

Safety Data Sheets

CAO



Courthouse Annex, 2nd Floor, Bisbee

11/25/2019



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SECTION 1: Identification

1.1. Product identifier

3M(TM) Spra-ment(TM) Craft and Display Adhesive 6060

Product Identification Numbers

62-4938-3730-6, 62-4938-4826-1, 62-4938-4830-3, 70-0051-8329-1

1.2. Recommended use and restrictions on use

Recommended use

Adhesive

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Stationery and 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

Flammable Aerosol: Category 1.
Gas Under Pressure: Liquefied gas.
Serious Eye Damage/Irritation: Category 2A.
Reproductive Toxicity: Category 2.
Simple Asphyxiant.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (central nervous system): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Gas cylinder | Exclamation mark | Health Hazard |

Pictograms



Hazard Statements

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.

Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of damaging fertility or the unborn child.
May displace oxygen and cause rapid suffocation.

Causes damage to organs:
cardiovascular system |

Precautionary Statements

General:

Keep out of reach of children.

Prevention:

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear eye/face protection.
Wear protective gloves.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
IF exposed: Call a POISON CENTER or doctor/physician.
Specific treatment (see Notes to Physician on this label).

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal:

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

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Hazards not otherwise classified

May cause frostbite.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
NON-HAZARDOUS INGREDIENTS	Trade Secret*	10 - 35
ACETONE	67-64-1	20 - 30 Trade Secret *
PROPANE	74-98-6	15 - 25 Trade Secret *
CYCLOHEXANE	110-82-7	10 - 20 Trade Secret *
2-METHYLPENTANE	107-83-5	3 - 7 Trade Secret *
PENTANE	109-66-0	1 - 5 Trade Secret *
2,2-DIMETHYLBUTANE	75-83-2	1 - 3 Trade Secret *
2,3-DIMETHYLBUTANE	79-29-8	1 - 3 Trade Secret *
3-METHYLPENTANE	96-14-0	1 - 3 Trade Secret *
LIMESTONE	1317-65-3	0.5 - 1.5
HEXANE	110-54-3	0 0.7668 Trade Secret *

*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. Get medical attention.

Skin Contact:

Thaw frosted skin with lukewarm water. Do not rub affected area. Get medical attention.

Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures**5.1. Suitable extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

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

Hazardous Decomposition or By-Products

Substance

Aldehydes
 Hydrocarbons
 Carbon monoxide
 Carbon dioxide

Condition

During Combustion
 During Combustion
 During Combustion
 During Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
2-METHYLPENTANE	107-83-5	ACGIH	TWA:500 ppm;STEL:1000 ppm	
PENTANE	109-66-0	ACGIH	TWA:1000 ppm	

PENTANE	109-66-0	OSHA	TWA:2950 mg/m3(1000 ppm)	
HEXANE	110-54-3	ACGIH	TWA:50 ppm	Skin Notation
HEXANE	110-54-3	OSHA	TWA:1800 mg/m3(500 ppm)	
CYCLOHEXANE	110-82-7	ACGIH	TWA:100 ppm	
CYCLOHEXANE	110-82-7	OSHA	TWA:1050 mg/m3(300 ppm)	
LIMESTONE	1317-65-3	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
ACETONE	67-64-1	ACGIH	TWA:250 ppm;STEL:500 ppm	A4: Not class. as human carcin
ACETONE	67-64-1	OSHA	TWA:2400 mg/m3(1000 ppm)	
PROPANE	74-98-6	ACGIH	Limit value not established:	
PROPANE	74-98-6	OSHA	TWA:1800 mg/m3(1000 ppm)	
2,2-DIMETHYLBUTANE	75-83-2	ACGIH	TWA:500 ppm;STEL:1000 ppm	
2,3-DIMETHYLBUTANE	79-29-8	ACGIH	TWA:500 ppm;STEL:1000 ppm	
3-METHYLPENTANE	96-14-0	ACGIH	TWA:500 ppm;STEL:1000 ppm	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

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

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

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:

Indirect Vented Goggles

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: Nitrile Rubber

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Thermal hazards

Wear cold insulating gloves/face shield/eye protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Gas
Specific Physical Form:	Aerosol
Odor, Color, Grade:	clear, sweet fruity odor
Odor threshold	<i>No Data Available</i>
pH	<i>No Data Available</i>
Melting point	<i>No Data Available</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	-42.00 °F [<i>Test Method: Tagliabue Closed Cup</i>]
Evaporation rate	1.9 [<i>Ref Std: ETHER=1</i>]
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Flammable Limits(LEL)	<i>No Data Available</i>
Flammable Limits(UEL)	<i>No Data Available</i>
Vapor Density	2.97 [<i>Ref Std: AIR=1</i>]
Specific Gravity	0.726 [<i>Ref Std: WATER=1</i>]
Solubility in Water	Nil
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>Not Applicable</i>
Viscosity	<i>Not Applicable</i>
Hazardous Air Pollutants	<=.4 % weight [<i>Test Method: Calculated</i>]
Volatile Organic Compounds	Approximately 51 % [<i>Test Method: calculated SCAQMD rule 443.1</i>]
Percent volatile	<=75 % weight

SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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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:

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

Skin Contact:

Frostbite: Signs/symptoms may include intense pain, discoloration of skin, and tissue destruction.

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

Eye Contact:

Frostbite: Signs/symptoms may include intense pain, clouding of the cornea, redness, swelling, and blindness.

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Ingestion:

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

May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Single exposure, above recommended guidelines, may cause:

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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
PROPANE	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
ACETONE	Dermal	Rabbit	LD50 > 15,688 mg/kg
ACETONE	Inhalation-Vapor (4 hours)	Rat	LC50 76 mg/l
ACETONE	Ingestion	Rat	LD50 5,800 mg/kg
CYCLOHEXANE	Dermal	Rat	LD50 > 2,000 mg/kg
CYCLOHEXANE	Inhalation-Vapor (4 hours)	Rat	LC50 > 32.9 mg/l
CYCLOHEXANE	Ingestion	Rat	LD50 6,200 mg/kg
2-METHYLPENTANE	Dermal		LD50 estimated to be > 5,000 mg/kg
2-METHYLPENTANE	Inhalation-Vapor		LC50 estimated to be > 50 mg/l
2-METHYLPENTANE	Ingestion		LD50 estimated to be > 5,000 mg/kg
3-METHYLPENTANE	Dermal		LD50 estimated to be > 5,000 mg/kg
3-METHYLPENTANE	Inhalation-Vapor		LC50 estimated to be > 50 mg/l
3-METHYLPENTANE	Ingestion		LD50 estimated to be > 5,000 mg/kg
2,2-DIMETHYLBUTANE	Dermal		LD50 estimated to be > 5,000 mg/kg
2,2-DIMETHYLBUTANE	Inhalation-Vapor		LC50 estimated to be > 50 mg/l
2,2-DIMETHYLBUTANE	Ingestion		LD50 estimated to be > 5,000 mg/kg
2,3-DIMETHYLBUTANE	Dermal		LD50 estimated to be > 5,000 mg/kg
2,3-DIMETHYLBUTANE	Inhalation-Vapor		LC50 estimated to be > 50 mg/l
2,3-DIMETHYLBUTANE	Ingestion		LD50 estimated to be > 5,000 mg/kg
NON-HAZARDOUS INGREDIENTS	Dermal		LD50 estimated to be > 5,000 mg/kg
NON-HAZARDOUS INGREDIENTS	Ingestion	Rat	LD50 > 34,000 mg/kg
PENTANE	Dermal	Rabbit	LD50 3,000 mg/kg
PENTANE	Inhalation-Vapor (4 hours)	Rat	LC50 > 18 mg/l
PENTANE	Ingestion	Rat	LD50 > 2,000 mg/kg
LIMESTONE	Dermal	Rat	LD50 > 2,000 mg/kg
LIMESTONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
LIMESTONE	Ingestion	Rat	LD50 6,450 mg/kg
HEXANE	Dermal	Rabbit	LD50 > 2,000 mg/kg
HEXANE	Inhalation-Vapor (4 hours)	Rat	LC50 170 mg/l
HEXANE	Ingestion	Rat	LD50 > 28,700 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
PROPANE	Rabbit	Minimal irritation
ACETONE	Mouse	Minimal irritation
CYCLOHEXANE	Rabbit	Mild irritant
2-METHYLPENTANE	Professional	Mild irritant

	judgement	
3-METHYLPENTANE	Professional judgement	Mild irritant
2,2-DIMETHYLBUTANE	Professional judgement	Mild irritant
2,3-DIMETHYLBUTANE	Professional judgement	Mild irritant
PENTANE	Rabbit	Minimal irritation
LIMESTONE	Rabbit	No significant irritation
HEXANE	Human and animal	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
PROPANE	Rabbit	Mild irritant
ACETONE	Rabbit	Severe irritant
CYCLOHEXANE	Rabbit	Mild irritant
2-METHYLPENTANE	Professional judgement	Moderate irritant
3-METHYLPENTANE	Professional judgement	Moderate irritant
2,2-DIMETHYLBUTANE	Professional judgement	Moderate irritant
2,3-DIMETHYLBUTANE	Professional judgement	Moderate irritant
PENTANE	Rabbit	Mild irritant
LIMESTONE	Rabbit	No significant irritation
HEXANE	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
PENTANE	Guinea pig	Not sensitizing
HEXANE	Human	Not sensitizing

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
PROPANE	In Vitro	Not mutagenic
ACETONE	In vivo	Not mutagenic
ACETONE	In Vitro	Some positive data exist, but the data are not sufficient for classification
CYCLOHEXANE	In Vitro	Not mutagenic
CYCLOHEXANE	In vivo	Some positive data exist, but the data are not sufficient for classification

PENTANE	In vivo	Not mutagenic
PENTANE	In Vitro	Some positive data exist, but the data are not sufficient for classification
HEXANE	In Vitro	Not mutagenic
HEXANE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
ACETONE	Not Specified	Multiple animal species	Not carcinogenic
HEXANE	Dermal	Mouse	Not carcinogenic
HEXANE	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
ACETONE	Ingestion	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,700 mg/kg/day	13 weeks
ACETONE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 5.2 mg/l	during organogenesis
CYCLOHEXANE	Inhalation	Not toxic to female reproduction	Rat	NOAEL 24 mg/l	2 generation
CYCLOHEXANE	Inhalation	Not toxic to male reproduction	Rat	NOAEL 24 mg/l	2 generation
CYCLOHEXANE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 6.9 mg/l	2 generation
PENTANE	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
PENTANE	Inhalation	Not toxic to development	Rat	NOAEL 30 mg/l	during organogenesis
LIMESTONE	Ingestion	Not toxic to development	Rat	NOAEL 625 mg/kg/day	prematuring & during gestation
HEXANE	Ingestion	Not toxic to development	Mouse	NOAEL 2,200 mg/kg/day	during organogenesis
HEXANE	Inhalation	Some positive developmental data exist, but the data are not sufficient for classification	Rat	NOAEL 0.7 mg/l	during gestation
HEXANE	Ingestion	Toxic to male reproduction	Rat	NOAEL 1,140 mg/kg/day	90 days
HEXANE	Inhalation	Toxic to male reproduction	Rat	LOAEL 3.52 mg/l	28 days

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
PROPANE	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
PROPANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
PROPANE	Inhalation	respiratory irritation	All data are negative	Human	NOAEL Not available	
ACETONE	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	

		system depression	dizziness		available	
ACETONE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ACETONE	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 hours
ACETONE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	
ACETONE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
CYCLOHEXANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
CYCLOHEXANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
CYCLOHEXANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-METHYLPENTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-METHYLPENTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
2-METHYLPENTANE	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	
2-METHYLPENTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
3-METHYLPENTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
3-METHYLPENTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
3-METHYLPENTANE	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	
3-METHYLPENTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2,2-DIMETHYLBUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2,2-DIMETHYLBUTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
2,2-DIMETHYLBUTANE	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	
2,2-DIMETHYLBUTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2,3-DIMETHYLBUTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	

2,3-DIMETHYLBUTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
2,3-DIMETHYLBUTANE	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	
2,3-DIMETHYLBUTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
PENTANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
PENTANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Not available	NOAEL Not available	not available
PENTANE	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL Not available	not available
PENTANE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	not available
LIMESTONE	Inhalation	respiratory system	All data are negative	Rat	NOAEL 0.812 mg/l	90 minutes
HEXANE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
HEXANE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL Not available	8 hours
HEXANE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24.6 mg/l	8 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
ACETONE	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL Not available	3 weeks
ACETONE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 3 mg/l	6 weeks
ACETONE	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL 1.19 mg/l	6 days
ACETONE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	NOAEL 119 mg/l	not available
ACETONE	Inhalation	heart liver	All data are negative	Rat	NOAEL 45 mg/l	8 weeks
ACETONE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 900 mg/kg/day	13 weeks
ACETONE	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
ACETONE	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	13 weeks
ACETONE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 3,896 mg/kg/day	14 days
ACETONE	Ingestion	eyes	All data are negative	Rat	NOAEL 3,400 mg/kg/day	13 weeks
ACETONE	Ingestion	respiratory system	All data are negative	Rat	NOAEL	13 weeks

					2,500 mg/kg/day	
ACETONE	Ingestion	muscles	All data are negative	Rat	NOAEL 2,500 mg/kg	13 weeks
ACETONE	Ingestion	skin bone, teeth, nails, and/or hair	All data are negative	Mouse	NOAEL 11,298 mg/kg/day	13 weeks
CYCLOHEXANE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 24 mg/l	90 days
CYCLOHEXANE	Inhalation	auditory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.7 mg/l	90 days
CYCLOHEXANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL 2.7 mg/l	10 weeks
CYCLOHEXANE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 24 mg/l	14 weeks
CYCLOHEXANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 8.6 mg/l	30 weeks
2-METHYLPENTANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 5.3 mg/l	14 weeks
2-METHYLPENTANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	8 weeks
2-METHYLPENTANE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2,000 mg/kg	28 days
3-METHYLPENTANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 5.3 mg/l	14 weeks
3-METHYLPENTANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	8 weeks
3-METHYLPENTANE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2,000 mg/kg	28 days
2,2-DIMETHYLBUTANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 5.3 mg/l	14 weeks
2,2-DIMETHYLBUTANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	8 weeks
2,2-DIMETHYLBUTANE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2,000 mg/kg	28 days
2,3-DIMETHYLBUTANE	Inhalation	peripheral nervous system	All data are negative	Rat	NOAEL 5.3 mg/l	14 weeks
2,3-DIMETHYLBUTANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	8 weeks
2,3-DIMETHYLBUTANE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2,000 mg/kg	28 days
PENTANE	Inhalation	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
PENTANE	Inhalation	heart skin endocrine system bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system	All data are negative	Rat	NOAEL 20 mg/l	13 weeks

PENTANE	Ingestion	kidney and/or bladder	All data are negative	Rat	NOAEL 2,000 mg/kg/day	28 days
LIMESTONE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
HEXANE	Inhalation	peripheral nervous system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
HEXANE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 1.76 mg/l	13 weeks
HEXANE	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 months
HEXANE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1.76 mg/l	6 months
HEXANE	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 35.2 mg/l	13 weeks
HEXANE	Inhalation	auditory system immune system eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
HEXANE	Inhalation	heart skin endocrine system	All data are negative	Rat	NOAEL 1.76 mg/l	6 months
HEXANE	Ingestion	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,140 mg/kg/day	90 days
HEXANE	Ingestion	endocrine system hematopoietic system liver immune system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	13 weeks

Aspiration Hazard

Name	Value
CYCLOHEXANE	Aspiration hazard
2-METHYLPENTANE	Aspiration hazard
3-METHYLPENTANE	Aspiration hazard
2,2-DIMETHYLBUTANE	Aspiration hazard
2,3-DIMETHYLBUTANE	Aspiration hazard
PENTANE	Aspiration hazard
HEXANE	Aspiration hazard

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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> 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 - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
CYCLOHEXANE	110-82-7	Trade Secret 10 - 20

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

Non hazardous according to WHMIS criteria.

This material contains one or more ingredients that may be regulated by the International Traffic in Arms Regulation (ITAR), an export control of US military technology and chemicals. Prior to export of this material or any product containing this material, determine whether a proper license from the Department of State must be obtained. See 22CFR 120-130 for any specific requirements.

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: 3 Flammability: 4 Instability: 0 Special Hazards: None
Aerosol Storage Code: 3

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: 3 Flammability: 4 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) 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® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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3M USA SDSs are available at www.3M.com



SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: ABC Dry Chemical Fire Extinguishant
 Other Identifiers: Multi-purpose Dry Chemical
 Product Code(s): CH555, F13, F11
 Model Code(s) of Extinguishers: 402, IS 18ABC, IS35ABC, IS 45ABC, 13ABC, V25ABC, VH25ABC, V30ABC, VH30ABC, V50ABC, VS50ABC, VS75ABC, V250ABC
 Recommended Use: Fire suppression, not for human or animal drug use.
 Manufacturer: AMEREX CORPORATION
 Internet Address: www.amerex-fire.com
 Address: 7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081
 Company Telephone: (205) 655-3271
 E-mail Address: info@amerex-fire.com
 Emergency Contacts: Chemtrec 1(800) 424-9300 or (703) 527-3887
 Revised: March 13, 2018

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

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

GHS – Label Symbol(s):

If Pressurized: Gas Under Pressure

GHS – Words(s): Warning

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling

lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5µm; therefore, the clay is not considered to be carcinogenic in animals or humans.

GHS – Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	H303 315 319 335	May be harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation
Environmental	None	
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand
Prevention	P251 261 264 280	Do not pierce or burn, even after use. Avoid breathing dust/fumes/gas/mist/vapours/spray. Wash exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Response	P312 321 362 302+352 304+340 305+351+338 332+313 342+311 337+313	Call a doctor if you feel unwell. Specific treatment (see Section 4. First Aid Measures) Take off contaminated clothing. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a doctor. If eye irritation persists get medical advice/attention.
Storage	P410 +403	*- Protect from sunlight. Store in well-ventilated place.
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should be disposed of as unused product.

*- If under pressure

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %	Classification
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	80-98	NA
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-16	NA
Mica-potassium aluminum silicate	310-1276	Not Available	12001-26-2	1-2	NA
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1	NA
Calcium carbonate	207-439-9	Not Available	1317-65-3	<1	NA
Amorphous silica precipitated synthetic zeolite	231-545-4	01-2119379499-16-0036	7631-86-9	<1	NA
Yellow 14 pigment – di-azo dye	226-789-3	Not Available	5468-75-7	<1	NA

Emergency overview:

Light yellow, fine solid powder, odorless.

Adverse health effects and symptoms:

Mild irritant to the respiratory system. Irritant to eyes, and skin. Symptoms may include coughing,

shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

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

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not determined
Suitable Extinguishing Media:	Non-combustible. Use extinguishing media suitable for surrounding conditions.
Hazardous Combustion Products:	Carbon oxides

Explosion Data:

Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Unusual fire/explosion hazards:	In a fire this material may decompose, releasing oxides of carbon, potassium and nitrogen (see Section 10).
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand. NIOSH (approved or equivalent) and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

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

Section 7. HANDLING AND STORAGE

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

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono-ammonium phosphate	PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	NA
Mica	6 mg/m ³	3 mg/m ³	-----	NA
Attapulgite clay	PNOC** Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	PNOC Total dust, 4 mg/m ³ Respirable fraction, 1.5 mg/m ³	
Silicone oil	NR**	NR		
Calcium carbonate	PNOC Total dust, 15 mg/m ³ Respirable fraction, 5 mg/m ³	PNOC Total dust, 10 mg/m ³ Respirable fraction, 3 mg/m ³	-----	NA
Amorphous silica	20mppcf $\frac{80 \text{ mg/m}^3}{\text{or } \% \text{ SiO}_2}$	10 mg/m ³	4 mg/m ³	NA
Yellow 14 pigment	NR	NR	NR	NA

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

Engineering Controls:

Showers
Eyewash stations
Ventilation systems

Personal Protective Equipment – PPE Code E:

The need for respiratory protection is not probable during short-term exposure. During production, the manufacturer should use judgement concerning the need for PPE.



Eye/Face Protection:
Skin and Body Protection:
Respiratory Protection:

Tightly fitting safety goggles
Wear protective gloves/coveralls
If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure. Use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged

exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. The need for respiratory protection is not likely for short-term use in well ventilated areas.

Hygiene Measures:

Good personal hygiene practices essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow powder, finely divided odorless solid
Molecular Weight:	NH ₄ H ₂ PO ₄ : 115.03
Odor:	Odorless
Odor Threshold:	No information available
Decomposition Temperature °C:	100 - 120
Freezing Point °C:	No information available
Initial Boiling Point °C:	No information available
Physical State:	Crystalline Powder
pH:	Approximately 4.4 to 4.9
Flash Point °C:	None
Autoignition Temperature °C:	None
Boiling Point/Range °C:	No information available
Melting Point/Range °C:	NH ₄ H ₂ PO ₄ : 190
Flammability/Explosion Limits in Air °C:	Upper – None; Lower-None
Explosive Properties:	None
Oxidizing Properties:	None
Volatile Component (%vol)	Not applicable
Evaporation Rate:	No information available
Vapor Density:	No information available
Vapor Pressure:	NH ₄ H ₂ PO ₄ : 1.41 mm/Hg
Specific gravity at 25 °C:	NH ₄ H ₂ PO ₄ : 1.80
Solubility:	40.4 g/100 ml
Partition Coefficient:	NH ₄ H ₂ PO ₄ Est: -4.11
Viscosity:	No information available

NOTE: NH₄H₂PO₄ – Monoammonium Phosphate

Section 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage and handling conditions.
Incompatibles:	Strong oxidizing agents; Strong acids; sodium hypochlorite and chlorine compounds. Protect from moisture
Conditions to Avoid:	Storage or handling near incompatibles.
Hazardous Decomposition Products:	Carbon, nitrogen, and potassium oxides. Heat of fire may release carbon monoxide.
Possibility of Hazardous Reactions:	None
Hazardous Polymerization	Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation, skin and eye contact.
Symptoms:	
Inhalation:	Irritation, coughing.
Eyes:	Irritation.
Skin:	Irritation.
Acute Toxicity:	Relatively non-toxic.
Chronic Toxicity:	
Short-term Exposure:	None known.
Long-term Exposure:	As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name	LD50		LC50 (Inhalation)
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Mica	None	None	None
Attapulgite clay	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

Reproductive Toxicity:	This product's ingredients are not known to have reproductive or teratogenic effects.
Target Organs and Effects (TOST):	Respiratory system (mild irritant). This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcinogenicity	Reproductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Attapulgite clay	None	None	None	None	None	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Negative effects unknown. Provides nutrient nitrogen and phosphorus to plant life.
Persistence/Degradability:	Degrades rapidly in humid/wet environment.
Probability of rapid biodegradation:	NH ₄ H ₂ PO ₄ Est: 0.693 (Rapid); (NH ₄) ₂ SO ₄ : Est: 0.684 (Rapid)
Anaerobic biodegradation probability:	NH ₄ H ₂ PO ₄ Est: 0.398 (Slow); (NH ₄) ₂ SO ₄ : Est: 0.398 (Slow)
Bioaccumulation potential:	Low.
Bioconcentration factor:	NH ₄ H ₂ PO ₄ : 3.16 L/kg (wet weight) (Low BCF)
Bioaccumulation factor:	NH ₄ H ₂ PO ₄ : 63.04 L/kg (wet weight)
Mobility in soil:	Slow evaporation rate; water soluble, may leach to groundwater
Log Koc:	NH ₄ H ₂ PO ₄ Est: -1.25
Log Koa:	NH ₄ H ₂ PO ₄ Est: 16.72
Log Kaw:	NH ₄ H ₂ PO ₄ Est: -20.86
NOTE: NH ₄ H ₂ PO ₄ – Mono-ammonium Phosphate	

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values – Environment – Research

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

Aquatic Toxicity Values – Environment – Estimates

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

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling

Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8).

Waste Disposal Considerations

Dispose in accordance with federal, state, and local regulations.

Contaminated Packaging

Dispose in accordance with federal, state, and local regulations.

NOTES:

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

Section 14. TRANSPORT INFORMATION

UN Number: NA
 UN Proper Shipping Name: NA
 Transport Hazard Class: NA
 Packing Group: NA
 Marine Pollutant?: NO

IATA Not regulated

DOT Not regulated

NOTES:

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

Special Precautions for Shipping:

The transportation information above covers the ABC 555 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic

inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title XVII Restrictions: No information available

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

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Monoammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgitte clay 12174-11-7 (>3)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica-potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 69012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification:	Xn - Irritant	
R Phrases:	20	Harmful by inhalation.
	36/37/38	Irritating to eyes, respiratory system and skin.
S Phrases:	22	Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

U.S. Federal Regulatory Information:

SARA 313:

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

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

SARA 311/312 Hazard Categories:

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

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

Clean Water/Clean Air Acts:

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

U.S. State Regulatory Information:

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

Alaska - Designated Toxic and Hazardous Substances: None

California – Permissible Exposure Limits for Chemical Contaminants: None

Florida – Substance List: Mica Dust

Illinois – Toxic Substance List: None

Kansas – Section 302/303 List: None

Massachusetts – Substance List: Mica Dust

Minnesota – List of Hazardous Substances: None
Missouri – Employer Information/Toxic Substance List: None
New Jersey – Right to Know Hazardous Substance List: None
North Dakota – List of Hazardous Chemicals, Reportable Quantities: None
Pennsylvania – Hazardous Substance List: None
Rhode Island – Hazardous Substance List: Mica Dust
Texas – Hazardous Substance List: No
West Virginia – Hazardous Substance List: None
Wisconsin – Toxic and Hazardous Substances: None

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

Other:

Mexico – Grade	No component listed
Canada – WHMIS Hazard Class	No component listed

Section 16. OTHER INFORMATION

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

Issuing Date	17-June-2012
Revision Date	13-March-2018
Revision Notes	None

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



Ajax Oxygen Bleach Cleanser

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.

Version 1.2

Revision Date 05/17/2012

Print Date 05/17/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ajax Oxygen Bleach Cleanser
MSDS Number : 200000025181
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 (24HR): For MEDICAL EMERGENCIES involving this product call: (888) 489-3861

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : White

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

OSHA-REGULATED COMPONENTS (present at a concentration of > or = 1%)

Chemical Name	CAS-No.	Concentration *
LIMESTONE	1317-65-3	60.00 - 100.00
SODIUM CARBONATE	497-19-8	5.00 - 10.00
SODIUM DODECYL BENZENE SULFONATE	25155-30-0	1.00 - 5.00



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*All concentrations are present by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

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

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** : Remarks: not applicable

Fire fighting

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Protective equipment and precautions for firefighters

- Special protective** : Self-contained breathing apparatus and full protective clothing



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equipment for firefighters should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protection recommended in Section 8 of the MSDS.

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

Components with workplace control parameters

Chemical Name	CAS-No.	Value	Exposure Limits	Source	Notes
LIMESTONE	1317-65-3	REL	10 mg/m3	NIOSH/GUIDE	Total
		REL	5 mg/m3	NIOSH/GUIDE	Respirable.
		PEL	15 mg/m3	OSHA_TRANS	Total dust.
		PEL	5 mg/m3	OSHA_TRANS	Respirable fraction.
		TWA	15 mg/m3	Z1A	Total dust.
		TWA	5 mg/m3	Z1A	Respirable fraction.

Engineering Controls : In an industrial work environment, no special precautions or control measures are required.



Ajax Oxygen Bleach Cleanser

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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 goggles. 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

Physical state : solid
Appearance : White

Flash point : Note: not applicable

pH : 10.5

Density : 1.04 g/cm³

SECTION 10. STABILITY AND REACTIVITY

Materials to avoid : Remarks: Strong oxidizing agents

Hazardous decomposition products : Note: None known.

Hazardous reactions : 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

Ajax Oxygen Bleach Cleanser

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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.

SECTION 15. REGULATORY INFORMATION

US Regulations

SARA

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A) : SULFUR DIOXIDE

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity : 58411 lbs

SODIUM DODECYL BENZENE SULFONATE

Clean Air Act

Clean Water Act



Ajax Oxygen Bleach Cleanser

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**Clean Water Act Section 311
Hazardous Substances (40 CFR
117.3)** : SODIUM DODECYL BENZENE
SULFONATE

State Regulations

**Massachusetts Right-To-
Know List** : LIMESTONE
SODIUM DODECYL BENZENE SULFONATE
SULFUR DIOXIDE

**New Jersey Right-To-
Know List** : SODIUM CARBONATE
LIMESTONE
SODIUM DODECYL BENZENE SULFONATE

**Pennsylvania Right-To-
Know List** : SODIUM CARBONATE
LIMESTONE
SODIUM DODECYL BENZENE SULFONATE

Canada

**Canadian Workplace Hazardous Materials
Information System (WHMIS) Listed Material** : SODIUM CARBONATE
SODIUM DODECYL BENZENE SULFONATE

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

SECTION 16. OTHER INFORMATION

Further information

MSDS Number : 200000025181



Ajax Oxygen Bleach Cleanser

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Print Date 05/17/2012

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.

SAFETY DATA SHEET

1 – PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Hand Sanitizer
Formula #: Various
Issue Date: October 2014
Recommended Use: Personal care/Hand Sanitizer
Manufacturer's Name & Address: Apollo Health and Beauty Care
 1 Apollo Place
 Toronto, Ontario, Canada M3J 0H2
Telephone No.: (416) 758-3700 **Fax:** (416) 758-3701
Website: www.apollocorp.com



2 – HAZARDOUS IDENTIFICATION

Emergency Overview

May cause eye irritation

Appearance: Clear gel **Physical State:** Liquid **Odor:** Mild

Potential Health Effects:

Principal Routes of Exposure: Eye contact. Skin Contact. Inhalation

Acute Toxicity:

Eyes: May cause irritation **Skin:** May cause slight irritation
Chronic Effects: None known **Aggravated Medical Conditions:** None known
Inhalation: Inhalation of mist or spray may cause irritation of respiratory tract.
Ingestion: May cause irritation of the gastrointestinal tract.
Environmental Hazard: None known

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Ethanol	64-17-5	60.0 -70.0 %
Others		< 2.0 %

4 – FIRST AID MEASURES

Eyes: Flush eyes immediately with copious amounts of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention.
Skin: Wash thoroughly with soap and water. Remove contaminated clothing and footwear. Wash clothing prior to reuse. Seek medical attention if irritation should develop.
Inhalation: Move to fresh air. If symptoms persist, seek medical attention.
Ingestion: Have conscious patient drink several glasses of water. Keep the air passages clear. Do NOT induce vomiting. Seek medical help. Never give an unconscious patient anything by mouth.
Notes to Physician: Treat symptomatically.

5 – FIRE-FIGHTING MEASURES

Flammable Properties: Yes **Flash Point:** 30-32°C
Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous Combustion Products: Carbon oxides
Explosion Data:
Sensitivity to Mechanical Impact: No **Sensitivity to Static Discharge:** No
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 3 Stability 0 Physical & Chemical Hazards: --

SAFETY DATA SHEET

Hand Sanitizer

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes.
Environmental Precautions: Refer to protective measures listed in sections 7 and 8.
Methods of Containment: Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up: Dam up. Soak up with inert absorbent material.

7 – HANDLING AND STORAGE

Handling: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.
Storage: Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures: Showers, Eyewash stations, Ventilation systems
Personal Protective Equipment:
Eye/Face Protection: Tight fitting safety goggles.
Skin and Body Protection: No special protective equipment required
Respiratory Protection: No protective equipment is needed under normal conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required
Hygiene Measures: When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal feeding stuffs.

9-PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Green	Odor: Mild alcoholic odor	Odor Threshold: Ethanol=0.1-5100
Physical State: Liquid	pH: 6.0-8.0	Viscosity: 10,000-25,000cps
Flash Point: 30-32°C	Decomposition Temperature: No data available	Boiling Point/Range: 80-85°C
Melting Point / Range: No data available	Water Solubility: Soluble in water	Solubility: No data available
Evaporation Rate: > 1.7	Vaporation Rate: No data available	Partition Coefficient: n-octanol/water: No data available

10-STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions. **Conditions to avoid:** Strong acids, strong bases, strong oxidizing agents
Incompatible Products: Not known **Hazardous Decomposition Products:** Carbon oxides
Hazardous Polymerization: Does not occur

11 – TOXICOLOGICAL INFORMATION

Acute toxicity:
Eye Contact: Irritating to eyes
Skin Contact: May cause irritation
Ingestion: No hazard from product as supplied. Ingestion may cause irritation to mucous membranes.
Chronic toxicity: No known effect based on known information
Genetic toxicity: No known effect based on known information based on experimental/calculated data.
Aspiration Hazard: No aspiration hazard expected
Target Organ Effects: None known

12 – ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this has not been fully investigated.
Fish Acute: No data available regarding toxicity to fish Chronic: No data available regarding toxicity to fish
Aquatic invertebrates Acute: No data available regarding toxicity
Chronic: No data available regarding toxicity

SAFETY DATA SHEET

Hand Sanitizer

13- DISPOSAL CONSIDERATIONS

Waste Disposal Methods: This material, as supplied, is not a hazardous waste according to Federal Regulations (40 CFR Part 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 Part 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

14 – TRANSPORT INFORMATION

<u>DOT</u>	Hazard Class- ORM-D	Shipping Name- Consumer commodity
<u>TDG</u>	Hazard Class- 3	PIN- UN # 1170 (Alcohol Solution)
<u>MEX</u>	Hazard Class- ORM-D	Shipping Name- Consumer commodity
<u>ICAO</u>	Hazard Class- ORM-D ID 8000	Shipping Name- Consumer commodity
<u>IATA</u>	Hazard Class- ORM-D ID 8000	Shipping Name- Consumer commodity
<u>IMDG/IMO</u>	Hazard Class- ORM-D	Shipping Name- Consumer commodity

15- REGULATORY INFORMATION

International Inventories:

TSCA: Complies
 DSL: Not determined
 EINECS: Complies

U.S. Federal Regulations:

SARA 313:

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372: **NONE**

Chemical Name	CAS No	Weight %	SARA 313 - Threshold Value %

SARA 311/312 Hazard Categories:

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to 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.

Hand Sanitizer

16 – OTHER INFORMATION

All the information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by APOLLO as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does APOLLO assume any liability arising out of use by others or the product referred to herein. The information herein is not to be construed as absolutely complete since additional information may be necessary or described when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.

Prepared by:

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Fax: (416) 758-3701
E-Mail: dsanderson@apollocorp.com



The Clorox Company
 1221 Broadway
 Oakland, CA 94612
 Tel. (510) 271-7000

Material Safety Data Sheet

I Product:	CLOROX® DISINFECTING WIPES	
Description:	FRAGRANCED, MOISTENED TOWELETTE	
Other Designations	Distributor	Emergency Telephone Nos.
EPA Reg. No. 5813-58	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300

II Health Hazard Data	III Hazardous Ingredients														
<p><u>Eye Contact:</u> Can cause moderate eye irritation.</p> <p><u>Ingestion:</u> Liquid should be practically non-toxic if ingested.</p> <p><u>Skin Contact:</u> Prolonged skin contact may produce minor irritation.</p> <p>FIRST AID: EYES- Flush with plenty of water. Call a physician if irritation persists. IF SWALLOWED- Drink a glassful of water. Call a physician or poison control center. SKIN- Wash thoroughly with soap and water after handling. INHALATION- If breathing is affected, move to fresh air.</p> <p>Under normal consumer use conditions the likelihood of any adverse health effects are low.</p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride</td> <td>0.145%</td> <td>Not established</td> </tr> <tr> <td>n-Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride</td> <td>0.145%</td> <td>Not established</td> </tr> <tr> <td>Isopropanol CAS #67-63-0</td> <td>1- 5%</td> <td>400 ppm/500 ppm¹ 400 ppm²</td> </tr> </tbody> </table> <p>¹1998 ACGIH, TLV-TWA/STEL TLV-TWA- Threshold Limit Value-Time Weighted Average. STEL- Short Term Exposure Limit ²PEL- OSHA Permissible Exposure Limit</p> <p>None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride	0.145%	Not established	n-Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride	0.145%	Not established	Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm ¹ 400 ppm ²		
Ingredient	Concentration	Worker Exposure Limit													
n-Alkyl (C14, 60%; C16, 30% C12, 5%; C18, 5%) dimethylbenzyl ammonium chloride	0.145%	Not established													
n-Alkyl (C12, 68%, C14, 32%) Dimethyl Ethylbenzyl ammonium chloride	0.145%	Not established													
Isopropanol CAS #67-63-0	1- 5%	400 ppm/500 ppm ¹ 400 ppm ²													

IV Special Protection and Precautions	V Transportation and Regulatory Data
<p>No special protection or precautions have been identified for using this product under directed consumer use conditions.</p> <p>The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale or prolonged exposure.</p> <p><u>Hygienic Practices:</u> Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods.</p> <p><u>Engineering Controls:</u> Use general ventilation to minimize exposure to vapor or mist.</p> <p><u>Work Practices:</u> Avoid eye and skin contact and inhalation of vapor or mist. Avoid contact with food. Not for personal cleansing.</p> <p>KEEP OUT OF THE REACH OF CHILDREN</p>	<p><u>U.S. DOT, IATA, IMG Hazard Class:</u> Not restricted.</p> <p><u>U.S. DOT Proper Shipping Name:</u> None</p> <p><u>EPA- SARA Title III/CERCLA:</u> Product may be regulated under Sections 311/312. This product contains no chemicals regulated under Section 304/CERCLA or Section 313.</p> <p><u>TSCA/DSL:</u> All chemicals in this product are listed on the TSCA Inventory. The DSL status for some components has not been determined.</p>

VI Spill Procedures/Waste Disposal	VII Reactivity Data
<p><u>Spill Procedures:</u> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.</p> <p><u>Waste Disposal:</u> Disposal must be made in accordance with applicable federal, state and local regulations.</p>	<p><u>Stability:</u> Mixing with sodium hypochlorite may release small amounts of formaldehyde gas.</p> <p><u>Storage/Disposal:</u> Do not use or store near heat or open flame.</p>

VIII Fire and Explosion Data	IX Physical Data
<p>Flashpoint: >119°F Method: Closed cup. Unusual Fire and Explosion Hazards: None</p>	<p>Flashpoint..... >119°F Specific Gravity..... 0.99 g/cc. pH..... 5.0-6.0 Solubility in Water..... Liquid is completely dispersible</p>

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 DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH DATE PREPARED 7/06

DOD Hazardous Material Information (ANSI Format)

DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

The information in this document is compiled from information maintained by the United States Department of Defense (DOD). Anyone using this information is solely responsible for the accuracy and applicability of this information to a particular use or situation.

Cornell University does not in any way warrant or imply the applicability, viability or use of this information to any person or for use in any situation.

Section 1 - Product and Company Identification DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Product Identification: DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Date of MSDS: 11/01/1985 **Technical Review Date:** 12/06/1998

FSC: 6850 **NIIN:** 00-685-4763

Submitter: N EN

Status Code: C

MFN: 01

Article: N

Kit Part: N

Manufacturer's Information

Manufacturer's Name: DRACKETT PRODUCTS COMPANY
Manufacturer's Address1: 5020 SPRING GROVE AVENUE
Manufacturer's Address2: CINCINNATI, OH 45232-1988
Manufacturer's Country: NK
General Information Telephone:
Emergency Telephone: 513-632-1500
Emergency Telephone: 513-632-1500
MSDS Preparer's Name: N/P
Proprietary: N
Reviewed: Y
Published: Y
CAGE: DRACK
Special Project Code: N

Item Description

Item Name: CLEANING COMPOUND,ALKALI,PIPELINE
Item Manager: GSA
Specification Number: A-A-1911
Type/Grade/Class: NONE
Unit of Issue: CN **Quantitative Expression:** 00000000012OZ
Unit of Issue Quantity: 1
Type of Container: CAN

Contractor Information

Contractor's Name: DRACKETT CO
Contractor's Address1: 5020 SPRING GROVE AVE
Contractor's Address2: CINCINNATI, OH 45232-1926
Contractor's Telephone: 513-632-7409
Contractor's CAGE: 85234

Contractor Information

Contractor's Name: DRACKETT PRODUCTS CO
Post Office Box: N/K
Contractor's Address1: 5020 SPRING GROVE AVE
Contractor's Address2: CINCINNATI, OH 45232-1988
Contractor's Telephone: 513-632-1500
Contractor's CAGE: DRACK

Section 2 - Composition/Information on Ingredients
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Ingredient Name: SODIUM HYDROXIDE (SARA III)
Ingredient CAS Number: 1310-73-2 **Ingredient CAS Code:** M
RTECS Number: WB4900000 **RTECS Code:** M
=WT: =WT Code:
=Volume: =Volume Code:

>WT: >WT Code:
>Volume: >Volume Code:
<WT: <WT Code:
<Volume: <Volume Code:
% Low WT: % Low WT Code:
% High WT: % High WT Code:
% Low Volume: % Low Volume Code:
% High Volume: % High Volume Code:
% Text: N/K
% Environmental Weight:
Other REC Limits: N/K (FP N/ORNL)
OSHA PEL: 2 MG/M3 OSHA PEL Code: M
OSHA STEL: OSHA STEL Code:
ACGIH TLV: C 2 MG/M3; 9293 ACGIH TLV Code: M
ACGIH STEL: N/P ACGIH STEL Code:
EPA Reporting Quantity: 1000 LBS
DOT Reporting Quantity: 1000 LBS
Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Health Hazards Acute & Chronic: SEE SIGNS & SYMPTOMS OF OVEREXP.

Signs & Symptoms of Overexposure:

INHAL:N/K (FP N/ORNL).SKIN & EYES:SEVERE BURNS,POSSIBLE
BLINDNESS.INGEST:MAY BE FATAL OR CAUSE PERMANENT DAMAGE.

Medical Conditions Aggravated by Exposure:

N/K (FP N/ORNL)

LD50 LC50 Mixture: N/K (FP N/ORNL)

Route of Entry Indicators:

Inhalation: N/P

Skin: N/P

Ingestion: N/P

Carcenogenicity Indicators

NTP: NO

IARC: NO

OSHA: NO

Carcinogenicity Explanation: NONE

Section 4 - First Aid Measures DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

First Aid:

INHAL:REMOVE TO FRESH AIR.SUPPORT BREATHING (GIVE O*2/ARTF RESP) (FP

N).SKIN:REMOVE AFFECTED CLOTHING,FLUSH WITH WATER FOR AT LEAST 15 MINUTES.GET MD ATTN IMMED.EYES:RINSE IMMED W/ WATER FOR AT LEAST 15 MINUTES;REMOVE CONTACTS & WASH W/ WATER FOR AT LEAST 20 MIN.GET MD ATTN IMMED.INGEST:RAPIDLY RINSE MOUTH,THEN IMMED DRINK GLASS OF WATER OR MILK.DO NOT INDUCE VOMITING.GET MD ATTN IMMED.

Section 5 - Fire Fighting Measures
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Fire Fighting Procedures:

USE NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N).

Unusual Fire or Explosion Hazard:

CAUSTIC VAPORS RELEASED WHEN WET.

Extinguishing Media:

DRY CHEMICAL,CARBON DIOXIDE.

Flash Point: Flash Point Text: N/A

Autoignition Temperature:

Autoignition Temperature Text: N/A

Lower Limit(s): N/A

Upper Limit(s): N/A

Section 6 - Accidental Release Measures
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Spill Release Procedures:

SWEEP UP MATERIAL & COLLECT.

Section 7 - Handling and Storage
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Respiratory Protection:

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N).

Ventilation:

LOCAL AND GENERAL VENTILATION NECESSARY TO KEEP AIR CONCENTRATION BELOW TLV (FP N/ORNL).

Protective Gloves:

RUBBER (IF CONTAINER OPEN).

Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).

Other Protective Equipment: APRON &/OR PROTECTIVE IMPERVIOUS CLOTHING IF CONTAINER OPEN.

Work Hygienic Practices: N/K (FP N/ORNL)

Supplemental Health & Safety Information: N/K (FP N/ORNL)

Section 9 - Physical & Chemical Properties
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

HCC: B1

NRC/State License Number:

Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: N/A

Melting/Freezing Point: Melting/Freezing Text: N/K (FP N)

Decomposition Point: Decomposition Text: N/K (FP N)

Vapor Pressure: N/A Vapor Density: N/A

Percent Volatile Organic Content:

Specific Gravity: N/A

Volatile Organic Content Pounds per Gallon:

pH: N/K

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: N/A

Solubility in Water: 50%

Appearance and Odor: GREEN GRANULAR W/ ALUMINUM CHIPS,NO ODOR.

Percent Volatiles by Volume: N/A

Corrosion Rate: N/K

Section 10 - Stability & Reactivity Data
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Stability Indicator: YES

Materials to Avoid:

N/A

Stability Condition to Avoid:

DAMP OR WET STORAGE CONDITIONS.

Hazardous Decomposition Products:

CAUSTIC VAPORS.

Hazardous Polymerization Indicator: N/P

Conditions to Avoid Polymerization:

N/K (FP N/ORNL)

Section 11 - Toxicological Information
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Toxicological Information:

N/P

Section 12 - Ecological Information
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Ecological Information:

N/P

Section 13 - Disposal Considerations
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Waste Disposal Methods:

DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS (FP N).

Section 14 - MSDS Transport Information
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Transport Information:

N/P

Section 15 - Regulatory Information
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information
DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

Other Information:

N/P

HMIS Transportation Information

Product Identification: DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER**Transportation ID Number:** 82356**Responsible Party CAGE:** DRACK**Date MSDS Prepared:** 11/01/1985**Date MSDS Reviewed:** 07/19/1988**MFN:** 07/19/1988**Submitter:** N TN**Status Code:** C**Container Information****Unit of Issue:** CN**Container Quantity:** 1**Type of Container:** CAN**Net Unit Weight:****Article without MSDS:** N**Technical Entry NOS Shipping Number:****Radioactivity:****Form:****Net Explosive Weight:****Coast Guard Ammunition Code:****Magnetism:** N/P**AF MMAC Code:****DOD Exemption Number:** N/R

Limited Quantity Indicator:
Multiple Kit Number: 0
Kit Indicator: N
Kit Part Indicator: N
Review Indicator: Y
Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: SODIUM HYDROXIDE, SOLID
DOT PSN Code: NGU
Symbols:
DOT PSN Modifier:
Hazard Class: 8
UN ID Number: UN1823
DOT Packaging Group: II
Label: CORROSIVE
Special Provision(s):
Packaging Exception: 154
Non Bulk Packaging: 212
Bulk Packaging: 240
Maximum Quantity in Passenger Area: 15 KG
Maximum Quantity in Cargo Area: 50 KG
Stow in Vessel Requirements: A
Requirements Water/Sp/Other:

IMO Detail Information

IMO Proper Shipping Name: SODIUM HYDROXIDE, SOLID
IMO PSN Code: NSX
IMO PSN Modifier:
IMDG Page Number: 8225-1
UN Number: 1823
UN Hazard Class: 8
IMO Packaging Group: II
Subsidiary Risk Label: -
EMS Number: 8-06
Medical First Aid Guide Number: 705

IATA Detail Information

IATA Proper Shipping Name: SODIUM HYDROXIDE, SOLID
IATA PSN Code: WSO
IATA PSN Modifier:
IATA UN Id Number: 1823
IATA UN Class: 8
Subsidiary Risk Class:
UN Packaging Group: II
IATA Label: CORROSIVE
Packaging Note for Passengers: 814
Maximum Quantity for Passengers: 15KG
Packaging Note for Cargo: 816
Maximum Quantity for Cargo: 50KG
Exceptions:

AFI Detail Information

AFI Proper Shipping Name: SODIUM HYDROXIDE, SOLID

AFI Symbols:

AFI PSN Code: WSO

AFI PSN Modifier:

AFI UN Id Number: UN1823

AFI Hazard Class: 8

AFI Packing Group: II

AFI Label:

Special Provisions: P5

Back Pack Reference: A12.4

HAZCOM Label Information

Product Identification: DRANO (CRYSTAL) ALL-PURPOSE DRAIN OPENER

CAGE: DRACK

Assigned Individual: N

Company Name: DRACKETT PRODUCTS CO

Company PO Box: N/K

Company Street Address1: 5020 SPRING GROVE AVE

Company Street Address2: CINCINNATI, OH 45232-1988 US

Health Emergency Telephone:

Label Required Indicator: Y

Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number:

Date of Label: 12/16/1998

Year Procured: N/K

Organization Code: F

Chronic Hazard Indicator: N/P

Eye Protection Indicator: N/P

Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P

Health Hazard:

Contact Hazard:

Fire Hazard:

Reactivity Hazard:

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.

Hazards not otherwise classified : 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.

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** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- 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** : 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 monoxide

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.

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 non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for 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** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store 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

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 side-shields.
- 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

Appearance

- Physical state** : Liquid.
- Color** : Clear.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : Not available.
- Flash point** : Not available.
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** : Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- SADT** : Not available.
- Viscosity** : Not available.

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 effects : Not available.

Potential delayed effects : Not available.

Section 11. Toxicological information

Long term exposure

Potential immediate effects : Not available.

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	LogP _{ow}	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.

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	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	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

Date of issue/Date of revision : 8/5/2015

Date of previous issue : No previous validation

Version : 1

Prepared by : Product Safety.

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.



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

MSDS #: RQ0901614

Issue Date: February 2009

Supersedes: RQ0809933
RQ0809933

Issue Date: July 2008

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

Ingredients/Chemical Name: 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:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethanol	Alcohol	64-17-5	3-7%	7.06 g/kg rat, oral

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 or 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 Although 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: CO₂, 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.

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 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).

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape):

Clear liquid.

Flash Point (Method Used): 125-140°F (cc)/ 51.66- 60°C.
Although 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

Odor Threshold: N/A

Physical State: liquid

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Boiling Point: 212°F / ~100°C

Partition Coefficient (n-octanol/water): N/A

Solubility in Water: Soluble

Decomposition Temperature: N/A

Evaporation Rate (nBuOAc=1): N/K

Specific Gravity/Density (H₂O=1): ~ 1.0

Melting/Freezing Point: N/A

Reserve Alkalinity: 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.

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:

Ingredient	CAS#	Level	States					CERCLA RQ
Ethanol	64-17-5	1-5%	IL	MA	NJ	PA	RI	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.

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:	2	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

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.



SECTION 1: COMPANY AND PRODUCT IDENTIFICATION

Fellowes, Inc.
1789 Norwood Avenue
Itasca, IL 60143-1095
USA
Telephone: 630.893.1600
Fax: 630.893.1648
Toll Free: 800.945.4545

Product Name: 35250 Fellowes Powershred Shredder Lubricant
Description: Lubricant

SECTION 2: HAZARD IDENTIFICATION

Inhalation: May cause slight irritation.
Eyes: May cause slight irritation.
Skin: May cause slight irritation.
Ingestion: May cause gastrointestinal discomfort.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name:</u>	<u>CAS No.</u>	<u>EINECS No.</u>	<u>Maximum Weight :</u>
Canola Oil	120962-03-0		>99%

SECTION 4: FIRST AID MEASURES

Inhalation: Move to fresh air.
Eyes: Flush with water.
Skin: Wash with soap and water.
Ingestion: Do not induce vomiting. Seek medical attention.

SECTION 5: FIREFIGHTING MEASURES

Flash Point: >500F (260C) Closed Cup
Flammability Limits in Air by volume: **Lower:** Not explosive **Upper:** Not explosive
Extinguishing Media: Do not use water jet. Use dry chemical, halon, carbon dioxide, water spray, fog, or foam.
Special Firefighting Measures: None
Unusual Hazards: None



SECTION 6: ACCIDENTAL RELEASE MEASURES

Use absorbent material and dispose of appropriately. For large spills, keep product out of sewers and advise authorities if product has entered sewers. Surfaces may become slippery after spillage.

SECTION 7: HANDLING AND STORAGE

Handling: Keep away from heat and sources of ignition.
Storage: Do not store near heat or flame. Store away from strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes and Face: None necessary when product is used as intended.
Clothing: No special protective clothing when used as intended.
Respiratory: None necessary when product is used as intended.
Ventilation: Normal ventilation is adequate.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: >575F
Evaporation Rate: Not available
Specific Gravity: 0.92 g/ml (7.67 lb/gal) @ 25C
Solubility in Water: Not soluble
Appearance/Odor: Yellow to amber liquid; faint fatty odor.

SECTION 10: STABILITY AND REACTIVITY

Stable: Stable under normal conditions.
Conditions to Avoid: Keep away from heat and open flame. Avoid strong oxidizing agents.
Chemical Incompatibility: Strong oxidizers
Hazardous Decomposition: Combustion produces carbon monoxide, carbon dioxide, along with thick smoke.
Polymerization: Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Not listed on NTP, OSHA, or IARC.



SECTION 12: ECOLOGICAL INFORMATION

This product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose in accordance with Federal, State, and Local Regulations.

Additional Information: "Empty" containers should be completely drained.

SECTION 14: TRANSPORT INFORMATION

DOT: Not regulated as a hazardous material.

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

SECTION 15: REGULATORY INFORMATION

United States: The components used in this product are listed on the Toxic Substances Control Act.

Canada: All components are listed on the Canadian DSL.

EU: Currently not classified according to EEC Directives.


Additional: None

SECTION 16: OTHER INFORMATION

According to 29 CFR 1910.1200(b)(6)(ix) of the Code of Federal Regulations, amended July 1, 2007, the Fellowes product described in this Material Safety Data Sheet is exempt from the Hazard Communication Standard. The information contained in this MSDS is not meant to imply that this Fellowes product is covered by the OSHA Hazard Communication Standard nor meant to comply with the OSHA Hazard Communication Standard.

HMIS RATING	
Health	0
Flammability	1
Physical Hazard	0
Personal Protection	N/A

February 10, 2012

	<p align="center">MSDS General Disinfectant / Sanitizer Wipes GPD #02181MA036 Version: 1.0 Replaces: N/A</p>	<p align="center">CONFIDENTIAL Page 1 of 5 Effective Date: 5/18/2011 Review Date: 5/18/2013</p>
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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 Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072
IDENTITY (As used on label and list) FRESH / LEMON GENERAL DISINFECTANT / SANITIZER WIPES Formulation Part #: 1100040100	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Product Label:	
Section 1	
Manufacture's Name ROCKLINE INDUSTRIES	Emergency Telephone Number 1 (800) 424-9300 or for international shipments 1 (703) 527-3887 (call collect)
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information 1 (800) 558-7790
1113 MARYLAND AVE	Date Prepared 8/3/07
SHEBOYGAN, WI 53082	Signature of Preparer (optional)

Section 2

HAZARDS IDENTIFICATION

Emergency Overview

Towelette impregnated with clear liquid, May cause irritation to eyes and skin.

Health Effects: Eyes

This product may cause irritation to the eyes.

Health Effects: Skin


This product may cause irritation to the skin.

Health Effects: Inhalation

Exposure via inhalation not likely. High vapor or aerosol mist concentrations may be irritating to the nose, throat and upper respiratory tract.

Health Effects: Ingestion

Ingestion may cause transient irritation of throat, stomach and gastrointestinal tract ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

	<p align="center">MSDS General Disinfectant / Sanitizer Wipes RL #0238MA036 Version: 1.0 Replaces: N/A</p>	<p align="center">CONFIDENTIAL Page 2 of 5 Effective Date: 10/7/10 Review Date: 10/7/12</p>
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Section 3

COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	C M Number	Percent
<u>Alkyl dimethyl benzyl ammonium chloride (C12-18)</u>	68391-01-5	0.14 %
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alt CAS 68956-79-6)	85409-23-0	0.14 %

Section 4

FIRST AID MEASURES

Eyes

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If irritation persists get medical attention.

Skin

Immediately take off all contaminated clothing. Wash contaminated clothing before reuse. For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

Inhalation

Inhalation exposure unlikely. If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion

If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting.

Section 5

FIRE FIGHTING MEASURES

Flash Point:: (> 93.9 °C), > 201 °F PMCC

Extinguishing Media


Use appropriate methods for combating the surrounding fire.

Section 6

ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES

Emergency Action:

	<p align="center">MSDS General Disinfectant / Sanitizer Wipes RL #0238MA036 Version: 1.0 Replaces: N/A</p>	<p align="center">CONFIDENTIAL Page 3 of 5 Effective Date: 10/7/10 Review Date: 10/7/12</p>
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Isolate spill or leak area immediately. Keep unauthorized personnel away. Ventilate enclosed areas.

Wear appropriate personal protective equipment during cleanup. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. With clean shovel place material into clean, dry container; move containers from spill area.

Section 7

HANDLING & STORAGE

Handling Procedures

Avoid contact with skin and eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

Storage Procedures

Store in a cool, dry, well-ventilated area. Avoid freezing or excessive heat.
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Section 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Use with adequate ventilation.

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles (if splashing is possible).

Personal Protective Equipment: Skin

Wear suitable protective clothing. Wear impervious gloves for prolonged contact.

Personal Protective Equipment: Respiratory

Under normal conditions, respirator is not normally required. If vapors are present or irritation is experienced, NIOSH approved respiratory protection for organic vapors should be worn.


Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

Section 9

PHYSICAL & CHEMICAL PROPERTIES

Flash Point: (> 93.9 °C), > 201 °F PMCC
Specific Gravity: (1.007 g/ml), 8.38 lb/gal @ 25 C
Vapor Density: Heavier Than air
pH Value: 11.76 (As is)

	<p align="center">MSDS General Disinfectant / Sanitizer Wipes RL #0238MA036 Version: 1.0 Replaces: N/A</p>	<p align="center">CONFIDENTIAL Page 4 of 5 Effective Date: 10/7/10 Review Date: 10/7/12</p>
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Appearance and Odor

Towelette impregnated with clear liquid.

Section 10

STABILITY & REACTIVITY

Chemical Stability

Stable under normal conditions.

Incompatibility

This product is incompatible with oxidizing agents,

Hazardous Decomposition

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

Section 11

TOXICOLOGICAL INFORMATION

Carcinogenicity

Not listed as carcinogenic according to IARC, NTP or OSHA.

Section 12

ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to fish. Toxic to aquatic organisms.

Section 13

DISPOSAL CONSIDERATIONS


Disposal Instructions

For containers 1 gallon or less: Do not reuse empty container (bottle, can, bucket). Wrap container and put in trash.

Section 14

TRANSPORT INFORMATION

DOT Proper Shipping Name Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

	MSDS General Disinfectant / Sanitizer Wipes RL #0238MA036 Version: 1.0 Replaces: N/A	CONFIDENTIAL Page 5 of 5 Effective Date: 10/7/10 Review Date: 10/7/12

Section 15

REGULATORY INFORMATION

Ingredient Name	CAS Number	Percent
Alkyl dimethyl benzyl ammonium chloride (C12-18)	68391-01-5	0.14 %
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride (Alt CAS# 68956-79-6)	85409-23-0	0.14 %

Inventories

This product is considered a pesticide, and is therefore excluded from the United States TSCA Regulations.

There is no calculable reportable quantity (RQ) for this product.

Section 16

OTHER INFORMATION

Disclaimer

This data is offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

HAZARD RATINGS	HMIS	NFPA
Health	1	1
Flammability	1	1
Reactivity	0	0
PPE	X	

Material Safety Data Sheet



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Vi-Jon Incorporated
8515 Page Avenue
Saint Louis, MO 63114

Phone: 314-427-1000
In Case of Spill Emergency Contact:
Chemtrec: 1-800-424-9300

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 components that are considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

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 experienced, 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.

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 (K_{ow}): (Ethyl Alcohol): - 0.32

Auto-ignition temperature: (Ethyl Alcohol) 363°C

Decomposition temperature: Not Available

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.

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

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.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY OTHER NATURE, ARE MADE BY VI-JON HEREUNDER WITH RESPECT TO INFORMATION OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

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.



SAFETY DATA SHEET

Issuing Date 20-Nov-2013

Revision Date 20-Dec-2016

Revision Number 1

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

GHS product identifier

Product Name Lock-Ease

Other means of identification

Product Code(s) LE-4, LE-4BK, LEC-4, LEK-4, LEK-4C

UN-Number UN1268

Synonyms Graphited Lock Fluid

Recommended use of the chemical and restrictions on use

Recommended Use All types of locks, household appliances, tools, guns, reels and other mechanisms.

Uses advised against No information available

Supplier's details

Supplier Address

AGS Company
P.O. Box 729
Muskegon, MI
49443
TEL: 800-253-0403

Emergency telephone number

Emergency Telephone Number 800-255-3924

2. HAZARDS IDENTIFICATION

Classification

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

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 2
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Specific Target Organ Toxicity (Repeated Exposure)	Category 1
Aspiration Toxicity	Category 1
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word
Danger
Hazard Statements

- Causes skin irritation
- Causes serious eye irritation
- May cause genetic defects
- Suspected of causing cancer
- May cause respiratory irritation. May cause drowsiness or dizziness
- Causes damage to organs through prolonged or repeated exposure
- May be fatal if swallowed and enters airways
-
- Flammable liquid and vapor.


Appearance Dark gray.

Physical State Liquid.

Odor Solvent.

Precautionary Statements
Prevention

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

General Advice

- If exposed or concerned: Get medical attention/advice

Eyes

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

Skin

- If skin irritation occurs: Get medical advice/attention.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Ingestion

- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- Do NOT induce vomiting.

Fire

- In case of fire: Use CO₂, dry chemical, or foam for extinction.

Storage

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

Disposal

- Dispose of contents/container to an approved waste disposal plant.

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

1% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms

Graphited Lock Fluid

Chemical Name	CAS-No	Weight %	Trade secret
Stoddard solvent	8052-41-3	60-100	*
Naphtha, petroleum, hydrodesulfurized heavy	64742-82-1	7-13	*
Graphite	7782-42-5	0.1-1	*
Aluminum iso-propoxide	555-31-7	0.1-1	*
Ethylbenzene	100-41-4	<0.2	*

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

4. FIRST AID MEASURES

Description of necessary first-aid measures**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention if irritation persists.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation persists. Wash contaminated clothing before reuse.

Inhalation

Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician. Aspiration into lungs can produce severe lung damage.

Ingestion

Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Aspiration hazard if swallowed - can enter lungs and cause damage. If vomiting occurs, lean victim forward to reduce the risk of aspiration.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary**Notes to Physician**

Aspiration hazard.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use: Carbon dioxide (CO₂). Dry chemical. Foam. Water spray.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Flammable. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

Yes.

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

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.

Environmental Precautions

Environmental Precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment

A vapor suppressing foam may be used to reduce vapors.

Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Non-sparking tools should be used. Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Use only in an area containing flame proof equipment. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid breathing vapors. Remove and wash contaminated clothing before re-use.

Conditions for safe storage, including any incompatibilities

Storage

Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

Incompatible Products

Strong acids. Strong bases. Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Stoddard solvent 8052-41-3	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m ³	IDLH: 20000 mg/m ³ Ceiling: 1800 mg/m ³ 15 min

		(vacated) TWA: 100 ppm (vacated) TWA: 525 mg/m ³	TWA: 350 mg/m ³
Graphite 7782-42-5	TWA: 2 mg/m ³ respirable particulate matter all forms except graphite fibers	TWA: 15 mg/m ³ total dust synthetic TWA: 5 mg/m ³ respirable fraction synthetic (vacated) TWA: 2.5 mg/m ³ respirable dust natural (vacated) TWA: 10 mg/m ³ total dust synthetic (vacated) TWA: 5 mg/m ³ respirable fraction synthetic TWA: 15 mppcf natural	IDLH: 1250 mg/m ³ TWA: 2.5 mg/m ³ natural respirable dust
Aluminum iso-propoxide 555-31-7	TWA: 1 mg/m ³ respirable particulate matter	-	-
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m ³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m ³	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m ³ STEL: 125 ppm STEL: 545 mg/m ³
Naphthalene 91-20-3	TWA: 10 ppm S*	TWA: 10 ppm TWA: 50 mg/m ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
Calcium hydroxide 1305-62-0	TWA: 5 mg/m ³	TWA: 15 mg/m ³ total dust TWA: 5 mg/m ³ respirable fraction (vacated) TWA: 5 mg/m ³ not in effect as a result of reconsideration	TWA: 5 mg/m ³
Toluene 108-88-3	TWA: 20 ppm	TWA: 200 ppm (vacated) TWA: 100 ppm (vacated) TWA: 375 mg/m ³ (vacated) STEL: 150 ppm (vacated) STEL: 560 mg/m ³ Ceiling: 300 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³
Benzene 71-43-2	STEL = 2.5 ppm TWA: 0.5 ppm S*	TWA: 1 ppm TWA: 10 ppm (vacated) TWA: 10 ppm (vacated) STEL: 50 ppm (vacated) Ceiling: 25 ppm Ceiling: 25 ppm STEL: 5 ppm	IDLH: 500 ppm TWA: 0.1 ppm STEL: 1 ppm

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.

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Showers. Eyewash stations. Explosion proof ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin and Body Protection

Wear protective gloves/clothing.

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. Provide regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid.	Appearance	Dark gray.
Odor	Solvent.	Odor Threshold	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>
pH	No data available	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	156-197 °C / 312-387 °F	None known
Flash Point	38 °C / 101 °F	None known
Evaporation rate	Slower than Butyl Acetate	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	1-5	None known
Vapor Density	Heavier than air	Air = 1
Specific Gravity	0.7963	None known
Water Solubility	Negligible	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Flammable liquid.

Explosive Properties No data available

Oxidizing Properties No data available

Other information

VOC Content (%) No data available

10. STABILITY AND REACTIVITY**Reactivity**

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes.
Skin Contact	Irritating to skin.
Ingestion	May be fatal if swallowed and enters airways.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphtha, petroleum, hydrodesulfurized heavy	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	-
Naphthalene	= 1110 mg/kg (Rat) = 490 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 340 mg/m ³ (Rat) 1 h

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Irritation
-----------------	------------

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	May cause genetic defects.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylbenzene	A3	Group 2B	-	-

ACGIH: (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Reproductive Toxicity	No information available.
STOT - single exposure	May cause respiratory irritation May cause drowsiness or dizziness
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration Hazard	May be fatal if swallowed and enters airways.

Numerical measures of toxicity - Product

Unknown acute toxicity 1% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 21739 mg/kg; Acute toxicity estimate

LD50 Dermal 21739 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Naphtha, petroleum, hydrodesulfurized heavy 64742-82-1				LC50 96 h: = 2.6 mg/L (Chaetogammarus marinus)
Palmitic acid 57-10-3		LC50 96 h: < 3000 mg/L semi-static (Brachydanio rerio) LC50 96 h: = 150 mg/L (Oryzias latipes) LC50 96 h:		

		= 54 mg/L semi-static (Brachydanio rerio)		
Stearic acid 57-11-4		LC50 96 h: < 3000 mg/L semi-static (Brachydanio rerio)		
Ethylbenzene 100-41-4	EC50 72 h: = 4.6 mg/L (Pseudokirchneriella subcapitata) EC50 96 h: > 438 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: 2.6 - 11.3 mg/L static (Pseudokirchneriella subcapitata) EC50 96 h: 1.7 - 7.6 mg/L static (Pseudokirchneriella subcapitata) EC50 72 h: = 11 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: 11.0 - 18.0 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 4.2 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: 7.55 - 11 mg/L flow-through (Pimephales promelas) LC50 96 h: = 32 mg/L static (Lepomis macrochirus) LC50 96 h: 9.1 - 15.6 mg/L static (Pimephales promelas) LC50 96 h: = 9.6 mg/L static (Poecilia reticulata)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	EC50 48 h: 1.8 - 2.4 mg/L (Daphnia magna)
Benzoic acid 65-85-0	EC50 3 h: = 5 mg/L (Anabaena inaequalis)	LC50 96 h: = 180 mg/L (Gambusia affinis)		EC50 24 h: = 300 mg/L (Daphnia magna) EC50 48 h: = 860 mg/L Static (Daphnia magna)
Naphthalene 91-20-3	EC50 72 h: = 0.4 mg/L (Skeletonema costatum)	LC50 96 h: 0.91 - 2.82 mg/L static (Oncorhynchus mykiss)		EC50 48 h: 1.09 - 3.4 mg/L Static (Daphnia magna) EC50 48 h: = 1.96 mg/L Flow through (Daphnia magna) LC50 48 h: = 2.16 mg/L (Daphnia magna)
Myristic acid 544-63-8		LC50 96 h: < 3000 mg/L semi-static (Brachydanio rerio) LC50 96 h: = 118 mg/L static (Oryzias latipes) LC50 96 h: = 38 mg/L semi-static (Brachydanio rerio) LC50 96 h: = 54 mg/L semi-static (Brachydanio rerio)		EC50 16 h: > 27 mg/L (Artemia salina)
Heptadecanoic acid 506-12-7		LC50 96 h: < 3000 mg/L semi-static (Brachydanio rerio)		
Petroleum distillates, hydrotreated middle 64742-46-7		LC50: 35 mg/L Pimephales promelas 96 h flow-through LC50: >10000 mg/L Pimephales promelas 96 h static		
Calcium hydroxide 1305-62-0		LC50 96 h: = 160 mg/L static (Gambusia affinis)		
Toluene 108-88-3	EC50: 12.5 mg/L Pseudokirchneriella subcapitata 72 h static	LC50: 96 h static <=10 mg/L (Rainbow trout)		LC50 48 h: 7.6 mg/L (Daphnia magna)
Benzene 71-43-2	EC50 72 h: = 29 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 5.3 mg/L flow-through (Oncorhynchus mykiss)		EC50 48 h: 8.76 - 15.6 mg/L Static (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulation No data is available on the product itself

Chemical Name	Log Pow
Ethylbenzene	3.2

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

US EPA Waste Number

D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethylbenzene - 100-41-4		Included in waste stream: F039		
Naphthalene - 91-20-3	U165	Included in waste streams: F024, F025, F034, F039, K001, K035, K060, K087, K145		U165
Toluene - 108-88-3	U220	Included in waste streams: F005, F024, F025, F039, K015, K036, K037, K149, K151		U220
Benzene - 71-43-2	waste number U019	Included in waste streams: F005, F024, F025, F037, F038, F039, K085, K104, K105, K141, K142, K143, K144, K145, K147, K151, K159, K169, K171, K172	= 0.5 mg/L regulatory level	U019

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT

UN-Number UN1268
Proper shipping name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Description UN1268, Petroleum distillates, n.o.s. (Stoddard Solvent), 3, III
Emergency Response Guide Number 128

TDG

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Description UN1268, Petroleum distillates, n.o.s. (Stoddard Solvent), 3, III

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Description UN1268, Petroleum distillates, n.o.s.(Stoddard Solvent), 3, III

ICAO

UN-Number UN1268
Proper shipping name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Description UN1268, Petroleum distillates, n.o.s.(Stoddard Solvent), 3, III

IATA

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
ERG Code 3L
Description UN1268, Petroleum distillates, n.o.s.,(Stoddard Solvent), 3, III

IMDG/IMO

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
EmS No. F-E, S-E
Description UN1268, Petroleum distillates, n.o.s., 3, III, (38°C c.c.)

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Classification Code F1
Description UN1268, Petroleum distillates, n.o.s.(Stoddard Solvent), 3, III

ADR

UN-Number UN1268
Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Classification Code F1
Tunnel Restriction Code (D/E)
Description UN1268, Petroleum distillates, n.o.s.(Stoddard Solvent), 3, III, (D/E)
ADR/RID-Labels 3

Proper Shipping Name Petroleum distillates, n.o.s.
Hazard Class 3
Packing Group III
Classification Code F1
Special Provisions 363
Description UN1268, Petroleum distillates, n.o.s.(Stoddard Solvent), 3, III
Limited Quantity 5 L
Ventilation VE01

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies

Legend

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ethylbenzene	100-41-4	0.2	0.1

SARA 311/312 Hazard Categories

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

Clean Water Act

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethylbenzene	1000 lb	X	X	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	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethylbenzene	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

U.S. State Regulations**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Ethylbenzene	100-41-4	Carcinogen
Naphthalene	91-20-3	Carcinogen
Toluene	108-88-3	Developmental
Benzene	71-43-2	Carcinogen Developmental Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Stoddard solvent	X	X	X		X
Petroleum distillates, hydrotreated heavy naphthenic				X	
Ethylbenzene	X	X	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 2	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1*	Flammability 2	Physical Hazard 0	Personal Protection X

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 20-Nov-2013

Revision Date 20-Dec-2016

Revision Note Change to composition.

General Disclaimer

The information provided on this SDS 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 Safety Data Sheet

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

1900 WILKINSON BLVD. CHARLOTTE, NC 28208 (704) 377-6555

POISON INFORMATION & EMERGENCY: 303-623-5716

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.

US DEPARTMENT OF LABOR

Occupational Safety and Health Administration.
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

SECTION I GENERAL INFORMATION

PRODUCT NAME LUB-E® SUPER LUBRICANT PENETRANT(AEROSOL)
PART NUMBER ACE 17312 .

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT%	C.A.S. NO.	TLV (ACGIH-XXX---OSHA-----)
Aliphatic Petroleum Distillate	85-90	8052-41-3	100 ppm (Air)
2-Butoxy-1-Ethanol*	1-2	111-76-2	25 ppm (Skin)
Naphtenic Petroleum Oil Mixture	8-9	64742-53-6/64742-52-5	5mg/m ³ (Mist)
Tertiary Amine	1-2	95-38-5	NDA
Carbon Dioxide (Propellant)	3-4	124-38-9	5000 ppm (Air)

* THIS CHEMICAL IS SUBJECT TO REPORTING REQUIREMENTS OF SECTION 313, SARA TITLE III

Comments: N. F. P. A. LEVEL 3 AEROSOL

Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1)	0.79	pH	N/A
Solubility in Water	Insoluble	Solubility in Solvent	Petroleum
Flash Point (Method) - F⁰	Greater than 100 ⁰ F (TCC)	% Volatiles By Wt.	Greater than 85%
Melting Point - F⁰	N/A	Boiling Point - F⁰	Greater than 300 ⁰
Vapor Pressure (mmHg)	N/A	Vapor Density (Air=1)	N/A
Evaporation Rate (Butyl Acetate=1)	N/A		
Appearance and Odor	Dark liquid with petroleum odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:	Caution: COMBUSTIBLE!		
Water Fog	Foam X	CO₂ X	Dry Chemical X

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Water spray to cool containers. Shield to protect from venting, rupturing or bursting cans.

UNUSUAL FIRE AND EXPLOSION HAZARDS At elevated temperatures, containers may vent, rupture or burst, even violently.

SECTION V REACTIVITY DATA

Stable XX	Unstable	Corrosive	NO	Hazardous Polymerization? Yes	No XX
Incompatibilities Oxidizing agents and acids.					
Hazardous Decomposition or Byproducts Fire: normal products of combustion, carbon monoxide, carbon dioxide, smoke and Nitrogen and Sulfur Oxides.					

SECTION VI HEALTH HAZARD INFORMATION

Recommended TLV of Product	5mg/m ³ (Mist) Naphtenic Petroleum Oil Mixture				
EYE CONTACT	Irritant. Can cause permanent damage with overexposure.	SKIN CONTACT	Irritant. Prolonged exposure can cause dryness, dermatitis.		
INHALATION	Excessive inhalation can cause respiratory and lung irritation. Narcosis.	INGESTION	HARMFUL OR FATAL IF SWALLOWED! Can cause gastric disturbance, nausea.		
OTHER Caution: CONTENTS UNDER PRESSURE!					

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	Flush with water for at least 15 minutes thoroughly, while lifting eyelids. Consult a physician immediately.				
SKIN CONTACT	Wash with soap and water thoroughly. Remove contaminated clothing and launder before re use.				
INHALATION	Move to fresh air. If breathing difficult, administer oxygen. If breathing has stopped, apply artificial respiration. Consult a physician.				
INGESTION	DO NOT INDUCE VOMITING! Get medical attention immediately! DO NOT ADMINISTER EPINEPHRINE OR ADRENALINE!				

SECTION VIII SPECIAL PROTECTION INFORMATION

	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	N/A	If TLV is exceeded, wear NIOSH approved
VENTILATION	Use with adequate ventilation	General.
EYE PROTECTION	N/A	Wear fully protective goggles or face shield
PROTECTIVE CLOTHING	N/A	Solvent resistant gloves and apron.

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Observing health hazards described above remove ignition sources, ventilate area. Confine spill, wipe up with rags, transfer to waste drum
WASTE DISPOSAL METHOD	<i>Dispose of in accordance with all applicable government laws and regulations.</i>
STORAGE AND HANDLING PRECAUTIONS	Store in a cool place away from oxidizers and acids. KEEP AWAY FROM OPEN FLAME AND SPARK!
OTHER PRECAUTIONS	WEARING CONTACT LENSES IS INADVISABLE! KEEP AWAY FROM CHILDREN AND ANIMALS! DO NOT PUNCTURE OR INCINERATE CONTAINERS!!

HAZARD INFORMATION LABEL DATA

HAZARD CODE

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Negligible

*pr=pressure

Supersedes

OSHA Revised NEW MAY 1997

Title H. ABRAMOWSKI-CHEMIST

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.

1. Product and Company Identification

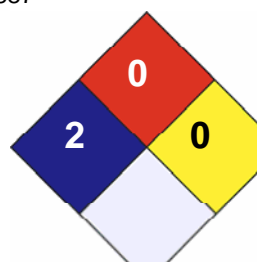
Product Name LYSOL® Antibacterial Kitchen Cleaner Trigger
CAS # Mixture
Product Use This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).
 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.

Product Use Disinfectant

Distributed by Reckitt Benckiser (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



2. Hazards Identification

Emergency Overview This product is regulated by Health Canada as a disinfectant. Extensive testing has been completed to show that it is safe and effective when used as directed.

CAUTION
EYE IRRITANT.
 DO NOT get in eyes. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Keep out of reach of children.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Irritating to eyes.
Skin None expected during normal conditions of use.
 Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Inhalation None expected during normal conditions of use.
Ingestion Health injuries are not known or expected under normal use.
Target organs Skin. Eyes.
Chronic effects The finished product is not expected to have chronic health effects.
Signs and symptoms Symptoms may include redness, oedema, drying, defatting and cracking of the skin.
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition/Information on Ingredients

Components	CAS #	Percent
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	Not applicable	0 - 0.1
N-Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	Not applicable	0 - 0.1

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, IMMEDIATELY flush eyes thoroughly with water. Remove any contact lenses and continue to flush eyes with water for at least 15 minutes. Get medical attention if irritation persists.
Skin contact	If on skin, wash area with plenty of soap and water. Get medical attention if irritation develops.
Inhalation	Remove to fresh air.
Ingestion	Call a physician or poison control centre immediately. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

Notes to physician

Treat patient symptomatically.

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	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
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 nitrogen. Oxides of carbon.
Explosion data	
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.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
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	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	Do not get in eyes, on skin or on clothing. Ensure adequate ventilation. Use personal protective equipment as required. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash thoroughly with soap and water after handling. Use only as directed on the container label.
Storage	Store in original container in a cool, secure area inaccessible to children and pets. Keep in properly labelled containers.

8. Exposure Controls/Personal Protection

Exposure limit values	Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.
Engineering controls	General ventilation normally adequate.
Personal protective equipment	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	Avoid contact with eyes. If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.
Hand protection	Emergency responders should wear full eye and face protection.
Skin and body protection	For sensitive skin or prolonged use, wear rubber gloves. Emergency responders should wear impermeable gloves.
Respiratory protection	As required by employer code. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible. Usual safety precautions while handling the product will provide adequate protection against injury or irritation.
General hygiene considerations	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. 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

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Clear
Form	Spray
Odour	Citrus
Odour threshold	Not available.
Physical state	Liquid.
pH	10.5 - 11.1
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation Rate	Not available
Flash point	> 93.30 °C (> 199.94 °F) Tagliabue
Auto-ignition temperature	Not available.
Flammability Limits in Air, Upper, % by Volume	Not available.
Flammability Limits in Air, Lower, % by Volume	Not available.
Vapour pressure	Not available.
Vapour density	Not available.

Specific gravity	1.0 (Water = 1)
Partition coefficient (n-octanol/water)	Not available.
Solubility (Water)	Complete
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	Reacts vigorously with acids.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	DO NOT MIX WITH BLEACH or use in conjunction with other household products. Excessive heat. Exposure to moisture.
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of nitrogen. Oxides of carbon.

11. Toxicological Information

Toxicological data

Components	Species	Test results
N-Alkyl (1% C8, 1% C10, 67% C12, 25% C14, 7% C16, 1% C18)	dimethyl benzyl ammonium chloride	(CAS Not applicable)

LC50

Not available.

LD50

Not available.

N-Alkyl (40% C12, 50% C14, 10% C16)	dimethyl benzyl ammonium chloride	(CAS Not applicable)
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LC50

Not available.

LD50

Not available.

Effects of acute exposure

Eye	Irritating to eyes.
Skin	None expected during normal conditions of use. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Inhalation	None expected during normal conditions of use.
Ingestion	Health injuries are not known or expected under normal use.
Sensitisation	Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.

Name of Toxicologically Synergistic Products	Not available.
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12. Ecological Information

Ecotoxicity	Not available.
Persistence and degradability	Not available.
Bioaccumulation/accumulation	Not available

Mobility in environmental media	Not available.
Environmental effects	Not available.
Aquatic toxicity	Not available.
Chemical fate information	Not available.

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Do not reuse empty container. Rinse container and offer for recycling where facilities exist.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

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 pollutant	Not applicable
EMS	Not 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

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.

Product Registration: Registered with TPD, DIN 02246379

WHMIS Classification Exempt - Registered product - (DIN 02246379)

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

*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 LYSOL® Antibacterial Kitchen Cleaner Trigger - Citrus, 650 mL - 0160711v1.0

Issue date 20 Aug 2013

Effective date 15 Aug 2013

Expiry Date 15 Aug 2016

Prepared by Reckitt Benckiser Regulatory Department Phone: 800-333-3899

Other Information For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

1. Product and Company Identification

Product name LYSOL® Brand (Kills 99.9% of Bacteria) Neutra Air Sanitizing Spray – 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).

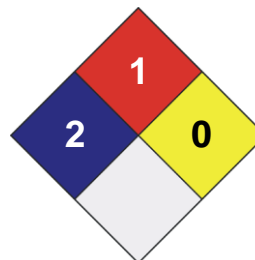
This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use Fragrance

Distribuido por 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



2. Hazards Identification

Emergency overview This product is regulated by the US EPA as a disinfectant.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
 CAUTION

DO NOT spray directly in eyes.

PHYSICAL HAZARDS: CONTENTS UNDER PRESSURE.

Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

KEEP OUT OF REACH OF CHILDREN AND PETS.

Potential short term health effects

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

Eyes Moderate eye irritation.

Skin Moderate skin irritation

Inhalation Avoid breathing vapors. May cause irritation of respiratory tract.

Ingestion Harmful if swallowed.

Target organs Eyes. Skin. Respiratory system.

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

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin. 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 See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Butane	106-97-8	10 - 20
Ethanol	64-17-5	10 - 20
Propane	74-98-6	2.5 - 10
Triethylene glycol	112-27-6	2.5 - 10
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium saccharinate	Not Applicable	0 - 0.1

4. First Aid Measures

First aid procedures

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.

Skin contact

Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use. Get medical attention immediately if symptoms occur.

Inhalation

Move to fresh air.

Ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Call a physician or poison control center immediately.

Notes to physician

Treat patient symptomatically.

General advice

Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. 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.

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.

5. Fire Fighting Measures

Flammable properties

Flammable Aerosol.

NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B

Extinguishing media**Suitable extinguishing media**

Treat for surrounding material.

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 and precautions 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**Sensitivity to mechanical impact**

Not available.

Sensitivity to static discharge

Not available.

6. Accidental Release Measures

Personal precautions

Ensure adequate ventilation. 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.

Environmental precautions	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area).
Methods for cleaning up	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.

7. Handling and Storage

Handling	<p>Ensure adequate ventilation. Read and follow product label instructions.</p> <p>Do not use on polished wood, painted surfaces, leather, rayon fabrics, or acrylic plastics. Does not harm most bathroom surfaces. For other surfaces, spot test in an inconspicuous area. Do not use on utensils, glasses and dishes. Spray may leave hard floors slippery. Do not concentrate spray over hard floors.</p> <p>Do not puncture or incinerate container. Avoid contact with eyes, skin or clothing. Avoid prolonged breathing of vapors. When using do not eat or drink. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling.</p>
Storage	<p>Store in original container in areas inaccessible to small children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, open flames or other sources of ignition. Keep out of reach of children.</p> <p>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.</p> <p>It is a violation of Federal law to use this product in a manner inconsistent with its labeling.</p>

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethanol (CAS 64-17-5)	STEL	1000 ppm

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

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900 mg/m ³ 1000 ppm
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Engineering controls Ensure adequate ventilation.

Personal protective equipment

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 Wear eye/face protection. Safety glasses with side-shields. Emergency responders should wear full eye and face protection.

Hand protection Protective gloves are recommended for prolonged or repeated exposure. Emergency responders should wear impermeable gloves.

Skin and body protection	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.
Respiratory protection	Not normally required if good ventilation is maintained and exposure guidelines are not exceeded. 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	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance	Clear
Color	Light yellow
Form	Aerosol.
Odor	Various
Odor threshold	Not available.
Physical state	Gas.
pH	Not available.
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	> 199.94 °F (> 93.30 °C)
Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Specific gravity	1.0-1.2 @ 25°C
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Complete
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong acids. May react with strong bases or oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Exposure to moisture. Do not mix with other chemicals. 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.
Incompatible materials	Caustics. Acids. Oxidizers.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Alkyl (50% C14, 40% C12, 10% C16) dimethyl benzyl ammonium saccharinate (CAS Not Applicable)		
LC50		
Not available.		
LD50		
Not available.		
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	680 mg/l, 2 Hours
	Rat	658 mg/l/4h
LD50		
Not available.		
Ethanol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
<i>Oral</i>		
LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
		6200 mg/kg
Propane (CAS 74-98-6)		
Acute		
<i>Inhalation</i>		
LC50	Rat	> 1442.8 mg/l, 15 Minutes
LD50		
Not available.		
Triethylene glycol (CAS 112-27-6)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	22460 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 3.9 mg/l, 4 Hours
<i>Oral</i>		
LD50	Guinea pig	7900 mg/kg
	Mouse	21000 mg/kg
	Rabbit	8400 mg/kg
	Rat	12800 mg/kg
Effects of acute exposure		
Eye contact	Moderate eye irritation.	
Skin contact	Moderate skin irritation	

Inhalation	Avoid breathing vapors. May cause irritation of respiratory tract.
Ingestion	Harmful if swallowed.
Sensitization	May cause allergic reactions in some individuals.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information

Ecotoxicity See below

Ecotoxicological data

Components

Ethanol (CAS 64-17-5)

Aquatic

		Species	Test Results
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours
		Water flea (Daphnia magna)	7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours

Triethylene glycol (CAS 112-27-6)

Aquatic

Crustacea	EC50	Daphnia	42426 mg/L, 48 Hours
		Water flea (Daphnia magna)	48.9 - 56 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 10000 mg/l, 96 hours

Persistence and degradability Not available.

Bioaccumulation / Accumulation Not available

Mobility in environmental media Not available.

Environmental effects Not available.

Aquatic toxicity Not available.

Partition coefficient

Butane	2.89
Ethanol	-0.31
Propane	2.36

Chemical fate information Not available.

13. Disposal Considerations

Disposal instructions Non-refillable container. Do not reuse or refill this container. Wrap container and put in trash or offer recycling if available. Dispose in accordance with all applicable regulations.

Waste from residues / unused products Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN1950, Aerosols, Class 2.1, Re-Classed as Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN1950, AEROSOLS, Class 2.1, Re-Classed as Limited Quantity

IATA/ICAO (Air)

UN1950, Aerosols, Flammable, Limited Quantity or Consumer Commodity, ID8000 if acceptable to airline

IMDG (Marine Transport)

UN1950, AEROSOLS, Class 2.1, Limited Quantity

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 Yes
hazardous chemical

US federal regulations

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

EPA Registration No. - 777-101

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Butane (CAS 106-97-8) Listed.

Ethanol (CAS 64-17-5) Listed.

Propane (CAS 74-98-6) Listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

Ethanol (CAS 64-17-5) Listed.

Triethylene glycol (CAS 112-27-6) Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Butane (CAS 106-97-8) Regulated flammable substance.

Propane (CAS 74-98-6) Regulated flammable substance.

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

Butane (CAS 106-97-8) 10000 lbs

Propane (CAS 74-98-6) 10000 lbs

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

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

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

Not regulated.

US CAA Section 612 SNAP Program: Listed substance

Butane (CAS 106-97-8) Listed.

Propane (CAS 74-98-6) Listed.

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

State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

US - California Hazardous Substances (Director's): Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.

US - Illinois Chemical Safety Act: Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Louisiana Spill Reporting: Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Minnesota Haz Subs: Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.
Triethylene glycol (CAS 112-27-6)	Listed.

US - New Jersey RTK - Substances: Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US - Texas Effects Screening Levels: Listed substance

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.
Triethylene glycol (CAS 112-27-6)	Listed.

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Pennsylvania RTK - Hazardous Substances

Butane (CAS 106-97-8)	Listed.
Ethanol (CAS 64-17-5)	Listed.
Propane (CAS 74-98-6)	Listed.
Triethylene glycol (CAS 112-27-6)	Listed.

US. Rhode Island RTK

Butane (CAS 106-97-8)	Listed.
Propane (CAS 74-98-6)	Listed.

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*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	<p>LYSOL® Brand (Kills 99.9% of Bacteria) Neutra Air Sanitizing Spray – Citrus Zest, 10 oz/16 oz – 8073138v1.0</p> <p>LYSOL® Brand (Kills 99.9% of Bacteria) Neutra Air Sanitizing Spray – Fresh Breeze, 10 oz/16 oz – 8073139v1.0</p> <p>LYSOL® Brand (Kills 99.9% of Bacteria) Neutra Air Sanitizing Spray – Morning Linen, 10 oz/16 oz – 8073141v1.0</p>
Issue date	12-September-2013
Effective date	15-September-2013
Prepared by	Reckitt Benckiser Regulatory Department Phone: 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

MANUFACTURER: **SKM INDUSTRIES INC.**
1012 UNDERWOOD ROAD
P.O. BOX 278
OLYPHANT, PA 18447
INFORMATION TELEPHONE NUMBER: (570) 383-3062
IN CASE OF EMERGENCY: CALL CHEMTREC at 1-800-424-9300

-----**SECTION I – PRODUCT IDENTIFICATION**-----

PRODUCT NAME: **MULTIPURPOSE CORRECTION FLUID**
ITEMS: **1276, WHITE & 1440-1448, COLORS; BULK**
PRODUCT SIZES: **18ml & 22ml**
PRODUCT CLASS: **CORRECTION FLUID BOTTLE**

-----**SECTION II – COMPOSITION**-----

TITANIUM DIOXIDE (13463-67-7)
PETROLEUM SOLVENT (64742-48-9)
RESINS, DISPERSANT, COLORANTS

-----**SECTION III – PHYSICAL & CHEMICAL CHARACTERISTICS**-----

BOILING POINT (F'): 235 to 290 approx.
VAPOR PRESSURE (mm Hg): 45 at 100 F
SOLUBILITY IN WATER: PRACTICALLY INSOLUBLE (LESS THAN 1%)
APPEARANCE AND ODOR: FREE FLOWING LIQUID WITH SOLVENT ODOR
SPECIFIC GRAVITY (H₂O=1): 0.72 at 60
EVAPORATION RATE (BUTYL ACETATE=1): 1.6
PH: N/A
FREEZING POINT (F'): N/A
MELTING POINT (F'): N/A
VAPOR DENSITY (AIR=1): 4.8
SATURATION IN AIR: N/A
AUTOIGNITION TEMP (F'): 720 approx

-----**SECTION IV – FIRE & EXPLOSION INFORMATION**-----

FLASH POINT (METHOD USED): 45 DEG F. (TCC)
EXTINGUISHING MEDIA FOR FIRES: CO₂, FOAM, DRY CHEMICAL
FIRE & EXPLOSION HAZARD: PRODUCT IS FLAMMABLE. KEEP CONTAINER TIGHTLY CLOSED.
ISOLATE FROM HEAT, SPARKS, AND OPEN FLAME.
FIRE FIGHTING PROCEDURES: TREAT AS PETROLEUM SOLVENT. EXPECT FUMES, SMOKE, CARBON DIOXIDE, AND OTHER NORMAL DECOMPOSITION PRODUCTS. SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.

-----**SECTION V – PHYSICAL HAZARDS/REACTIVITY**-----

STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY: (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE
HAZARDOUS POLYMERIZATION PRODUCT: NONE

-----**SECTION VI – HEALTH HAZARD DATA**-----

OCCUPATIONAL EXPOSURE LIMITS (PEL'S, TLV'S, ETC): 8 HOUR TWA IS 400 PPM.
UNDER NORMAL USE CONDITIONS, TWA IS 1 PPM
WARNING SIGNALS: N/A
INHALATION: NO FORESEEABLE ILL EFFECTS ANTICIPATED UNDER NORMAL USE CONDITIONS. EXPECTED TO HAVE A LOW DEGREE OF TOXICITY BY INHALING AND DOES NOT PRODUCE INTOXICATION. BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE IRRITATION OF NOSE AND THROAT AND SIGNS OF NERVOUS SYSTEM DEPRESSION. PREEXISTING LUNG CONDITIONS MAY BE AGGRAVATED BY OVER EXPOSURE.
INGESTION: LOW DEGREE OF TOXICITY. INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF DIGESTIVE TRACT AND NERVOUS SYSTEM DEPRESSION.
SKIN: CONTACT MAY CAUSE MILD SKIN IRRITATION IN PERSONS WITH SENSITIVE SKIN. NO HARMFUL EFFECTS HAVE BEEN DEMONSTRATED IN SKIN ABSORPTION

COMPANY: **SKM INDUSTRIES INC.**
PRODUCT: **MULTIPURPOSE CORRECTION FLUID**

STUDIES OF SOLVENTS: SOLVENTS CAN BE ABSORBED THROUGH THE SKIN IN PROLONGED CONTACT HOWEVER, NO ILL EFFECTS HAVE BEEN SHOWN.

EYE CONTACT: MAY CAUSE MILD EYE IRRITATION. SOLIDS MAY INJURE EYE TISSUE.

OTHER: NOT IDENTIFIED AS A CARCINOGEN OR AGENT OF REPRODUCTIVE HARM.

-----**SECTION VII – FIRST AID & MEDICAL EMERGENCY PROCEDURE**-----

SKIN: CLEAN SKIN THOROUGHLY WITH SOAP AND WATER

EYES: WASH THOROUGHLY AND REPEATEDLY WITH WATER. CONSULT PHYSICIAN IF IRRITATION OCCURS

INGESTION: CONSULT PHYSICIAN OR POISON CONTROL CENTER

INHALATION: NO FORESEEABLE ILL EFFECTS UNDER NORMAL USE CONDITIONS. NON-INTOXICATING. DELIBERATE CONCENTRATION AND INHALATION MAY CAUSE SUFFOCATION.

NOTES TO PHYSICIAN: DO NOT INDUCE VOMITING. GIVE INDIVIDUAL FRESH AIR.

-----**SECTION VIII – WORK PRACTICES**-----

HANDLING & STORAGE: NO UNUSUAL HANDLING OR STORAGE REQUIREMENTS IF USED AS INTENDED AND DIRECTED. LARGE QUANTITY WAREHOUSE

STORAGE SHOULD TAKE PRECAUTIONS IN ACCORDANCE WITH THE STORAGE OF FLAMMABLE LIQUIDS. AVOID EXCESSIVE HEAT. KEEP AWAY FROM FIRE AND FLAMES.

NORMAL CLEAN UP: CLEAN UP SPILLS WITH ABSORBENT TOWELS, TISSUES. DISPOSE AS NORMAL TRASH.

WASTE DISPOSAL METHODS: DISPOSE AS NORMAL TRASH.

-----**SECTION IX – EXPOSURE CONTROL METHODS**-----

RESPIRATORY PROTECTION: NONE NECESSARY UNDER NORMAL USE CONDITIONS.

EYE PROTECTION: NONE NECESSARY UNDER NORMAL USE CONDITIONS

SKIN PROTECTION: NONE NECESSARY UNDER NORMAL USE CONDITIONS

ENGINEERING CONTROLS: NONE NECESSARY UNDER NORMAL USE CONDITIONS. KEEP CONTAINERS CLOSED.

-----**SECTION X – ENVIRONMENTAL IMPACT**-----

APPLICABLE REGULATIONS: STORE AWAY FROM HEAT, FIRE, AND FLAME

DOT HAZARD CLASS: ORM-D

DOT SHIPPING NAME: IF SHIPPED GROUND: ORM-D CONSUMER COMMODITY

IF SHIPPED AIR, PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.(CONTAINS HEPTANE) UN 1206

CLASS: 3 FLAMMABLE

PACKING GROUP: II

ENVIRONMENTAL EFFECTS: DOES NOT DEplete OZONE LAYER. ALL COMPONENTS OF THIS PRODUCT COMPLY WITH THE U.S. TOXIC SUBSTANCE CONTROL ACT (TSCA).

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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.

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Get medical attention.

If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)

Unsuitable extinguishing media : 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 products : Carbon oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.



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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/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	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/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

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. 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.

Eye protection

: Wear the following personal protective equipment:
Safety goggles

Skin and body protection

: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
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
pH	: 6.0 - 9.2
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available

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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/cm ³
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 mm ² /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 reactions	:	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 oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
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:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

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 carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:

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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1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015

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 aircraft) : 366
Packing instruction (passenger aircraft) : 355

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 %
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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:

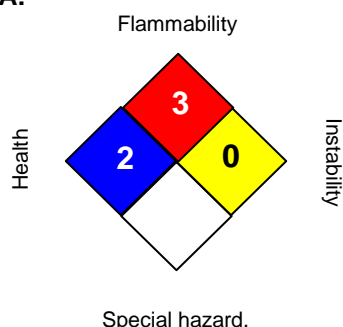
AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

PURELL® Hand Sanitizer

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SECTION 16. OTHER INFORMATION
Further information
NFPA:

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 Limits 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 Agency, <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

Safety Data Sheet

according to Hazard Communication Standard; 29 CFR 1910.1200



RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)

Version 1.0

Print Date 03/04/2015

Revision Date 02/24/2015

SDS Number 350000017507

1. PRODUCT AND COMPANY IDENTIFICATION

Product information

Product name : RAID® ANT & ROACH KILLER 17 (OUTDOOR FRESH®)

Recommended use : Insecticide

Manufacturer, importer, supplier : S.C. Johnson & Son, Inc.
1525 Howe Street
Racine WI 53403-2236

Telephone : +18005585252

Emergency telephone number : 24 Hour Medical Emergency Phone: (866)231-5406
24 Hour International Emergency Phone: (703)527-3887
24 Hour Transport Emergency Phone: (800)424-9300

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Globally Harmonized System (GHS) Classification

Hazard classification	Hazard category	Hazards identification
Aerosol	Category 2	Flammable aerosol.
Gases under pressure	Liquefied gas	Contains gas under pressure; may explode if heated.

Labelling

Hazard symbols

Flame

Gas cylinder

Signal word

Warning

Hazard statements

Flammable aerosol.

Contains gas under pressure; may explode if heated.

Precautionary statements

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Protect from sunlight. Store in a well-ventilated place.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

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Other hazards : None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight percent
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	10.00 - 30.00
Propane	74-98-6	5.00 - 10.00
Butane	106-97-8	1.00 - 5.00
Isobutane	75-28-5	1.00 - 5.00
Isopropanol	67-63-0	1.00 - 5.00
Imiprothrin	72963-72-5	0.10 - 1.00
Cypermethrin	52315-07-8	0.0001 - 0.10

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

For additional information on product ingredients, see www.whatsinsidescjohnson.com.

4. FIRST AID MEASURES

- Eye contact** : No special requirements
- Skin contact** : No special requirements
- Inhalation** : No special requirements.
- Ingestion** : No special requirements

5. FIREFIGHTING MEASURES

- Suitable extinguishing media** : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Specific hazards during firefighting** : Aerosol Product - Containers may rocket or explode in heat of fire. Do not allow run-off from fire fighting to enter drains or water courses.

Safety Data Sheet

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Further information : Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers. Wear full protective clothing and positive pressure self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Remove all sources of ignition.
Wear personal protective equipment.
Wash thoroughly after handling.

Environmental precautions : Do not flush into surface water or sanitary sewer system.
Use appropriate containment to avoid environmental contamination.
Outside of normal use, avoid release to the environment.

Methods and materials for containment and cleaning up : If damage occurs to aerosol can:
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Use only non-sparking equipment.
Dike large spills.
Clean residue from spill site.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Avoid contact with skin, eyes and clothing.
Do not enter places where used or stored until adequately ventilated.
For personal protection see section 8.
Use only as directed.
KEEP OUT OF REACH OF CHILDREN AND PETS.
Pressurized container.
Do not pierce or burn, even after use.

Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Do not spray on an open flame or other ignition source.

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Storage

Requirements for storage areas and containers : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Keep away from food, drink and animal feedingstuffs.
Keep in a dry, cool and well-ventilated place.
Protect from sunlight.
Store in a well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Components	CAS-No.	mg/m3	ppm	Non-standard units	Basis
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	1,200 mg/m3	152 ppm	-	SUPPLIER
Propane	74-98-6	-	1,000 ppm	-	ACGIH TWA
Propane	74-98-6	1,800 mg/m3	1,000 ppm	-	OSHA TWA
Butane	106-97-8	-	1,000 ppm	-	ACGIH STEL
Isobutane	75-28-5	-	1,000 ppm	-	ACGIH STEL
Isopropanol	67-63-0	980 mg/m3	400 ppm	-	OSHA TWA
Isopropanol	67-63-0	-	400 ppm	-	ACGIH STEL
Isopropanol	67-63-0	-	200 ppm	-	ACGIH TWA

Personal protective equipment

Respiratory protection : Do not spray in enclosed areas.

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- Hand protection** : No special requirements.
- Eye protection** : No special requirements.
- Skin and body protection** : No special requirements.
- Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : aerosol
- Color** : clear
- Odor** : pleasant
- Odour Threshold** : No data available
- pH** : No data available
- Melting point/freezing point** : No data available
- Initial boiling point and boiling range** : No data available
- Flash point** : -7 °C
19.4 °F
- Evaporation rate** : No data available
- Flammability (solid, gas)** : No data available
- Upper/lower flammability or explosive limits** : No data available

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Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	0.877 g/cm ³ at 21.11 °C
Solubility(ies)	:	partly soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	
Decomposition temperature	:	No data available
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Volatile Organic Compounds Total VOC (wt. %)*	:	12.1 % - additional exemptions may apply *as defined by US Federal and State Consumer Product Regulations
Other information	:	None identified

10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Heat, flames and sparks.

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Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Emergency Overview : Warning

Acute oral toxicity : NA GHS LD50
estimated
> 5,000 mg/kg

Acute inhalation toxicity : NA GHS LC50 (dust and mist)
estimated
> 5.1 mg/l

Acute dermal toxicity : NA GHS LD50
estimated
> 5,000 mg/kg

GHS Properties	Classification	Routes of entry
Acute toxicity	No classification proposed	-
Skin corrosion/irritation	No classification proposed	-
Serious eye damage/eye irritation	No classification proposed	-
Skin sensitisation	No classification proposed	-
Respiratory sensitisation	No classification proposed	-
Germ cell mutagenicity	No classification proposed	-
Carcinogenicity	No classification proposed	-
Reproductive toxicity	No classification proposed	-
Specific target organ toxicity - single exposure	No classification proposed	-

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Specific target organ toxicity - repeated exposure	No classification proposed	-
Aspiration hazard	No classification proposed	-

Aggravated Medical Condition : None known.

12. ECOLOGICAL INFORMATION

Product : The product itself has not been tested.

Toxicity

The ingredients in this formula have been reviewed and no adverse impact to the environment is expected when used according to label directions.

Toxicity to fish

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	LC50	Fish	> 1,028 mg/l	96 h
Propane	LC50	Fish	27.98 mg/l	96 h
Butane	No data available			
Isobutane	LC50	Fish	27.98 mg/l	96 h
Isopropanol	LC50	Pimephales promelas (fathead minnow)	9,640 mg/l	96 h
Imiprothrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.038 mg/l	96 h

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Cypermethrin	LC50	Oncorhynchus mykiss (rainbow trout)	0.00283 mg/l	96 h
	NOEC	Pimephales promelas (fathead minnow)	0.00001 mg/l	28 d

Toxicity to aquatic invertebrates

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50 No data available		> 3,193 mg/l	48 h
Propane	LC50	Daphnid	14.22 mg/l	48 h
Butane	No data available			
Isobutane	LC50	Daphnid	16.33 mg/l	48 h
Isopropanol	EC50	Daphnia magna (Water flea)	13,299 mg/l	48 h
Imiprothrin	EC50	Daphnia magna (Water flea)	0.051 mg/l	48 h
Cypermethrin	EC50	Daphnia magna (Water flea)	0.00471 mg/l	48 h

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	NOEC	Daphnia magna (Water flea)	0.00004 mg/l	21 d
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Toxicity to aquatic plants

Components	End point	Species	Value	Exposure time
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC50	Skeletonema costatum	3,198 mg/l	72 h
Propane	No data available			
Butane	No data available			
Isobutane	EC50	Green algae	8.57 mg/l	96 h
Isopropanol	EC50	Desmodesmus subspicatus (green algae)	> 1,000 mg/l	72 h
Imiprothrin	NOEC	Pseudokirchneriella subcapitata (green algae)	1.3 mg/l	72 h
Cypermethrin	ErC50 No data available		> 0.0033 mg/l	72 h

Persistence and degradability

Component	Biodegradation	Exposure time	Summary
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available		
Propane	70 %	< 10 d	Readily biodegradable
Butane	100 %	385.5 h	Readily biodegradable
Isobutane	70 %	< 10 d	Readily biodegradable
Isopropanol	53 %	5 d	Readily biodegradable
Imiprothrin	58 %	28 d	Not readily biodegradable.

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Cypermethrin	0.6 - 1.4 %	33 d	Not readily biodegradable.
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Bioaccumulative potential

Component	Bioconcentration factor (BCF)	Partition Coefficient n-Octanol/water (log)
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	No data available
Propane	No data available	2.36
Butane	No data available	2.89
Isobutane	1.57 - 1.97	2.8
Isopropanol	0.96 estimated	0.05
Imiprothrin	58.2 Calculated	2.9
Cypermethrin	373.4 Measured	5.3 - 5.6

Mobility

Component	End point	Value
Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, <2% aromatics	No data available	-
Propane	No data available	
Butane	No data available	
Isobutane	No data available	
Isopropanol	No data available	
Imiprothrin	Koc	268
Cypermethrin	Koc	80653 - 574360

PBT and vPvB assessment

Component	Results
Propane	Not fulfilling PBT and vPvB criteria
Butane	Not fulfilling PBT and vPvB criteria
Isobutane	Not fulfilling PBT and vPvB criteria

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Isopropanol	Not fulfilling PBT and vPvB criteria
Imiprothrin	Not fulfilling PBT and vPvB criteria
Cypermethrin	Not fulfilling PBT and vPvB criteria

Other adverse effects : None known.

13. DISPOSAL CONSIDERATIONS

PESTICIDAL WASTE:

For disposal information, please read and follow Disposal instructions on the pesticide label.

Consumer may discard empty container in trash, or recycle where facilities exist.

14. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up-to-date shipping information.

	Land transport	Sea transport	Air transport
UN number	1950	1950	1950
UN proper shipping name	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1	AEROSOLS, Flammable, 2.1
Transport hazard class(es)	2.1	2	2.1
Packing group	-	-	-
Environmental hazards	-	-	-
Special precautions for user	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.	Limited quantities derogation may be applicable to this product, please check transport documents.

15. REGULATORY INFORMATION

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FIFRA Labeling

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:

- Contents under pressure.
- Flammable.
- Exposure to temperatures above 130° F may cause bursting.

Notification status : All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California Prop. 65 : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Registration # / Agency
4822-447/US/EPA

16. OTHER INFORMATION

HMIS Ratings

Health	2
Flammability	4
Reactivity	0

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NFPA Ratings

Health	2
Fire	4
Reactivity	0
Special	-

This information is being provided in accordance with the Occupational Safety and Health Administration (OSHA) regulation (29 CFR 1910.1200). The information supplied is designed for workplaces where product use and frequency of exposure exceeds that established for the labeled consumer use.

Further information

This document has been prepared using data from sources considered to be technically reliable. It does not constitute a warranty, expressed or implied, as to the accuracy of the information contained herein. Actual conditions of use are beyond the seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.

Prepared by	SC Johnson Global Safety Assessment & Regulatory Affairs (GSARA)
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SAFETY DATA SHEET

1. Identification

Product identifier RED Z®
Other means of identification Not available.
Recommended use Not available.
Recommended restrictions None known.
Manufacturer/Importer/Supplier/Distributor information
Manufacturer
Manufacturer: Safetec of America, Inc.
887 Kensington Avenue
Buffalo, NY 14215
Company Telephone: 1-716-895-1822
E-mail Address: www.safetec.com
Emergency Telephone: 1-800-255-3924
Supplier Refer to Manufacturer

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 This mixture does not meet the classification criteria according to OSHA HazCom 2012.
OSHA defined hazards This mixture does not meet the classification criteria according to OSHA HazCom 2012.
Label elements
Hazard symbol None.
Signal word None.
Hazard statement The mixture does not meet the criteria for classification.
Precautionary statement
Prevention None required according to OSHA Hazcom 2012.
Response None required according to OSHA Hazcom 2012.
Storage None required according to OSHA Hazcom 2012.
Disposal None required according to OSHA Hazcom 2012.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Superabsorbent Polymer		9033-79-8	> 97
Sodium dichloro-s-triazinetriene	SODIUM DICHLOROISOCYANURATE	2893-78-9	0.25

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact Wash off with warm water and soap. Get medical attention if symptoms occur.
Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.
Ingestion Seek medical advice.
Most important symptoms/effects, acute and delayed May be mildly irritating to skin, eyes and respiratory system.

Indication of immediate medical attention and special treatment needed Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media Water. Water Spray or Fog. Dry chemicals. Foam. Carbon dioxide (CO₂).

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

Specific hazards arising from the chemical Thermal decomposition or combustion may liberate toxic gases or fumes.

Special protective equipment and precautions for firefighters None known.

Fire fighting equipment/instructions Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

General fire hazards No unusual fire or explosion hazards noted.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NO_x).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. After dust removal, flush contaminated area thoroughly with water.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid dust formation. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Keep cool. Store away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits No exposure limits noted for ingredient(s).

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

Appropriate engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves recommended.

Other

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health or safety professional or manufacturer for specific information.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards Not available.

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 contaminants.

9. Physical and chemical properties

Appearance Granular powder.

Physical state Solid.

Form Powder.

Color Off-white.

Odor Slight chlorine.

Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Slight.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	High humidity. High temperatures.
Incompatible materials	Strong reducing agents.
Hazardous decomposition products	Carbon oxides. Nitrogen oxides (NO _x).

11. Toxicological information

Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory irritation.
Skin contact	May cause mild skin irritation.
Eye contact	May cause mild eye irritation.
Ingestion	No harmful effects expected in amounts likely to be ingested by accident.

Most important symptoms/effects, acute and delayed May be mildly irritating to skin, eyes and respiratory system.

Information on toxicological effects

Acute toxicity	No adverse effects are expected.
Skin corrosion/irritation	May cause mild skin irritation.
Serious eye damage/eye irritation	May cause mild eye irritation.
Respiratory or skin sensitization	
Respiratory sensitization	This product is not expected to cause respiratory sensitization.
Skin sensitizer	This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive 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.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil 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.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

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

US 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 List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

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

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. 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(s) 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 in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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

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

Issue date 02-23-2015
Version # 01

Disclaimer

Prepared by: ICC The Compliance Center Inc. 1-888-442-9628
<http://www.thecompliancecenter.com>

Disclaimer

This Safety Data Sheet was prepared by ICC The Compliance Center Inc. using information provided by / obtained from and CCOHS' Web Information Service. The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. ICC The Compliance Center Inc. and expressly disclaim all expressed or implied warranties and assume no responsibilities for the accuracy or 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.

This Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of ICC The Compliance Center Inc. and

Revision Information

Product and Company Identification: Product and Company Identification
Composition / Information on Ingredients: Ingredients
Physical & Chemical Properties: Multiple Properties
Regulatory Information: United States
GHS: Classification

Bibliography

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Canadian Centre for Occupational Health and Safety, CCIInfoWeb Databases, 2014
(Chempendium, RTECs, HSDB, INCHEM)
European Chemicals Bureau, Existing Chemicals Work Area, EINECS Information System, 2014.
Material Safety Data Sheet from manufacturer.
OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2014.

Sanford Corporation
2740 Washington Blvd.
Bellwood, IL 60104

Telephone No: 1-800-323-0749
Date of Last Revision: January 2, 2003
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

SAFEWAY INDUSTRIES, INC.
3372 N. HOLTON ST.
MILWAUKEE, WI 53212
(414) 964-7627

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE CHEMTREC 1-800-424-9300

I. IDENTIFICATION

PRODUCT NAME: SANI-WAY 6
PRODUCT CODE: S060S
SYNONYMS: BLEACH
CHEMICAL FAMILY: INORGANIC SALTS - OXIDIZING AGENT
D.O.T. HAZARD CLASS: HYPOCHLORITE SOLUTION, 8, UN1791, PG III, DOT ERG NO. 60

II. HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS (Specific Chemical Identity)	%	TLV
SODIUM HYPOCHLORITE	6.5 – 7.5%	*C-1PPM

*EXPOSURE LIMITS FOR CHLORINE GIVEN - C DENOTES CEILING LIMIT

III. PHYSICAL DATA

BOILING POINT: (deg. F) Approx. 235
FREEZING POINT: (deg. F) 10 deg. F.
SPECIFIC GRAVITY: 1.098 – 1.103
SOLUBILITY IN WATER: Excellent
EVAPORATION RATE: Varies with time and temperature
APPEARANCE AND ODOR: Clear, yellow liquid with a slight chlorine odor.

IV. FIRE AND EXPLOSIVE HAZARD DATA

FLASH POINT (METHOD USED): NA
FLAMMABLE LIMITS: LEL: NA; UEL: NA
EXTINGUISHING MEDIA: For fires in area use appropriate media-water, spray, dry chemical or carbon dioxide foam.
SPECIAL FIRE FIGHTING PROCEDURES: Evacuate area of unprotected personnel.
Wear a NIOSH-Approved self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSIVE HAZARDS: Product will release chlorine gas when heated.
This could cause container to burst.

V. HEALTH HAZARDS

THRESHOLD LIMIT VALUE: Not established
EFFECTS OF OVEREXPOSURE:

EYE CONTACT: Causes severe burns and destruction of tissues. Small quantities can result in permanent damage and loss of vision.

SKIN CONTACT: Causes severe damage to skin, air passages and all tissue. Contact with skin tissue will cause severe burning. Potentially fatal if severely splashed, inhaled or ingested.

INHALATION: Inhalation causes coughing and irritation of nose, throat, and mucous membranes. Inhalation of dust or mists can cause damage to the upper respiratory tract and to the lung tissue.

-----**EMERGENCY AND FIRST AID PROCEDURES**-----

EYE CONTACT: Immediately flush eyes with water for at least 15 minutes. Hold eyelids open during this flushing with water. **CALL A PHYSICIAN.**

SKIN CONTACT: Flush area with water while removing contaminated clothing and shoes. Flush all affected areas with water for at least 15 minutes. **DO NOT** attempt to neutralize with chemical agents. Do not reuse clothing or shoes until cleaned. If irritation persists, **CALL A PHYSICIAN.**

INGESTION: If conscious, drink copious amounts of water. **DO NOT INDUCE VOMITING.** Fruit Juice or diluted vinegar may be given to accomplish neutralization. If unconscious or in convulsions, take immediately to a hospital or physician. Do not give anything by mouth to an unconscious victim. **CALL A PHYSICIAN IMMEDIATELY.**

INHALATION: Remove victim to fresh air. **CALL A PHYSICIAN.**

VI. REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: Do not mix with acidic materials of any kind. Avoid temperatures above 100 °F.

INCOMPATIBILITY (MATERIALS TO AVOID): Acids, Ammonia, Organic materials. Always add product to water, and not visa versa.

HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine-containing gases can be produced upon heating.

HAZARDOUS POLYMERIZATION: Will not occur.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED.
Evacuate all unprotected personnel from area. Maintain adequate ventilation. Use proper safety equipment. Contain spill, place into drums for proper disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge into sewers and surface waters. Notify authorities if entry occurs.

WASTE DISPOSAL METHOD:
Observe all Local, State and Federal Regulations.

VIII. SPECIAL PROTECTIVE INFORMATION

CONSULT SAFETY EQUIPMENT DISTRIBUTOR

RESPIRATORY PROTECTION: Wear a NIOSH-Approved respirator appropriate for the vapor, dust or mist concentration at point of use.

VENTILATION: Maintain adequate ventilation. Keep levels below recommended TLV. Avoid mist formation.

PROTECTIVE GLOVES: Rubber (Latex). Polyvinyl Chloride. Neoprene.

EYE PROTECTION: Chemical Safety Goggles. Safety Glasses. Face Shield. Do not wear contact lenses.

OTHER PROTECTIVE EQUIPMENT: Eye-wash station, Safety shower, Rubber apron Chemically resistant boots and full protective clothing covering all exposed Areas.

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in a cool well ventilated area away from all sources of ignition and out of direct sunlight. Keep containers tightly closed. Store away from incompatible materials. Do not freeze.

OTHER PRECAUTIONS:

Avoid contact with skin and eyes. Do not swallow. Use with adequate ventilation. Avoid prolonged or repeated breathing of vapors. Wash thoroughly after handling. Avoid dust and mist formation.

** ** * ** * ** * ** * ** * ** * ** * ** * ** * ** * ** * ** * ** * ** * **

The data in this material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as a warranty or representation for which Safeway Industries, Inc. assumes legal responsibility. This information is provided solely for your consideration, investigation and verification.

DATE 8/05

Sanford NA
2707 Butterfield Road
Oak Brook, IL 60523
Phone: 630-481-2000 or 800-323-0749

Emergency Medical Number: 888-786-0972

Creation Date: October 20, 2003

Section One: Product Information

Product Name: Sanford Correction Fluid includes Quill Correction Fluid #787141
Colors: Bond White

Section Two: Composition

Titanium dioxide (13463-67-7), solvent naphtha (64742-89-8), mineral spirits (64742-48-9), resins, dispersant, colorants, fragrance

Section Three: Hazards Identification

If vapors are deliberately inhaled, the following symptoms may occur: respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, convulsions, cardiac sensitization, coma, and death.

Section Four: First Aid Measures

Inhalation: This product is considered safe under normal use conditions.
Skin Contact: Wash with soap and water.
Eye Contact: Irritation may occur. Wash through with water.
Ingestion: Contact a physician. NOTE TO PHYSICIAN: Contains solvent naphtha and mineral spirits, which may cause chemical pneumonitis.

Section Five: Fire Fighting Measures

Flash Point: 25.5F (Closed Cup)
Flammability Limits (% by volume): Lower: 1% Upper: 8%
Extinguishing Media: Dry chemical, foam, carbon dioxide.
Special Fire Fighting Measures: In fires involving large quantities, use self-contained breathing apparatus. Cool fire-exposed containers with water spray/fog.
Unusual Fire and Explosion Hazards: Product is flammable. May produce hazardous decomposition products.

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Handling: No special handling requirements.
Storage: In large quantities, store in a well-ventilated area.

Section Eight: Exposure Controls and Personal Protection

Eye Protection: None under normal use conditions.
 Clothing: None under normal use conditions.
 Respirator: None under normal use conditions.
 Ventilation: None under normal use conditions.

Section Nine: Physical and Chemical Properties

For product unless otherwise specified:

Boiling Point: 209 - 230F
 Specific Gravity: 1.29
 Vapor Pressure: 124 mm Hg at 100F
 Solubility in Water: Negligible
 Evaporation Rate: 3.6 (butyl acetate = 1)
 Appearance; Odor: White fluid; solvent odor

Section Ten: Stability and Reactivity

Stability: Stable
 Conditions to Avoid: Open flames or other ignition sources.
 Chemical Incompatibility: Strong oxidizers
 Hazardous Decomposition: May produce oxides of carbon, nitrogen, and various hydrocarbons in fire.
 Hazardous Polymerization: Will not occur

Section Eleven: Toxicological Information

IARC Monographs: No
 National Toxicology Program: No
 OSHA Regulated: No

Section Twelve: Ecological Information

Not available

Section Thirteen: Disposal Considerations

Dispose in accordance with Federal, State, and Local Regulations.

Section Fourteen: Transport Information

ORM-D Consumer Commodity
 Flammable Liquid, n.o.s., (petroleum distillates), Class 3, UN1993, PGII (25.5F CC), Ltd. Qty's, EmS#3-07
 Consumer Commodity, 9, ID8000, packing instruction 910

Section Fifteen: Regulatory Information

TSCA INVENTORY: The product on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory. All ingredients used to manufacture this product are listed on the TSCA Inventory

Section Sixteen: Other Information

HMIS Code	
Health	2
Flammability	3
Reactivity	0
Personal Protection	N/A

0=Minimal / 4 = Severe

Sanford NA has been advised by Counsel that the OSHA Hazard Communication Standard does not apply to the Sanford Product described in this Material Safety Data Sheet. The reason for the exemption is contained in 29 CFR 1910.1200(b)(6)(ix) as amended July 1, 2002 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 this MSDS meant to comply with all requirements of the Hazard Communication Standard.

MATERIAL SAFETY DATA SHEET

Section I

Manufacturer's Name: Schultz Company
Address: 11730 Northline Industrial Drive
City, State, Zip Code: St. Louis, Missouri 63043
Telephone Number: 314/567-4545
Trade Name: "Schultz-Instant"® Liquid Plant Food

Section II - Hazardous Ingredients

Potassium Nitrate - This is a fertilizer and is not intended for animal or human consumption.

Section III - Physical and Chemical Data

Boiling Point - 100° C
VAP Press - Nil
Soluble in Water - Yes
Composition - Urea, Ammonium and Potassium Phosphates,
Potassium Nitrate, Dye, Water
Sp. Gravity - 1.25
Appearance and Odor - Dark green suspension
Odorless

Section IV - Health Hazard Data

Potassium Nitrate - Hazardous to animals and humans if ingested. **Induce vomiting. Get medical help if more than ½ teaspoonful is ingested.**

Section V - Spill or Leak Procedures

Same as for common table salt.

Section VI - Waste Disposal

Causes eutrophication. **Do not empty into sewers or waterways.** Use ordinary landfill disposal sites.

Section VII - Additional Information

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 11/06/2015

Reviewed on 11/06/2015

1 Identification

- **Product identifier**
- **Trade name:** Sheila Shine (Aerosol)
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Polishing agent/ Burnishing compound
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Sheila Shine Inc.
7725 W 2nd Court
Hialeah, FL 33014
Phone: (305) 557-1729
- **Emergency telephone number:**
ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Aerosol 1 H222 Extremely flammable aerosol.



GHS04 Gas cylinder

Press. Gas H280 Contains gas under pressure; may explode if heated.



GHS08 Health hazard

Carc. 1B H350 May cause cancer.

STOT RE 2 H373 May cause damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

- **Additional information:**

There are no other hazards not otherwise classified that have been identified.

0 % of the mixture consists of component(s) of unknown toxicity.

- **Label elements**

- **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

(Cont'd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 11/06/2015

Reviewed on 11/06/2015

Trade name: Sheila Shine (Aerosol)

(Cont'd. of page 1)

· **Hazard pictograms:**

GHS02 GHS04 GHS07 GHS08

· **Signal word:** Danger· **Hazard-determining components of labeling:**

Distillates (petroleum), solvent-refined light paraffinic ethylbenzene

Distillates (petroleum), solvent-refined heavy paraffinic tetrachloroethylene

· **Hazard statements:**

H222 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

H315 Causes skin irritation.

H350 May cause cancer.

H373 May cause damage to the hearing organs through prolonged or repeated exposure.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P251 Do not pierce or burn, even after use.

P260 Do not breathe mist/vapors/spray.

P211 Do not spray on an open flame or other ignition source.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P332+P313 IF skin irritation occurs: Get medical advice/attention.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system**· **NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 2

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

HEALTH *1 Health = *1

FIRE 2 Fire = 2

PHYSICAL 0 Physical = 0

(Cont'd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 11/06/2015

Reviewed on 11/06/2015

Trade name: Sheila Shine (Aerosol)

(Cont'd. of page 2)

* - Indicates a long term health hazard from repeated or prolonged exposures.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

64741-89-5	Distillates (petroleum), solvent-refined light paraffinic ⚠ Carc. 1B, H350	30-60%
127-18-4	tetrachloroethylene ⚠ Carc. 2, H351	10-30%
64741-88-4	Distillates (petroleum), solvent-refined heavy paraffinic ⚠ Carc. 1B, H350	10-30%
1330-20-7	xylene ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	7-13%
124-38-9	carbon dioxide ⚠ Press. Gas, H280	<10%
100-41-4	ethylbenzene ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Acute Tox. 4, H332	1-5%

- **Additional information:**

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Take affected persons out into the fresh air.

Immediately remove any clothing soiled by the product.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- **After eye contact:**

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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Trade name: Sheila Shine (Aerosol)

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- **After swallowing:**
 Unlikely route of exposure.
 Rinse out mouth and then drink plenty of water.
 A person vomiting while lying on their back should be turned onto their side.
 Do not induce vomiting; immediately call for medical help.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:**
 Coughing
 Breathing difficulty
 Dizziness
 Irritant to skin and mucous membranes.
 Nausea
 Slight irritant effect on eyes.
 Gastric or intestinal disorders when ingested.
 Disorientation
- **Danger:**
 Danger of disturbed cardiac rhythm.
 Danger of convulsion.
 Danger of impaired breathing.
 Carcinogenic.
 Danger through skin absorption.
 May be harmful if inhaled.
- **Indication of any immediate medical attention and special treatment needed:**
 Medical supervision for at least 48 hours.
 If necessary oxygen respiration treatment.
 Monitor circulation.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
 Water fog / haze
 Foam
 Fire-extinguishing powder
 Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:** Water stream.
- **Special hazards arising from the substance or mixture**
 Danger of receptacles bursting because of high vapor pressure if heated.
 During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:**
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
- **Additional information:**
 Eliminate all ignition sources if safe to do so.
 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

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Trade name: Sheila Shine (Aerosol)

Cool endangered receptacles with water fog.

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6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Keep people at a distance and stay upwind.

Particular danger of slipping on leaked/spilled product.

- **Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

- **Methods and material for containment and cleaning up:**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Remove from the water surface (e.g. skim or suck off).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to item 13.

- **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling**

- **Precautions for safe handling:**

Keep away from heat and direct sunlight.

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

- **Information about protection against explosions and fires:**

Emergency cooling must be available in case of nearby fire.

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

Flammable gas-air mixtures may be formed in empty containers/receptacles.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 120 °F / 49 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

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Store away from oxidizing agents.

· **Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

· **Specific end use(s):** No relevant information available.

8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

127-18-4 tetrachloroethylene

PEL (USA)	Long-term value: 100 ppm Ceiling limit value: 200; 300* ppm *5-min peak in any 3 hrs
REL (USA)	Minimize workplace exp. concs.; Pocket Guide App. A
TLV (USA)	Short-term value: 685 mg/m ³ , 100 ppm Long-term value: 170 mg/m ³ , 25 ppm BEI
EL (Canada)	Short-term value: 100 ppm Long-term value: 25 ppm IARC 2A
EV (Canada)	Short-term value: 100 ppm Long-term value: 25 ppm
LMPE (Mexico)	Short-term value: 100 ppm Long-term value: 25 ppm A3, IBE

124-38-9 carbon dioxide

PEL (USA)	Long-term value: 9000 mg/m ³ , 5000 ppm
REL (USA)	Short-term value: 54,000 mg/m ³ , 30,000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
TLV (USA)	Short-term value: 54,000 mg/m ³ , 30,000 ppm Long-term value: 9000 mg/m ³ , 5000 ppm
EL (Canada)	Short-term value: 15000 ppm Long-term value: 5000 ppm
EV (Canada)	Short-term value: 54,000 mg/m ³ , 30,000 ppm Long-term value: 9,000 mg/m ³ , 5,000 ppm
LMPE (Mexico)	Short-term value: 30000 ppm Long-term value: 5000 ppm

1330-20-7 xylene

PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 655 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm

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TLV (USA)	Short-term value: 651 mg/m ³ , 150 ppm Long-term value: 434 mg/m ³ , 100 ppm BEI
EL (Canada)	Short-term value: 150 ppm Long-term value: 100 ppm
EV (Canada)	Short-term value: 650 mg/m ³ , 150 ppm Long-term value: 435 mg/m ³ , 100 ppm
LMPE (Mexico)	Short-term value: 150 ppm Long-term value: 100 ppm A4, IBE

100-41-4 ethylbenzene

PEL (USA)	Long-term value: 435 mg/m ³ , 100 ppm
REL (USA)	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 87 mg/m ³ , 20 ppm BEI
EL (Canada)	Long-term value: 20 ppm IARC 2B
EV (Canada)	Short-term value: 540 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
LMPE (Mexico)	Long-term value: 20 ppm

Ingredients with biological limit values:**127-18-4 tetrachloroethylene**

BEI (USA)	3 ppm Medium: end-exhaled air Time: prior to shift Parameter: Tetrachloroethylene
	0.5 mg/L Medium: blood Time: prior to shift Parameter: Tetrachloroethylene

1330-20-7 xylene

BEI (USA)	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
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100-41-4 ethylbenzene

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Trade name: Sheila Shine (Aerosol)

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BEI (USA)	0.7 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air Time: not critical Parameter: Ethyl benzene (semi-quantitative)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Do not carry product impregnated cleaning cloths in trouser pockets.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
Use suitable respiratory protective device in case of insufficient ventilation.
For spills, respiratory protection may be advisable.
NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing
- **Limitation and supervision of exposure into the environment** No relevant information available.
- **Risk management measures**
See Section 7 for additional information.
No relevant information available.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General information**
- **Appearance:**

Form:	Liquid
Color:	Clear

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Trade name: Sheila Shine (Aerosol)

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· Odor:	Pleasant
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition:	
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	110 °C (230 °F)
· Flash point:	53 °C (127 °F) (TOC of liquid)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1,1 Vol % (estimated)
Upper:	7,0 Vol % (estimated)
· Vapor pressure at 20 °C (68 °F):	(Liquid) 10 mmHg ((Propellant) 838 psig)
· Density at 20 °C (68 °F):	0,964 g/cm ³ (8.045 lbs/gal)
· Relative density:	Not determined.
· Vapor density at 20 °C (68 °F):	> 1 (air = 1)
· Evaporation rate at 20 °C (68 °F):	< 1 (butyl acetate = 1)
· Solubility in / Miscibility with:	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Other information	No relevant information available.

10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**
Develops readily flammable gases / fumes.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomized.
Reacts with strong acids and oxidizing agents.
Reacts with certain metals.

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Trade name: Sheila Shine (Aerosol)

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Toxic fumes may be released if heated above the decomposition point.

- **Conditions to avoid:** Keep ignition sources away - Do not smoke.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**
Carbon monoxide and carbon dioxide
Hydrocarbons
Chlorine compounds

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

127-18-4 tetrachloroethylene

Oral	LD50	2629 mg/kg (rat)
------	------	------------------

1330-20-7 xylene

Oral	LD50	4300 mg/kg (rat)
------	------	------------------

Dermal	LD50	2000 mg/kg (rabbit)
--------	------	---------------------

- **Primary irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes.

- **On the eye:** Based on available data, the classification criteria are not met.

- **Sensitization:** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

May cause acne.

Inhalation of concentrated vapors as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

127-18-4	tetrachloroethylene	R
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Inhalation.

Eye contact.

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**

Vapors have narcotic effect.

May be harmful if inhaled.

- **Repeated dose toxicity:** May cause damage to organs through prolonged or repeated exposure.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carc. 1B

- **Carcinogenicity:** May cause cancer.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

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- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** May cause damage to organs through prolonged or repeated exposure.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** Toxic for aquatic organisms
- **Persistence and degradability:** The product is partially biodegradable. Significant residuals remain.
- **Behavior in environmental systems**
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Toxic for fish
Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Other adverse effects:** No relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Contact waste processors for recycling information.
The user of this 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. Residual materials should be treated as hazardous.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|----------------------------------|--|
| · UN-Number | |
| · DOT, ADR, IMDG, IATA | UN1950 |
| · UN proper shipping name | |
| · DOT | Aerosols |
| · ADR | 1950 AEROSOLS, ENVIRONMENTALLY HAZARDOUS |

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Trade name: Sheila Shine (Aerosol)

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<ul style="list-style-type: none"> · IMDG · IATA 	<p>AEROSOLS, MARINE POLLUTANT</p> <p>Aerosols, flammable, containing substances in Division 6.1, Packing Group III</p>
--	--

- Transport hazard class(es)

- DOT



<ul style="list-style-type: none"> · Class · Label 	<p>2.1</p> <p>2.1</p>
--	-----------------------

- ADR



<ul style="list-style-type: none"> · Class · Label 	<p>2 5TF Gases</p> <p>2.1+6.1</p>
--	-----------------------------------

- IMDG



<ul style="list-style-type: none"> · Class · Label 	<p>2.1</p> <p>2.1+6.1</p>
--	---------------------------

- IATA



<ul style="list-style-type: none"> · Class · Label 	<p>2.1</p> <p>2.1+6.1</p>
--	---------------------------

<ul style="list-style-type: none"> · Packing group 	<p>Aerosols are not assigned a packing group.</p>
---	---

<ul style="list-style-type: none"> · Environmental hazards 	<p>Product contains environmentally hazardous substances: tetrachloroethylene</p>
---	---

<ul style="list-style-type: none"> · Marine pollutant: 	<p>Yes</p> <p>Symbol (fish and tree)</p>
---	--

<ul style="list-style-type: none"> · Special marking (ADR): 	<p>Symbol (fish and tree)</p>
--	-------------------------------

<ul style="list-style-type: none"> · Special precautions for user 	<p>Warning: Gases</p>
--	-----------------------

<ul style="list-style-type: none"> · Danger code (Kemler): 	<p>-</p>
---	----------

<ul style="list-style-type: none"> · EMS Number: 	<p>F-D,S-U</p>
---	----------------

<ul style="list-style-type: none"> · Segregation groups 	<p>Liquid halogenated hydrocarbons</p>
--	--

<ul style="list-style-type: none"> · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	<p>Not applicable.</p>
---	------------------------

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Trade name: Sheila Shine (Aerosol)

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· **Transport/Additional information:**

· DOT	Limited Quantity for packages less than 30 kg and inner packagings less than 1000 mL.
· ADR	Limited Quantity for packages less than 30 kg and inner packagings less than 120 mL.
· IMDG	Limited Quantity for packages less than 30 kg and inner packagings less than 120 mL.
· IATA	Limited Quantity for packages less than 30 kg and inner packagings less than 120 mL.
· UN "Model Regulation"	UN 1950 AEROSOLS, 2.1 (6.1)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

· **Section 302 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 304 (emergency release notification):**

None of the ingredients are listed.

· **Sections 311/312 (hazardous chemical threshold planning quantity in pounds):**

None of the ingredients are listed.

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

127-18-4 | tetrachloroethylene

1330-20-7 | xylene

100-41-4 | ethylbenzene

· **TSCA (Toxic Substances Control Act)**

All ingredients are listed.

· **Proposition 65 (California)**

· **Chemicals known to cause cancer:**

127-18-4 | tetrachloroethylene

100-41-4 | ethylbenzene

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

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· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

127-18-4	tetrachloroethylene	L
1330-20-7	xylene	I
100-41-4	ethylbenzene	D

· **IARC (International Agency for Research on Cancer):**

127-18-4	tetrachloroethylene	2A
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B

· **TLV (Threshold Limit Value established by ACGIH):**

127-18-4	tetrachloroethylene	A3
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

127-18-4 tetrachloroethylene

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

100-41-4 ethylbenzene

· **Canadian Ingredient Disclosure list (limit 1%):**

127-18-4 tetrachloroethylene

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of preparation / last revision** 11/06/2015 / -

· **Abbreviations and acronyms:**

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas: Gases under pressure: Compressed gas

Press. Gas: Gases under pressure: Liquefied gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Carc. 1B: Carcinogenicity, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

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Trade name: Sheila Shine (Aerosol)

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



Product Name: WITE-OUT® Brand
Correction Fluids (Super Smooth, Extra
Coverage, and Quick Dry)

SAFETY DATA SHEET

Date Prepared:
November 13, 2015 Version 11

SECTION 1 – IDENTIFICATION	
Product Name:	WITE-OUT® Brand Correction Fluids (Super Smooth, Extra Coverage, and Quick Dry)
Synonyms:	Different Products: 1- Quick Dry WQ5- White 2- Quick Dry WQ5- Buff 3- Extra Coverage WE4 4- Super Smooth WS4 5- Cover-It
Product Use:	Correction fluid
Manufacturer/ Vendor Information:	Manufactured for/Distributed by: BIC Corporation One BIC Way, Suite 1 Shelton, CT 06484 USA (203) 783-2000 Emergency Telephone Number: (203) 783-2412 Supplier Information: BIC Inc. 155 Oakdale Road Downsview, Ontario M3N 1W2 CANADA (416) 742-9173 x288 (Business hours)
SDS Contact:	Product Safety
Telephone Number:	(203) 783-2412

SECTION 2 – HAZARD(S) IDENTIFICATION	
This product is a consumer product and is not subject to the requirements of OSHA HCS/HazCom 2012 nor Health Canada Hazardous Products Regulations (WHMIS 2015). Nonetheless, this SDS is provided for the information of product users.	
Classification in Accordance with 29 CFR § 1910.1200 and WHMIS 2015:	Flammable Liquid – Category 2 Specific Target Organ Toxicity – Single Exposure (STOT-SE) – Category 3 (narcotic effects) Aspiration Hazard – Category 1
Signal Word:	Danger
Hazard Statements:	Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.
Symbols:	

Precautionary Statements:	<p><u>Prevention:</u> Avoid breathing vapors. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.</p> <p><u>Response:</u> Do NOT induce vomiting If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If swallowed: Immediately call a poison center/doctor.</p> <p><u>Storage:</u> Store in a well-ventilated place. Keep cool. Store locked up.</p> <p><u>Disposal:</u> Dispose of contents/container in accordance with local / regional / national / international regulations.</p> <p>9% of the mixture consists of ingredients of unknown acute dermal toxicity</p>
Any Hazards Not Otherwise Classified – Physical Hazards:	None
Any Hazards Not Otherwise Classified – Health Hazards:	None
Consumer Label on the Product:	CAUTION: FLAMMABLE Keep away from fire or flame. Keep away from children. Do not swallow or inhale. WARNING: Intentional misuse by deliberately concentrating and inhaling contents can be harmful or fatal.
For more information refer to Section 11 of this SDS	

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS

Preparation:		
CAS No.	Chemical Name	% by Weight
13463-67-7	Titanium dioxide	30-60%
64741-66-8	Naphtha (petroleum), light alkylate	Products 1-2: 7-13% Products 3-4: 15-40%
64742-49-0	Naphtha, petroleum, hydrotreated light	Products 1-3: 15-40% Product 4: 7-13%

SECTION 4 – FIRST-AID MEASURES	
Eyes:	Quickly and gently blot or brush away chemical. Flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the chemical is removed. If irritation occurs, obtain medical advice.
Skin:	If irritation does occur, flush with lukewarm gently flowing water for 5 minutes or until chemical is removed. Remove contaminated clothing, shoes, and leather goods (e.g., watchbands) as the product is highly flammable. If irritation occurs, obtain medical advice.
Inhalation:	If breathing has stopped, trained personnel should begin artificial respiration (AR) or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Immediately transport victim to an emergency care facility.
Ingestion:	DO NOT INDUCE VOMITING. Aspiration hazard if swallowed. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Transport victim to an emergency care facility if necessary
Most Important Symptoms and Effects, Both Acute and Delayed	
Symptoms/Injuries after Inhalation:	Deliberately concentrating and inhaling this product can lead to Central Nervous System (CNS) effects, unconsciousness and/or death. Product may be irritating if inhaled accidentally.
Symptoms/Injuries after Skin Contact:	Short-term exposure is expected to cause only slight irritation, if any.
Symptoms/Injuries after Eye Contact:	Mild eye irritation may occur if product comes in contact with eyes.
Symptoms/Injuries after Ingestion:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Indication of Any Immediate Medical Attention and Special Treatment Needed	
Treat symptomatically.	

SECTION 5 – FIRE-FIGHTING MEASURES	
Extinguishing Media:	Suitable: CO ₂ , Foam, Dry Chemical Unsuitable: Water stream or jet
Conditions of Flammability:	HIGHLY FLAMMABLE. Can release vapors that form flammable mixtures at or above the flash point.
Hazardous Combustion Products:	Carbon monoxide, carbon dioxide, reactive hydrocarbons, carbonyl compounds, smoke and irritating vapors may be formed on combustion.
Special Protective Equipment and Precautions for Fire-fighters:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES	
Personal Precautions, Protective Equipment and Emergency Procedures:	Highly flammable liquid. Ventilate area.
Methods and Materials for Containment and Cleaning Up:	Avoid contaminating sewers, streams, rivers and other watercourses with spilled material absorb with inert absorbent material (do not use combustible materials like cloth or paper) and dispose of properly.

SECTION 7 – HANDLING AND STORAGE	
Handling	
Precautions for Safe Handling:	Highly flammable liquid. Avoid contact with skin and eyes. Wash thoroughly after handling this product if in contact with skin. Avoid contact with heat, and sources of ignition.
Storage	
Conditions for Safe Storage, including any Incompatibilities:	Store in a cool, dry, well-ventilated area. Store away from incompatible and reactive materials (See Section 10). Keep container tightly closed. Store away from heat and sources of ignition.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION		
Control Parameters		
Chemical Name	CAS Number	Exposure Limits
Titanium dioxide	13463-67-7	ACGIH: (TLV-TWA) 10 mg/m ³ OSHA: (PEL-TWA) 15 mg/m ³
Naphtha, petroleum, hydrotreated light	64742-49-0	ACGIH: (TLV-TWA) 400 ppm ACGIH: (TLV-STEL) 500 ppm OSHA: (PEL-TWA) 500 ppm (Recommended based on a similar product – Heptane)
The selection of personal protective equipment varies, depending upon the conditions of use. Use equipment appropriate to your particular use pattern.		
Engineering Controls:	For normal application, special ventilation is not necessary.	
Eye Protection:	Not required under normal use conditions.	
Hand Protection:	None necessary under normal use conditions.	
Skin and Body Protection:	None necessary under normal use conditions.	
Respiratory Protection:	None necessary under normal use conditions.	

ACGIH = American Conference of Governmental Industrial Hygienists
 OSHA = Occupational Safety & Health Administration
 PEL = Permissible Exposure Limit
 TLV = Threshold Limit Values
 TWA = Time-Weighted Average
 STEL = Short-Term Exposure Limit

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES	
Appearance & Physical State:	Free flowing white liquid
Odor:	Petroleum solvent odor
Odor Threshold:	Not Available
pH:	Not Available
Melting Point/Freezing Point:	-22.2 to -13.3°C (-8 to +8°F)
Initial Boiling Point and Boiling Range:	95.6-113.9°C (204-237°F)
Flash Point:	WQ5: -10°C (14°F) (ASTM D3828-05) WE4: -5°C (23°F) WS4: 0.9°C (33.6°F)
Evaporation Rate:	0.89-1.08 (Butyl Acetate=1)
Flammability:	Highly flammable vapors

Flammability Limits in Air Lower (LFL): Upper (UFL):	1.7% by volume 12.3 % by volume
Vapor Pressure:	26-49 mmHg at 20°C
Vapor Density:	3.4-4.0 (estimated) (air =1)
Density/Specific Gravity:	1.25 (Water =1)
Solubility in Water:	0.1g/L at 20°C
n-Octanol/ Water Partition Coefficient	Not Available
Auto-ignition Temperature:	~246.1°C (based on petroleum solvent - approximate)
Decomposition Temperature:	Not Available
Viscosity:	Not Available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:	This product is stable under the normal conditions of use.
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Not expected to undergo hazardous polymerization.
Conditions to Avoid:	Avoid heat sources, sparks or flames and static discharge.
Incompatible Materials:	Avoid strong oxidizing or reducing agents, strong acids and strong bases.
Hazardous Decomposition Products:	Not expected to undergo decomposition.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Entry:	Skin contact, Inhalation, Eye contact, Skin Absorption, Ingestion		
Acute Toxicity			
<i>Product data:</i>			
<u>Route & Species</u>	<u>Value</u>		
Oral; rat, LD ₅₀	>15 g/kg		
Inhalation; rat LC ₅₀	90-169.4 mg/L/1H		
Dermal, ATE	>5 g/kg		
ATE = acute toxicity estimate			
<i>Ingredient data:</i>			
<u>Chemical</u>	<u>CAS#</u>	<u>Route & Species</u>	<u>Value</u>
Titanium dioxide	13463-67-7	Dermal; rabbit, LD ₅₀	>10,000 mg/kg
Naphtha (petroleum), light alkylate	64741-66-8	Dermal; rabbit, LD ₅₀	>2,000 mg/kg
Naphtha petroleum, hydrotreated light	64742-49-0	Dermal; rabbit, LD ₅₀	>3,160 mg/kg
Eye Irritation:	Not expected to be an eye irritant based on the results of an <i>in vitro</i> ocular tolerance test.		
Skin Irritation:	Not expected to be a primary skin irritant based on the results of a human skin patch test.		

Ingestion Effects:	Ingestion of this product may cause CNS depression, symptoms of which may include; weakness, dizziness, slurred speech, drowsiness, unconsciousness and in cases of severe overexposure; coma and death. Ingestion of this product may lead to aspiration of the liquid, especially if vomiting occurs. This may result in chemical pneumonitis (inflammation of the lungs) and/or pulmonary edema (an accumulation of fluid in the lungs).
Inhalation Effects:	Deliberately concentrating and inhaling this product can lead to CNS effects, unconsciousness and/or death.
Skin Sensitization:	Contact with this product is not expected to cause skin sensitization, based upon the available data and the known hazards of the components.
Respiratory Tract Sensitization:	Contact with this product is not expected to cause respiratory tract sensitization, based upon the available data and the known hazards of the components.
Chronic Toxicity	
Carcinogenicity:	Based on the known hazards of the components, the product is not expected to pose a carcinogenicity risk.
Mutagenicity:	This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause mutagenicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a mutagen.
Reproductive Toxicity:	This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause reproductive toxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a reproductive toxin.
Teratogenicity/Embryotoxicity:	This product is not known to contain any components at $\geq 0.1\%$ that have been shown to cause teratogenicity and/or embryotoxicity. Therefore, based upon the available data and the known hazards of the components, this product is not expected to be a teratogen/embryotoxin.
Other Chronic Effects:	Repeated and chronic product abuse such as deliberately concentrating and inhaling this product can result in adverse effects to the CNS such as drowsiness, dizziness and potentially serious long-term health effects.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity:	Not Available
Persistence/ Degradability:	Not Available
Bioaccumulation:	Not Available
Mobility in Soil:	Not Available
Other Adverse Effects:	Not Available

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method:	In accordance with local, provincial/territorial or federal guidelines and regulations.
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SECTION 14 – TRANSPORT INFORMATION				
	Shipping name	UN Number	Hazard Class	PG
DOT (US)	For domestic transport by road, rail and cargo: Proper Shipping Name: Coating solution Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity	UN1139	3	II
TDGR	For domestic transport by road, rail and cargo: Proper Shipping Name: Coating solution Product packaged in containers less than 5 liters can be shipped as Limited quantity or Consumer Commodity	UN1139	3	II
IMDG	For International transport by cargo vessel, road, rail: Proper shipping name: Coating Solution NOTE: Shipped as Limited Quantity	UN1139	3	II
IATA	For international transport by Air: Proper Shipping Name: Consumer Commodity	ID8000	9	

DOT = Department of Transport

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

TDGR = Transport of Dangerous Goods Regulations (Canada)

SECTION 15 – REGULATORY INFORMATION

OSHA Classification: OSHA Hazard Communication Standard (29 CFR §1910.1200)

This product has been classified in accordance with the hazard criteria of the OSHA's HCS/HazCom 2012.

Health Canada Classification: Hazardous Products Regulations (WHMIS 2015)

This product has been classified in accordance with the hazard criteria of the Health Canada's Hazardous Products Regulations (WHMIS 2015).

	Hazard Ratings	
	NPCA/HMIS	NFPA 704
Health:	1	1
Flammability:	3	3
Reactivity:	0	0

NPCA/HMIS – National Paint and Coatings Association/ Hazardous Materials Identification System
NFPA – National Fire Protection Association

All the ingredients in the product are listed on the TSCA inventory. This product requires no labeling as per the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). None of the ingredients in this product are Class I or Class II ozone depleters. None of the ingredients in this product are listed as an Extremely Hazardous Substance under the RCRA, SARA 302/313, Clean Air Act, and Clean Water Act.

Regulated under SARA 311/312 Acute: no Chronic: no Fire: no

SECTION 16 – OTHER INFORMATION

Latest Revision Date: November 13, 2015

Supersedes Date: October 16, 2015

Disclaimer: The information given is based on data currently available to us and is believed to be correct. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. No responsibility is assumed for injury or damage from the use of the products described herein.

MATERIAL SAFETY DATA SHEET
BISSELL INCORPORATED
PRINT DATE: June 6, 2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	WOOLITE Fabric & Upholstery Cleaner
Product No.	0835 / 04034F / 04035F /
Chemical Formula:	Mixture

MANUFACTURER:	24-Hour Emergency Phone Number:
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BISSELL INC.	1-866-303-6951
P.O. Box 1888	
Grand Rapids, MI 49501	
(616) 453-4451	

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>Percent</u>	<u>Exposure Limits TWA</u>	<u>CAS Number</u>
Isobutane	<10%	TLV 800ppm	75 - 28 - 5

Also contains surfactants, acrylate copolymer, fragrance and water.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Contents under pressure.

Potential Health Effects:

Eye: Eye irritant. Avoid contact with eyes.

Skin: Prolonged contact with skin may cause mild to moderate irritation.

Inhalation: Inhalation is not expected route of exposure. Inhalation of product mist or spray may cause respiratory irritation.

Ingestion: Ingestion is not an expected route of exposure. Ingestion of small amount may cause gastrointestinal irritation, and more serious effects are possible if large quantities of product are swallowed

MATERIAL SAFETY DATA SHEET
BISSELL INCORPORATED
PRINT DATE: June 6, 2007

WOOLITE Fabric & Upholstery Cleaner

4. FIRST AID MEASURES

EYE:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention, if irritation persists
SKIN:	Wash skin with water. Remove contaminated clothing.
INGESTION:	If swallowed, DO NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
INHALATION:	Remove to fresh air. If not breathing, give artificial respiration. Get Medical Attention

5. FIRE FIGHTING MEASURES

FLASH POINT:	Propellant < 0°F
FLAMMABILITY:	Not Determined
EXTINGUISHING MEDIA:	Dry Chemical, Foam or CO2
FIRE and EXPLOSION HAZARDS	Content under pressure. May Burst if exposed to temperature above 120°F (48.8°C). Propellant is extremely flammable and heavier than air. Vapors may travel along the ground and ignite at point remote from source.
FIRE FIGHTING EQUIPMENT:	Fire Fighters should wear self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS:	Absorb and wipe up or rinse away with water.
LARGE SPILL:	Contain spill liquid with sand or earth. Place in a disposal container for disposal. After removal, flush area thoroughly with water.
WASTE DISPOSAL:	Follow all Local, State and Federal Regulations for large spills.

7. HANDLING AND STORAGE

HANDLING:	Use only as directed, avoid contact with eyes. Use with adequate ventilation. Wash hands before eating.
STORAGE:	Contents under pressure. Do Not expose to heat or store above 120°F (48.8°C).

MATERIAL SAFETY DATA SHEET
BISSELL INCORPORATED
PRINT DATE: June 6, 2007

WOOLITE Fabric & Upholstery Cleaner

8. PERSONAL PROTECTION

RESPIRATORY PROTECTION:	Not Required
PROTECTIVE GLOVES:	Not Required
EYE PROTECTION:	Not Required
VENTILATION:	Normal

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White Foam
ODOR:	Fresh Clean Scent
BOILING POINT, 760mm Hg:	212°F
VAPOR PRESSURE:	36-40 psi (Propellent)
VAPOR DENSITY:	Is heavier than air
SOLUBILITY IN WATER:	Complete
SPECIFIC GRAVITY:	1.0
pH:	8.8 – 9.8

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:	STABLE
CONDITIONS TO AVOID:	Temperature above 120°F (48.8°C). Do Not puncture or incinerate containers.
INCOMPATIBILITY:	Avoid Contact with strong oxidizing agents.
HAZARDOUS DECOMPOSITION:	None Known
HAZARDOUS POLYMERIZATION:	Will Not Occur

11. TOXICOLOGICAL INFORMATION

INGESTION:	Has not been tested.
INHALATION:	Has not been tested
SKIN:	Has not been tested

MATERIAL SAFETY DATA SHEET
BISSELL INCORPORATED
PRINT DATE: June 6, 2007

WOOLITE Fabric & Upholstery Cleaner

12. OTHER INFORMATION

VOLATILE ORGANIC COMPOUNDS (VOC) INFORMATION:

Percentage Emissions: 6.0%

HAZARD RATING: Fire: 0 Toxicity: 0 Reactivity: 0

HAZARD RATING SCALE:

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Transportation:

DOT Labeling: NONE
DOT Proper Shipping Name: ORM-D
DOT Hazard Class: NONE
U.S. Surface Freight Classification: Cleaning compound, level -1 aerosol.

Notice:

The information herein is presented in good faith and believed to be accurate as of the effective date shown below. However, no warranty, expressed or implied, is given. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities comply with federal, state or Provincial laws.

Effective Date: June 6, 2007
Supersedes: March 20, 2005
Prepared by: Jesse J. Williams

This MSDS has been revised in the following section(s): **GENERAL UPDATE**

JJW/sth