSITION 65.

STATE OF CALIFORNIA SAFE DRINKING WATER AND

TOXIC ENFORCEMENT ACT OF 1986.

SECTION 313 SARA TITLE III... THE CHEMICAL(S) MARKED WITH A "YES" ON

SECTION 313 ARE SUBJECT TO THE REPORTING

REQUIREMENTS OF THIS SECTION.

SECTION 4 PHYSICAL DATA

BOILING/MELTING POINT @760 mm Hg N/A
pH......11.0 OF A 10% SOLUTION

SPECIFIC GRAVITY OR BULK DENSITY 2.65 SOLUBILITY IN WATER...... N/A

APPEARANCE..... WHITE CRYSTALLINE POWDER

ODOR......NONE

SECTION 5 FIRE AND EXPLOSION HAZARD DATA

FLASH POINT °F (Test Method)... NON-FLAMMABLE

AUTOIGNITION TEMPERATURE..... N/A

FLAMMABILITY LIMITS IN AIR (% V) NOT DETERMINED

EXTINGUISHING MEDIA..... WATER, CARBON DIOXIDE, FOAM, DRY CHEMICAL.

SPECIAL FIRE FIGHTING PROCEDURES WEAR SELF CONTAINED BREATHING APPARATUS

AND FULL PROTECTIVE EQUIPMENT.

UNUSUAL FIRE & EXPLOSION HAZARDS EXTINGUISH ALL NEARBY SOURCES OF IGNITION.

# WAXIE CLEANSER

SECTION 6 HEALTH HAZARD DATA * EFFECTS OF OVEREXPOSURE						
THRESHOLD LIMIT VALUE						
SECTION 7 EMERGENCY AND FIRST AID PROCEDURES						
INHALATIONMOVE SUBJECT TO FRESH AIR. IF BREATHING IS DIFFICULT, OBTAIN MEDICAL HELP.  BYESFLUSH EYES WITH A LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF  IRRITATION PERSISTS.  SKINWASH AFFECTED SKIN AREAS WITH WATER. CONSULT PHYSICIAN IF IRRITATION PERSISTS.  INGESTIONNEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. GIVE LARGE  QUANTITIES OF WATER. GET MEDICAL ATTENTION IMMEDIATELY.						
SECTION 8 HMIS RATING SYSTEM						
NFPA  HEALTH O  HAZARD  REACTIVITY  SPECIFIC  HAZARD  SPECIFIC  HAZARD  SPECIFIC  HAZARD  HMIS RATING  ===================================						
SECTION 9 REACTIVITY DATA						
PRODUCT STABILITY STABLE  Conditions to Avoid  CHEMICAL INCOMPATIBILITY DO NOT MIX WITH OTHER PRODUCTS, ESPECIALLY  TOILET BOWL CLEANERS OR PRODUCTS THAT  CONTAIN AMMONIA.						
HAZARDOUS DECOMPOSITION PRODUCTS PHOSPHOROUS OXIDES FROM TEMPERATURES ABOVE 400°F. HAZARDOUS POLYMERIZATION						
SECTION 10 SPECIAL PROTECTION INFORMATION						
RESPITORY PROTECTIONNOT NEEDED						
VENTILATION:						

# WAXIE CLEANSER

	<del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>	
SECTION 10	SPECIAL PROTECTION INFORMATION	
LOCAL EXHAUST		
PROTECTIVE CLOTHING.		OR RUBBER GLOVES.
SECTION 11	ENVIRONMENTAL DATA	
ENVIRONMENTAL TOXICI	TY DATA NONE KNOWN OURES CONTAIN, COLLECT AND DIS	POSE PER LOCAL,
WASTE DISPOSAL METHO CONTAINER DISPOSAL	STATE AND FEDERAL REGULADO PER LOCAL, STATE AND FEDERAL STATE STATE AND FEDERAL STATE STATE AND FEDERAL STATE	ERAL REGULATIONS.
SECTION 12	SHIPPING DATA	
HAZARDOUS SUBSTANCE. D.O.T. HAZARD CLASS. D.O.T. LABELS REQUIR D.O.T. PLACARDS REQU POISON CONSTITUENT BILL OF LADING DESCR PACKING GROUP UN/NA CODE	NOT REGULATED  NONE  NONE  NO  PIPTION WAXIE CLEANSER  NONE  NON-HAZARDOUS POWDER	
HAZARDOUS SUBSTANCE. D.O.T. HAZARD CLASS. D.O.T. LABELS REQUIRED.O.T. PLACARDS REQUIRED.O.T. PLACARDS REQUIRED.O.T. PLACARDS REQUIRED.O.T. PLACARDS REQUIRED.O.T. BILL OF LADING DESCR PACKING GROUP UN/NA CODE SECTION 13	NONE NOT REGULATED NONE NONE NONE NO PIRED	=======================================

While Waxie Sanitary Supply believes the statements set forth herein are accurate as of the date hereof, Waxie Sanitary Supply makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

# **MATERIAL SAFETY DATA SHEET**

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

	This MSDS complies with OSHA'S Hazard	d Communicati	on Standard 29 CFR 1	910.1200 a	nd OSHA For	n 174	
	IDENTITY AND		OR'S INFORMATION				
	NFPA Rating: Health-2; Flammability-3; Reactivity-0; Special						
Manufactured For:		DO	DOT Hazard Classification: ORM-D				
Address:	P.O. Box 23506	Ide	Identity (trade name as used on label):				
Address:	San Diego, CA 92193-3506	1	Waxie Hospital Spray Surface Disinfectant				
Phone: 1-800-995-44	166	MS	DS Number: 223		Revision		
Emergency Response	e Number: 1-800-255-3924	Dat	e Prepared: 10/05/	00		ared By: D	I /IR
	F BASED ON INDIRECT TEST DATA	Infor	mation Calls: 858-292	-8111		u.ou 2,. 2	
	SECTION 1 - MATERIA				V .		
COMPONENTS-CHEMIC	CAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen
(Hazardous Components	1% or greater; Carcinogens 0.1% or greater)		0, 10 110111501	III LIST	(ppm)	TLV (ppm)	Ref. Source **
ETHANOL			64-17-5	No	1000	1000	d
SODIUM NITRITE		***************************************	7632-00-0	No	N/E	N/E	d
AMMONIUM HYDROXI	DE		1336-21-6	No	35	25	d
ISOBUTANE / PROPAN	NE BLEND		75-28-5	No	800	800	d
			74-98-6				
METHANOL				No	1000	1000	d
O-PHENYLPHENOL			67-56-1	Yes	200	200	d
O-FRENTLEHENOL			90-43-7	Yes	NE	NE	е
WARNING: This pro	duct contains a chemical or chemicals	s known to					
the State of Californ							
	SECTION 2 - PHYS						
Boiling Point: N/A		Spec	ific Gravity (H2O=1):	Concentr	ate Only = 0.88	30	
Vapor Pressure: PSIG (		Vapo	or Pressure (Non-Aero	sols)(mm l	Hg and Tempe	erature): N/A	
Vapor Density (Air = 1):			oration Rate (	= 1): N			
Solubility in Water: Solu		Wate	er Reactive: No				
Appearance and Odor:	Clear, colorless spray, light airy fragrance.						
	SECTION 3 - FIRE	E AND EXPL	OSION HAZARD D	ATA			
FLAMMABILITY as pe	er USA FLAME PROJECTION TEST	Auto Ign	ition Temperature	Flamm	ability Limits	in Air by %	in Volume:
(aerosols) NON-F	LAMMABLE		N/E	% LEL	: N/É		.: N/E
FLASH POINT AND MET	THOD USED (non-aerosols): N/A	EXT	NGUISHER MEDIA:	oam, dry o	chemical, carbo		
SPECIAL FIRE FIGHTIN	G PROCEDURES: Self-contained breathing ap	oparatus.				,	
Unusual Fire & Explosic	on Hazards: Do not expose aerosols to tempe	eratures above	130°F or the container	may ruptur	e.	***************************************	
	SECTION 4	- REACTIVIT	Y HAZARD DATA				
STABILITY [X] STA		HAZ	ARDOUS POLYMERIZ	ATION [	] WILL [ >	() WILL NOT	OCCUR
Incompatibility (Mat. to a	void): Oxidants, reducing agents, ammonium s	alts. Cond	litions to Avoid: Ope	n flame, we			
Hazardous Decompositi	on Products: CO, CO2.						
	SECTION	5 - HEALTH	HAZARD DATA				
	ROUTES OF ENTRY: [X]INHALATION [	] INGESTION		[ ] NOIT	EYE [ ]NO	T HAZARDOI	JS
ACUTE EFFECTS							
Inhalation: Excessive inh	alation of vapors can be harmful and may caus	se headache, di	zziness, asphyxia, ane	sthetic effe	cts and possib	le unconsciou	sness.
Eye Contact: Mild irritation	on.	Skin	Contact: Possible mil	d irritation.			
Ingestion: Possible chen	nical pneumonitis if aspirated into lungs. Nause	ea.					
CHRONIC EFFECTS: (Ef	fects due to excessive exposure to the raw mat	terials of this m	ixture) Overexposure r	nay cause	kidney damag	e, liver abnorn	nalities, brain
damage.							
wedical Conditions Gen	erally Aggravated by Exposure: May aggrava	ate existing eye	, skin, or upper respira	tory conditi	ons.		
	EMERGENC	CY FIRST AID	PROCEDURES				
Eye Contact: Flush with v	vater for 15 minutes. If irritated, seek medical a	attention.					
Skin Contact: Wash with	soap and water. If irritated, seek medical atten	ntion.					
Innalation: Remove to fre	sh air. Resuscitate if necessary. Get medical	attention.					
Ingestion: DO NOT INDUCE VOMITING. Drink two large glasses of water. Get immediate medical attention.							
	SECTION 6 - CONT	ROL AND PR	OTECTIVE MEASI	JRES			
Respiratory Protection (specify type): If vapor concentration exceeds TLV, use respirator approved by NIOSH in positive pressure mode.							
Protective Gloves: Latex, if skin easily irritated. Eye Protection: Safety glasses recommended.							
Ventilation Requirements: Adequate ventilation to keep vapor concentration below TLV.							
Other Protective Clothing & Equipment: None							
Hygienic Work Practices: Wash with soap and water before handling food. Remove contaminated clothing.							
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE							
Steps To Be Taken If Material Is Spilled Or Released: Absorb with suitable medium. Incinerate or landfill according to local, state or federal regulations							
Waste Disposal Methods	<ul> <li>Aerosol cans when vented to atmospheric pre</li> </ul>	essure through	normal use, pose no di	sposal haz	ard.		
Precautions To Be Taken	In Handling & Storage: Do not puncture or in	cinerate contai	ners. Do not store at te	emperature	s above 130°F	:	
Other Precautions &/or S	pecial Hazards: KEEP OUT OF REACH OF	CHILDREN. AV	oid food contamination	. Avoid bre	eathing vapors	. Remove igni	tion sources
Jo not use on polished wo	od turniture or rayon fabrics.						1
We believe the stateme	ents, technical information and recommendation	ns contained he	rein are reliable, but the	ev are give	n without warr	anty or quarar	too of any kind

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only







# **Safety Data Sheet**

1 - Chemical Product and Company Identification

Manufacturer: WD-40 Company Chemical Name

Address: 9715 Business Park Ave

San Diego, CA, USA

Post code: 92131

Telephone: +1-800-448-9340

+1-858-251-5600

24 Hour Emergency Phone Number:

1-888-324-7596 (PROSAR)

**Chemical Spills:** 

1-800-424-9300 (Chemtrec)

1-703-527-3887 (International Calls)

**Chemical Name: Organic Mixture** 

**Trade Name: WD-40 Aerosol** 

Product Use: Lubricant, Penetrant, Drives Out

Moisture, Removes and Protects Surfaces

**From Corrosion** 

SDS Date Of Preparation: 12/28/17

#### 2 - Hazards Identification

#### **GHS Classification:**

Flammable Aerosol Category 1
Aspiration Toxicity Category 1

Skin Irritation Category 3

Specific Target Organ Toxicity Single Exposure Category 3 (nervous system effects)



#### DANGER!

H222 Extremely flammable aerosol.

H229 Pressurized container: may burst if heated.

H304 May be fatal if swallowed and enters airways.

H316 Causes mild skin irritation.

H336 May cause drowsiness or dizziness.

#### **Prevention**

P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist or vapors.

P271 Use only outdoors or in a well-ventilated area.

# Response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER or doctor if you feel unwell.

P332+P313 If skin irritation occurs: Get medical attention.

# Storage

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

# **Disposal**

P501 Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

Ingredient	CAS#	Weight Percent	GHS Classification
Aliphatic Hydrocarbon	64742-47-8	50-70%	Flammable Liquid Category 3
			Aspiration Toxicity Category 1
			Skin Irritation Category 3
			Specific Target Organ Toxicity Single
			Exposure Category 3
			(nervous system effects)
Petroleum Base Oil	64742-56-9	<25%	Not Hazardous
	64742-65-0		
	64742-53-6		
	64742-54-7		
	64742-71-8		
Non-Hazardous Ingredients	Mixture	<10%	Not Hazardous
Carbon Dioxide	124-38-9	2-3%	Gas Under Pressure: Compressed
			Gas

#### 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.

**Most Important Symptoms (acute and delayed):** Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. Prolonged skin contact may cause drying of the skin. Inhalation of mists or vapors may cause nasal and respiratory tract irritation and central nervous system effects such as headache, dizziness and nausea.

**Indication of Immediate Medical Attention or Special Treatment:** Immediate medical attention is required for ingestion.

#### 5 - Fire Fighting Measures

**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.

**Special Fire Fighting Procedures:** 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.

**Unusual Fire and Explosion Hazards:** Contents under pressure. Extremely flammable aerosol. 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 can cause a flash fire. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces.

# 6 - Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Eliminate all sources of ignition and ventilate area. Wear appropriate protective clothing (see Section 8).

**Environmental Precautions:** Report spills to authorities as required.

**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, including any incompatibilities:** Store in a cool, well-ventilated area, away from incompatible materials. Do not store in direct sunlight or above 120°F. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

8 - Exposure Controls/Personal Protection

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 OSHA PEL (as oil mist, mineral)
Non-Hazardous Ingredients	None Established
Carbon Dioxide	5000 ppm TWA, 30,000 ppm STEL ACGIH TLV
	5000 ppm TWA OSHA PEL

The Following Controls are Recommended for Normal Consumer Use of this Product

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

**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 OSHA 1910.134, ANSI Z88.2 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:	LEL: 0.7% UEL: 5.6%
			(Aliphatic Hydrocarbon)
Odor:	Mild petroleum odor	Vapor Pressure:	Not established
Odor Threshold:	Not established	Vapor Density:	Greater than 1 (air=1)
pH:	Not established	Relative Density:	Not established
Melting/Freezing Point:	Not established	Solubilities:	Insoluble in water
Boiling Point/Range:	320-388°F (160-198°C)	Partition Coefficient; n-	Not established
	(Aliphatic Hydrocarbon)	octanol/water:	
Flash Point:	109°F (43°C) (Aliphatic	Autoignition	Not established
	Hydrocarbon)	Temperature:	
Evaporation Rate:	Not established	Decomposition	Not established
		Temperature:	
Flammability (solid, gas):	Flammable Aerosol	Viscosity:	Not established
VOC:	533 grams/liter (65%)	Pour Point:	Not established

# 10 - Stability and Reactivity

Reactivity: Non-reactive

Chemical Stability: Stable under normal storage and handling conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

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, smoke fumes, unburned

hydrocarbons.

# 11 - Toxicological Information

# Symptoms of Overexposure:

**Inhalation:** Mist or vapors can irritate the throat and lungs. 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, stinging, swelling and tearing. **Ingestion:** This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. 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.

**Medical Conditions Aggravated by Exposure:** Preexisting eye, skin and respiratory conditions may be aggravated by exposure.

# **Suspected Cancer Agent:**

Yes No X

# **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 expected to be 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

#### **U.S. Federal Regulations:**

**CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

# **SARA TITLE III:**

Hazard Category For Section 311/312: See OSHA Hazard Classification in Section 2.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.

#### **International Information:**

China Regulations on the Control over Safety of Dangerous Chemicals: All ingredients in this product are listed on the IECSC (Inventory of Existing Chemical Substances in China 2010).

Korea: All of the components of this product are listed on the Korean chemical inventory.

**Philippines:** This product contains an ingredient that is not listed on the PICCS. Only limited volumes can be imported. Contact WD40 for more information.

Japan: All of the components of this product are listed on the Japanese chemical inventory.

**Taiwan**: All the components of this product are listed on the Taiwan Inventory.

#### 16 – Other Information

# **HMIS Hazard Rating:**

Health – 2 (moderate hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: December 2017 Supersedes: November 2015

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

2021300/No.

Date Issued: November, 2004 Supersedes: November, 2003

# MATERIAL SAFETY DATA SHEET ZOECON ALTOSID® BRIQUETS

Manufacturer: Wellmark International

Address: 1501 E. Woodfield Rd., Suite 200 West, Schaumburg, IL 60173

**Emergency Phone:** 1-800-248-7763

Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

# 1. CHEMICAL PRODUCT INFORMATION

Product Name: Zoecon Altosid® Briquets

Chemical Name/Synonym: S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-

dodecadienoate

Chemical Family: Terpenoid

Formula: C19 H34 O3

EPA Registration No.: 2724-375-

RF Number: 433A

# 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component (chemical, common name)	<u>CAS</u> <u>Number</u>	Weight	<u>Tolerance</u>
<b>(S)-Methoprene</b> : Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	8.62%	Not established
Inert ingredients (non-hazardous and/or trade secret):		91.38%	

# 3. HAZARD INFORMATION

#### PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children...

# SIGNS AND SYMPTOMS OF OVEREXPOSURE

No adverse reactions have resulted from normal human exposure during research and testing. Adverse animal reactions to this product have not been shown.

PRIMARY ROUTE OF ENTRY Dermal/Eye: Yes Oral: Yes Inhalation: Yes

ACUTE TOXICITY Oral: LD50 (rat): > 34,600 mg/kg bw (highest dose level tested) (Based on S-

Methoprene)

**Dermal:** LD50 (rabbit) >5,000 mg/kg bw) (Based on S-Methoprene)

Inhalation: LC50 (rat): >5.19 mg/L air (Based on S-Methoprene)

# OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** Non-irritating (rabbit) (Based on S-Methoprene)

**Eye Irritation:** Practically non-irritating (rabbit) (Based on S-Methoprene)

Sensitizer: Not a sensitizer(guinea pig) (Based on S-Methoprene)

# 4. FIRST AID MEASURES

**Eye:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue

rinsing eyes.

**Skin:** Wash material off with soap and water. Remove contaminated clothing and

footwear. See a physician if symptoms persist.

**Ingestion:** Drink 1-2 glasses of water and try to induce vomiting. Seek medical attention.

Never give anything by mouth to an unconscious person.

**Inhalation:** Remove victim to fresh air. See a physician if cough or other respiratory

symptoms develop

Note to Physician: Treat symptomatically

# 5. FIRE FIGHTING MEASURES

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

Flammability Class: N/A

Flash Point: Does not flash

Explosive Limits (% of Volume): N/A

Extinguishing Media: Water, foam, dry chemical

Special Protective Equipment: Firefighters should wear protective clothing, eye protection, and self contained

breathing apparatus.

Fire Fighting Procedures: Normal procedures. Do not allow run-off to enter waterways inhabited by

aquatic organisms

Combustion Products: Carbon dioxide, carbon monoxide

Unusual Fire/Explosion Hazards: None

# 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Sweep up material and place in a container for disposal. Do not allow spill to

enter waterways inhabited by aquatic organisms

**Absorbents:** None necessary due to product form

Incompatibles: None

# 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly

with soap and water after handling.

Storage: Store in a cool, dry place. Do not contaminate food or feed by storage or

disposal. Keep away from children.

#### 8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Not applicable

**Ventilation:** Use with adequate ventilation.

Personal Protective Under ordinary use conditions, no special protection is required. If prolonged exposure

Equipment: is expected, it is recommended to wear a MSHA/NIOSH approved organic

vapor/pesticide respirator, impervious gloves, chemical goggles or safety glasses with

side shields.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Grey to black solid with slight hydrocarbon odor.

**Boiling Point:** N/A

Melting Point: N/A

Vapor Pressure (mm Hg): N/A Vapor Density (Air = 1): N/A

Specific Gravity: 1.4 g/cc

Bulk Density: N/A

Solubility: 1 ppm

Evaporation Rate: N/A

pH: N/A

# 10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Non-reactive

Incompatibility w/ Other None

Materials:

**Decomposition Products:** None

Hazardous Polymerization: Will not occur

#### 11. TOXICOLOGICAL INFORMATION

# **CHRONIC TOXICITY** [Based on (RS)-Methoprene Technical]

Methoprene is not considered as a carcinogen. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm.

# **DEVELOPMENTAL/REPRODUCTIVE TOXICITY** [Based on (RS)-Methoprene Technical]

Methoprene is not a teratogen. The NOEL for maternal and embryo toxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

# **MUTAGENICITY** [Based on (RS)-Methoprene Technical]

Methoprene is not a mutagen.

# 12. ECOLOGICAL INFORMATION

#### **ENVIRONMENTAL FATE** [Based on (RS)-Methoprene Technical]

**Hydrolysis:** T1/2 > 4 weeks

**Photolysis:** T1/2 < 10 hours

Soil half life: ~ 10 days

Water solubility: < 2 ppm

# **ECOTOXICITY** [Based on (S)-Methoprene Technical]

Acute Toxicity: fish:LC50 (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene); aquatic

invertebrates:LC50 (Daphnia): 360 ppb ((S)-Methoprene. )

# 13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product may be disposed of on site or at an approved waste management facility. Triple rinse (or equivalent). Do not contaminate water when disposing of rinsate or equipment wash waters. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# 14. TRANSPORT INFORMATION

**DOT49CFR Description:** Not regulated as hazardous by D.O.T.

Freight Classification: Insecticides, NOI other than poison in boxes or drums. NMFC 102120

# 15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated

RCRA: Not regulated as hazardous

#### **SARA 311/312 HAZARD CATEGORIES**

Immediate Health: Yes (irritation)

Delayed Health: No

Fire: No

Sudden Pressure: No

Reactivity: No

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.