

Safety Data Sheets

Sheriff - Range House



CCSO, Bisbee

11/25/2019



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Binder: CCSO, Bisbee - Sheriff - Range House

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SAFETY DATA SHEET



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

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 750060
- PRODUCT NAME: **1 QT: Wood-Luster All-Surface & Furniture Polish**

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

- RECOMMENDED USE: Protectant for vinyl, leather, plastic and rubber products.
- IDENTIFIED USERS: For sale to, use and storage by service persons only.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/
SUPPLIER: **WAXIE Sanitary Supply**
- ADDRESS: 9353 Waxie Way; San Diego, CA 92123-1036
- BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

1.4 OTHER PERTINENT INFORMATION

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

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

OSHA/HCS Status

Classification of the Substance or Mixture Serious eye damage/Irritation (Category 2B); Chronic aquatic toxicity (Category 5)

2.2 LABEL ELEMENTS

Hazard Pictograms	Not applicable.
Signal Word	WARNING.
Hazard Statements	Irritating to the eyes. May cause long lasting harmful effects to aquatic life.
Precautionary Statements	
Prevention	Keep out of reach of children. Avoid release to the environment. Wash hands thoroughly after handling.
Response	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.
Storage	None specified. See section 7 for details.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 2: HAZARD IDENTIFICATION (Continued)

2.3 OTHER PERTINENT HAZARDS NOT OTHERWISE CLASSIFIED

- **OTHER POTENTIAL HEALTH EFFECTS:** Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

COMPONENT	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w)
Polydimethylsiloxane	63148-62-9	Acute aquatic toxicity (Category 2); Chronic aquatic toxicity (Category 2)	Proprietary ¹
Water and other components less than 1% in concentration within this solution. The remaining components of this product are not classified as hazardous in their existing concentrations			Balance

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED

- Eye Contact** Flush with copious amounts of water. "Roll" eyes during flush. Check for and remove contact lenses. Seek medical attention if irritation persists.
- Skin Contact** Not applicable: Product for use on skin.
- Inhalation** Obtain fresh air. Blow nose.
- Ingestion** If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- **ACUTE HEALTH EFFECTS:**

AREA EXPOSED

- Eye Contact** May cause eye irritation.
- Skin Contact** Prolonged contact may be mildly irritating.
- Inhalation** May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.
- Ingestion** May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.

- **CHRONIC HEALTH EFFECTS:** Not applicable.

- **TARGET ORGANS:** Not applicable.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

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

¹ The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

SECTION 5: FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

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

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- **NFPA FLAMMABILITY CLASSIFICATION:**

NFPA Rating



NFPA Classification

Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

Decomposition Products

Carbon dioxide, carbon monoxide, silicon compounds and irritating vapors.

Explosion Sensitivity to Mechanical Impact

Not applicable.

Explosion Sensitivity to Static Discharge

Not applicable.

5.3 ADVICE FOR FIREFIGHTERS

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses should be worn when cleaning-up spills, to avoid prolonged contact and splash protection. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incident releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a soap solution, all items that come in contact with the solution can be returned to service after rinsing.

6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of product (more than 4 gallons) into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material.

6.4 REFERENCES TO OTHER SECTIONS

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

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Hygiene Practices	Keep out of reach of children. Follow good chemical hygiene practices. Avoid inhalation of mists and sprays. Avoid contact with eyes. Clean up spilled product immediately.
Handling Practices	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage Practices	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.
Incompatibilities	See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

- **AIRBORNE EXPOSURE LIMITS:** Not established.
- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** Not established.

8.2 EXPOSURE CONTROLS

Engineering Controls	Use in well-ventilated environment.
Respiratory Protection	None needed in normal circumstances of use.
Hand Protection	Neoprene, PVC, or butyl gloves are recommended during spill response or if prolonged contact is anticipated. Ensure gloves are intact prior to use.
Eye Protection	Safety glasses.
Body Protection	Not applicable.

8.3 PERSONAL PROTECTION SYMBOLS

Hand Protection
(Prolonged Contact/
Spill Response)



Eye Protection



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque, white liquid.
Odor	Lemon.
Odor Threshold	Not determined.
pH	6.0-8.0
Melting Point/Freezing Point	Approx. 0°C (32 °F).
Initial Boiling Point/Boiling Range	> 99°C (210 °F).
Flash Point	Not applicable.
Evaporation Rate (Water = 1)	Not determined.
Flammability	Not applicable.
Upper/Lower Explosive Limits	Not applicable.
Vapor Pressure	Not determined.
Vapor Density	Not determined.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Relative Density (Density)	Approx. 1.01 (8.42 lb/gallon).
Solubility	Completely soluble in water.
Partition Coefficient/n-octanol/water	Not determined.
Autoignition Temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	>2000 cps.

9.2 OTHER INFORMATION

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

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

- Not reactive under typical conditions of use or handling.

10.2 CHEMICAL STABILITY

- Normally stable under standard temperatures and pressures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

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

10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals.

10.5 INCOMPATIBLE MATERIALS

- Strong oxidizing agents.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition of this product include oxides of carbon (i.e., carbon monoxide and carbon dioxide) as well as silicon compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- **ACUTE TOXICITY:**
 - **TOXICOLOGY DATA:** The following data are available for components of this product:
 - POLYDIMETHYLSILOXANE**
LD₅₀ (Oral, Rat) > 17,000 mg/kg
LD₅₀ (Oral, Rabbit) > 2,000 mg/kg
LC (Inhalation, Rabbit) = 978,000 mg/m³/7.5 hours
 - **DEGREE OF IRRITATION:** Irritating to the eyes. See Section 4 (First Aid Measures) for more details. Specific data for components are as follows
 - POLYDIMETHYLSILOXANE**
Skin, Rabbit = 24 hours/Mild Irritant
Eyes, Rabbit = Mild Irritant /24 hours

SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

- **SENSITIZATION:** This product is not reported to have skin or respiratory sensitization effects.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details.

Eyes	Irritates the eyes.
Skin	No adverse effects anticipated.
Inhalation	May cause mild respiratory tract irritation if mists are inhaled.
Ingestion	May cause gastrointestinal system irritation, especially if large quantities are ingested.
- **CHRONIC TOXICITY:**
 - **CARCINOGENICITY STATUS:** Not applicable.
 - **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
 - **MUTAGENIC EFFECTS:** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
 - **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
 - **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
 - **ASPIRATION HAZARD:** Not applicable.
- **OTHER INFORMATION:**
 - **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
 - **ADDITIONAL TOXICOLOGY:** Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

12.1 TOXICITY

- Based on available data, this product is not anticipated to be harmful or fatal to contaminated terrestrial or aquatic plants or animals.

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation. Polydimethylsiloxane in soils undergo siloxane bond redistribution and hydrolysis, resulting in the formation

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

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

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

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

13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable.

SECTION 14: TRANSPORT INFORMATION

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:

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

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

14.2 ENVIRONMENTAL HAZARDS

- None described, as related to transportation.

14.3 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.4 TRANSPORT IN BULK

- Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- OTHER IMPORTANT U.S. REGULATIONS**

- U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: No; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No.
- U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.
- U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
- CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.

- INTERNATIONAL REGULATIONS**

- CANADIAN REGULATORY STATUS:** The **PRODUCT as SOLD** is not classified as hazardous under Canadian Controlled Products regulations (SOR-88-66).
 - This SDS contains all the information required by the CPR.
- CANADIAN DSL/NDSL INVENTORY STATUS:** The listed components of this product are on the DSL/NDSL Inventory.
- CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this product are not on the CEPA Priorities Substances Lists.
- GERMAN WATER HAZARD CLASSIFICATION:** 2 (hazard to waters).

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- DATE OF REVISION:** April 20, 2015
- SUPERCEDES:** September 23, 2014
- CHANGE INDICATED:** Update of OSHA Hazard Communication Standard (29 CFR 1910.1200).

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- SAX – Dangerous Properties of Industrial Materials
- RTECS – Registry of Effects of Toxic Chemicals
- TOXNET – <http://toxnet.nlm.nih.gov/>

SECTION 16: OTHER INFORMATION (Continued)

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD

Health	0
Flammability	0
Physical Hazard	0
Protective Equipment	A/B

HMIS Personal Protective Equipment Rating: Occupational Use situations: A - Safety glasses; B – add gloves (Spill Response, prolonged contact).

16.4 DISCLAIMER

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

16.5 ABBREVIATIONS AND ACRONYMS

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

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

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

SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15 minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health Concentrations. *Note:* In July 1992, a court ruling vacated the more protective PELs set by OSHA in 1989. Because OSHA may enforce the more protective levels under the "general duty clause", both the current and vacated levels are presented in this document. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit. EL: Exposure Limit (United Kingdom). Federal Republic of Germany (DFG) Maximum Concentration Values in the Workplace (MAKS)

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

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

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

SECTION 12: EC50: Effect Concentration (on 50% of study group); BOD: Biological Oxygen Demand.

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

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

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



Identity # 410045SA

Name #110 HD DEGREASER

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way Emergency Phone (Chem-Tel) 1-(800) 255-3924

City - San Diego State - CA 92123-1036 Phone - (800) 995-4466

Date Prepared- 4/6/2005

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
2-Butoxy Ethanol *	111762	25PPM	25PPM	
Sodium Metasilicate Pentahydrate	6834920	15MG/M3	10MG/M3	
Sodium Hydroxide	1310732	2MG/M3	2MG/M3	

Note: * A SARA 313 Chemical

VOC Content- 79.5 g/L

Section 3 - Physical/Chemical Characteristics

Boiling Point- >212 F

Vapor Pressure - Not Tested

Vapor Density - Not Tested

Solubility In Water- 100%

Appearance and Odor- BLUE-GREEN/SOLVENT ODOR

pH- 12.5-14.0

Specific Gravity- 1.060

Melting Point - Not Tested

Evaporation Rate - Not Tested

Section 4 - Fire and Explosion Hazard Data

Flash Point- None

Flammable Limits - Not Tested

LEL- None

UEL- None

DOT# NONE

NFPA Hazard Rating - H 3 F 0 R 0 S 0 HMIS Hazard Rating - H 3 F 0 R 0
 (0- Least, 4- Extreme)

Extinguishing Media- CO2, DRY FOAM

Special Fire Fighting Procedures NONE

Unusual Fire and Explosion Hazards- NONE

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- Strong Oxidizers

Hazardous Decomposition or Byproducts- CO, CO2

Hazardous Polymerization- NONE

Conditions to Avoid- None

Section 6 - Health Hazard Data

Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

410045SA

Signs and symptoms of over exposure:

Eyes - Burning Sensation

Skin- Irritation

Ingestion-Burning Irritation

Inhalation- May Cause Dizziness/Headaches

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

Emergency and First Aid Procedures

Eyes - Flush With Water For 15 Minutes. If Irritation Persists, Call Physician.

Skin- Wash Off With Soap & Water, If Irritation Persists, Call Physician

Ingestion- Drink Large Amounts of Water, Call Physician

Inhalation- Get Person to Fresh Air If Unconscious, Call Physician

Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134, is required.

Ventilation Local Exhaust - If Available Special - None
 Mechanical - If Available Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion

SAFETY DATA SHEET



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

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 320100
- PRODUCT NAME: **3 L: 200 General Purpose Cleaner**

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

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

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

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

1.4 OTHER PERTINENT INFORMATION

- This product is sold and used in relatively small volumes. This SDS has been developed to address safety concerns affecting small volume handling situations and those involving warehouses and workplaces where large numbers of these items are stored or distributed.
- The relevant hazard and safety data are specified for both the **Product as SOLD** and **Product at USE DILUTION**, where appropriate.
- .

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

OSHA/HCS Status

Classification of the Substance or Mixture

Product as SOLD

Acute Toxicity (Oral, Category 4)
Eye Damage/Irritation (Category 2A)
Skin Corrosion/Irritation (Category 3)

Product at USE DILUTION

Acute Toxicity (Oral, Category 5)
Eye Damage/Irritation (Category 2B)

2.2 LABEL ELEMENTS:

ELEMENT

Hazard Pictograms

Product as SOLD



WARNING.

Harmful if swallowed.
Causes serious eye irritation.
Causes mild skin irritation.

Product at USE DILUTION

Not Applicable

WARNING.

May be harmful if swallowed.
Causes eye irritation.

SECTION 2: HAZARD IDENTIFICATION (Continued)

Precautionary Statements

Prevention

Keep out of reach of children. Wear eye/face protection and gloves. Wash hands thoroughly after handling.

Keep out of reach of children. Wash hands thoroughly after handling.

Response

IF SWALLOWED: Rinse mouth. Call a POISON CENTER/Physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician. IF SKIN IRRITATION OCCURS: Get medical advice/attention.

Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.

Precautionary Statements

Storage

Not established; follow guidelines in section 7.

Not established; follow guidelines in section 7.

Disposal

Dispose of contents/container in accordance with local, regional, national, and inter-national regulations.

Not established; follow guidelines in section 13.

2.3 OTHER PERTINENT HAZARDS NOT OTHERWISE CLASSIFIED

- Not applicable.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

CHEMICAL	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR CHEMICAL	% (w/w)
Potassium Pyrophosphate	7320-34-5	Skin irritation (Category 2); Eye irritation (Category 2A), Specific target organ toxicity - single exposure (Category 3, Respiratory system)	Proprietary ¹
Ethylenediamine tetraacetic acid, tetrasodium salt	64-02-8	Acute toxicity, Oral (Category 4), Serious eye damage/Irritation (Category 1)	Proprietary
Water and other components less than 1% in concentration within this solution. The remaining components of this product are not classified as hazardous in their existing concentrations.			Balance

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED

Product as SOLD

Product at USE DILUTION

Eye Contact

Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Check for and remove contact lenses. Seek medical attention if irritation persists.

Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Check for and remove contact lenses. Seek medical attention if irritation persists.

Skin Contact

Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.

Flush area with warm, running water for several minutes.

¹ The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

SECTION 4: FIRST AID MEASURES (Continued)

Inhalation	Obtain fresh air.	Obtain fresh air.
Ingestion	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- ACUTE HEALTH EFFECTS:**

<u>AREA EXPOSED</u>	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Eye Contact	Can cause serious eye irritation, depending on the duration of skin contact.	May cause eye irritation, depending on the duration of skin contact.
Skin Contact	Prolonged contact has the potential to be mildly irritating.	No adverse effects anticipated.
Inhalation	May cause respiratory tract irritation; symptoms may include coughing and sneezing.	May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.
Ingestion	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting.	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting.

- CHRONIC HEALTH EFFECTS:**

<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
None reported.	None reported.

- TARGET ORGANS:**

<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Skin, eyes.	None reported.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

The following information is for both **Product AS SOLD** and **Product at USE DILUTION**.

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

SECTION 5: FIREFIGHTING MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

5.1 EXTINGUISHING MEDIA

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

SECTION 5: FIREFIGHTING MEASURES (Continued)

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- **NFPA FLAMMABILITY CLASSIFICATION:**

Classification

Product as SOLD

Product at USE DILUTION

NFPA Rating



NFPA Classification

Not flammable.

Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

Decomposition Products

Carbon dioxide, carbon monoxide, sodium and phosphorus compounds, and irritating vapors.

Explosion Sensitivity to Mechanical Impact

Not applicable.

Explosion Sensitivity to Static Discharge

Not applicable.

5.3 ADVICE FOR FIREFIGHTERS

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incident chemical releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a cleaning agent, all items that come in contact with the solution can be returned to service after rinsing.

6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of product (more than 4 gallons) into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material.

6.4 REFERENCES TO OTHER SECTIONS

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

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Hygiene Practices	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
Handling Practices	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

SECTION 7: HANDLING AND STORAGE (Continued)

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Storage Practices	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals.
Incompatibilities	See Section 10 (Stability and Reactivity).	See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS






- **AIRBORNE EXPOSURE LIMITS:** Not established.
- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** Not established.

8.2 EXPOSURE CONTROLS

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Engineering Controls	Use in well-ventilated environment.	Use in well-ventilated environment.
Respiratory Protection	None needed in normal circumstances of use.	None needed in normal circumstances of use.
Hand Protection	Neoprene, PVC, or butyl gloves are recommended. Ensure gloves are intact prior to use.	Standard chemical-resistant gloves used in janitorial work are recommended.
Eye Protection	Safety glasses.	Safety glasses.
Body Protection	Standard protection used in janitorial service. Use rubber apron, if excessive splashes or sprays are anticipated.	Standard protection used in janitorial service.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

8.3 PERSONAL PROTECTION SYMBOLS

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Hand Protection		
Eye Protection		
Body Protection.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pink liquid.	Light pink liquid.
Odor	Floral.	Floral.
Odor Threshold	Not determined.	Not determined.
pH	9.5 - 11	7.0
Melting Point/Freezing Point	Not determined.	Approx. 0°C (32 °F).
Initial Boiling Point/Boiling Range	> 99°C (210 °F).	Approximately 100°C (212°F).
Flash Point	Not applicable.	Not applicable.
Evaporation Rate (Water = 1)	Approx. 1.0.	Approx. 1.0.
Flammability	Not applicable.	Not applicable.
Upper/Lower Explosive Limits	Not applicable.	Not applicable.
Vapor Pressure	Not determined.	Not determined.
Vapor Density	Not determined.	Not determined.
Relative Density (Density)	1.046 (8.72 lbs/gal)	Approx. 1.0.
Solubility	Completely soluble in water.	Completely soluble in water.
Partition Coefficient/n-octanol/water	Not determined.	Not determined.
Autoignition Temperature	Not applicable.	Not applicable.
Decomposition Temperature	Not determined.	Not determined.
Viscosity	Not determined.	Not determined.

9.2 OTHER INFORMATION

- VOC (less water & exempt): 5 g/L.
- WEIGHT% VOC: 0.5%.

SECTION 10: STABILITY AND REACTIVITY

10.1 REACTIVITY

- Not reactive under typical conditions of use or handling.

10.2 CHEMICAL STABILITY

- Normally stable under standard temperatures and pressures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

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

10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals.

SECTION 10: STABILITY AND REACTIVITY (Continued)

10.5 INCOMPATIBLE MATERIALS

- Strong oxidizing agents, water reactive materials, cationic agents

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include oxides of carbon (i.e., carbon monoxide and carbon dioxide) as well as phosphorus and sodium compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- **ACUTE TOXICITY:**

- **PRODUCT TOXICITY DATA:**

- Acute Toxicity Estimate (oral) > 5000 mg/kg
- Acute Toxicity Estimate (dermal) > 5000 mg/kg

- **COMPONENT TOXICITY DATA:** The following data are available for components of this product.

ETHYLENEDIAMINE TETRAACETIC ACID,
TETRASODIUM SALT

LD₅₀ (oral, rat) = 630-1260 mg/kg

POTASSIUM PYROPHOSPHATE

LD₅₀ (Dermal, Rabbit) > 4,640 mg/kg
LD₅₀ (Oral, Rat) = 4,640 mg/kg

- **DEGREE OF IRRITATION:** See Section 4 (First Aid Measures) for more details.
- **SENSITIZATION:** The components of this product are not reported to have skin or respiratory sensitization effects,
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First Aid Measures) for additional details.

Eyes	Seriously irritating the eyes.
Skin	Mildly to moderately irritating, depending on duration of exposure.
Inhalation	May cause mild respiratory tract irritation if mists are inhaled.
Ingestion	May cause gastrointestinal system irritation.

- **CHRONIC TOXICITY:**

- **CARCINOGENICITY STATUS:** Not established.
- **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure. The following reproductive toxicity data are available for components of this product:
- **MUTAGENIC EFFECTS:** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

- **OTHER INFORMATION:**

- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

12.1 TOXICITY

- Based on available data, this product may be harmful to contaminated terrestrial or aquatic plants or animals, depending on the volume released into the environment.

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

- It is to be expected this product will have some mobility in soil.

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

13.1 WASTE TREATMENT METHODS

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

13.2 DISPOSAL CONSIDERATIONS

- EPA RCRA WASTE CODE:** Not applicable.

SECTION 14: TRANSPORT INFORMATION

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

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

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

14.2 ENVIRONMENTAL HAZARDS

- None described, as related to transportation.

14.3 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.4 TRANSPORT IN BULK

- Not applicable.

SECTION 15: REGULATORY INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

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

- **OTHER IMPORTANT U.S. REGULATIONS**
 - **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
 - **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.
 - **U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
 - **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.
- **INTERNATIONAL REGULATIONS**
 - **CANADIAN REGULATORY STATUS: CANADIAN REGULATORY STATUS:** The product is not classified as hazardous under Hazardous Products Regulations (SOR-2015-17).
 - **CANADIAN DSL/NDSL INVENTORY STATUS:** The listed components of this product are on the DSL/NDSL Inventory.
 - **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITY SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances Lists.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- **DATE OF REVISION:** June 4, 2018
- **SUPERCEDES:** April 27, 2017
- **CHANGE INDICATED:** Format and HMIS update; inclusion of product Acute Toxicity Estimates

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- TOXNET – <http://toxnet.nlm.nih.gov/>

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

Product as SOLD		Product at USE DILUTION	
Health	1	Health	0
Flammability	0	Flammability	0
Physical Hazard	0	Physical Hazard	0
Protective Equipment	B/C	Protective Equipment	B

HMIS Personal Protective Equipment Rating:
 Occupational Use situations: B - Safety glasses and gloves; C – add rubber apron if splashes or sprays are anticipated.

16.4 DISCLAIMER

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

SECTION 16: OTHER INFORMATION (Continued)

16.5 ABBREVIATIONS AND ACRONYMS

TODAS LAS SECCIONES: OSHA: Administración Federal de Seguridad y Salud Ocupacional de los EE. UU. WHMIS 2015: Norma para el Manejo de Materiales Peligrosos en el Lugar de Trabajo de Canadá. GHS: Sistema de Clasificación Mundialmente Armonizado de Sustancias Químicas.

SECCIÓN 3: Número de CAS: Número de Registro de resúmenes químicos, el cual es utilizado por la Sociedad Americana de Sustancias Químicas para identificar particularmente a una sustancia química.

SECCIÓN 5: NFPA: Asociación Nacional para la Protección contra Incendios. CLASIFICACIÓN DE NFPA SOBRE INFLAMABILIDAD: La NFPA utiliza el punto de inflamación (F.I.P.) y el punto de ebullición (BP) para clasificar los líquidos inflamables o combustibles. Clase IA: F.I.P. inferior a 73 °F y BP inferior a 100 °F. Clase IB: F.I.P. inferior a 73 °F y BP superior a los 100 °F. Clase IC: F.I.P. superior a 73 °F y BP superior a 100 °F. Clase II: F.I.P. superior a 100 °F e inferior a 140 °F. Clase IIIA: F.I.P. superior a 140 °F e inferior a 200 °F. Clase IIIB: F.I.P. superior a 200 °F. CALIFICACIÓN DE MATERIALES PELIGROSOS DE NFPA: Este es un sistema de calificaciones utilizado para resumir los riesgos físicos y de salud para los bomberos. 0 = Sin riesgo significativo. 1 = Riesgo leve. 2 = Riesgo moderado. 3 = Riesgo grave. 4 = Riesgo extremo.

SECCIÓN 8: NE: No establecido. ACGIH: Conferencia Americana de Higienistas Industriales del Gobierno; TWA: Promedio ponderado en el tiempo (durante un día de trabajo de 8 horas); STEL: Límite de Exposición a Corto Plazo (un promedio de 15 minutos, no más de 4 veces al día y cada exposición con diferencia de una hora como mínimo); C: Límite máximo (la concentración no debe excederse en un ambiente laboral). PEL: Límite de exposición permisible. NIOSH: Instituto Nacional de la Seguridad y Salud Laborales; REL: Límite recomendado de exposición. ppm: Partes por millón. mg/m³: Miligramos por metro cúbico. mppcf: Millones de partículas por pie cúbico. BEI: Límite de exposición biológica.

SECCIÓN 9: pH: Escala (del 0 al 14) utilizada para medir la acidez o alcalinidad de soluciones acuosas. Por ejemplo, un valor pH de 0 señala que se trata de una solución muy ácida, un pH de 7 señala que es una solución neutral, y un valor pH de 14 indica una solución extremadamente básica. Punto de inflamación: La temperatura a la cual un líquido genera suficientes vapores inflamables como para que ocurra la ignición. Temperatura de autoinflamación: La temperatura a la cual ocurre una ignición espontánea. LÍMITE EXPLOSIVO INFERIOR (LEL): La concentración mínima de vapores inflamables en el aire que pueden provocar una ignición. LÍMITE EXPLOSIVO SUPERIOR (UEL): La concentración máxima de vapores inflamables en el aire que pueden provocar una ignición. ≈: Símbolo de aproximadamente. VOC: Compuesto orgánico volátil.

SECCIÓN 11: CONDICIÓN CARCINÓGENA: NTP: Programa Nacional de Toxicología. IARC: Agencia Internacional para la Investigación del Cáncer. INFORMACIÓN DE TOXICIDAD REPRODUCTIVA: Mutágeno: Una sustancia que puede causar daños en los cromosomas de las células. Embriotoxina: Una sustancia que puede dañar el embrión en desarrollo en una mujer que sufre sobreexposición. Teratógeno: Una sustancia que puede dañar el feto en desarrollo en una mujer que sufre sobreexposición. Toxina de la reproducción: Una sustancia que puede afectar adversamente a los órganos reproductores femenino o masculino o sus funciones. DATOS DE TOXICIDAD: LD_{xx} o LC_{xx}: La Dosis letal o Concentración letal de una sustancia que resultaría mortal en un porcentaje dado (xx) de pruebas en animales expuestos por la vía designada de administración. Este valor se utiliza para conocer la toxicidad de sustancias químicas en humanos. TD_{xx} o TC_{xx}: La Dosis tóxica o Concentración tóxica de una sustancia que ocasionaría un efecto adverso en un porcentaje dado (xx) de pruebas en animales expuestos por la vía designada de administración.

SECCIÓN 12: EC50: Concentración de efecto (en el 50% del grupo de estudio); BOD: Demanda biológica de oxígeno. COD: Demanda de oxígeno químico. ThOD: Demanda teórica de oxígeno. TLM: Límite de tolerancia media.

SECCIÓN 13: RCRA: Ley para la Conservación y Recuperación de Recursos. Las normas promulgadas de conformidad con esta ley se encuentran en el CFR 40, secciones 260 ff, y definen los requisitos de la generación, transporte, tratamiento, almacenamiento y eliminación de residuos peligrosos. Códigos de residuos RCRA de la EPA: Se definen en el CFR 40, sección 261.

SECCIÓN 15: CERCLA: Ley Integral de Compensación, Responsabilidad y Respuesta Ambiental (también conocida como "Superfund") y SARA: (Ley de Modificación y Reautorización de la Superfund). Las normas promulgadas de acuerdo con esta ley se localizan en el CFR 40, 300 ff. y brindan los requisitos de "el derecho a saber de la comunidad". TSCA: Ley de Control de Sustancias Tóxicas: Las normas que rigen la fabricación y venta de sustancias químicas, ubicadas en el CFR 40, 700-766. DSL/NDL: Listas canadienses de Sustancias Domésticas y no Domésticas.

SECCIÓN 16: SISTEMA DE CALIFICACIÓN PARA LA IDENTIFICACIÓN DE MATERIALES PELIGROSOS: Este es un sistema de calificación utilizado por el sector para resumir los riesgos físicos y a la salud de los usuarios de sustancias químicas, y fue desarrollado originalmente por la Asociación Nacional de Pinturas y Recubrimientos. 0 = Sin riesgo significativo. 1 = Riesgo leve. 2 = Riesgo moderado. 3 = Riesgo grave. 4 = Riesgo extremo.

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WAXIE Sparkle Glass Cleaner

950151

A00124

Version 1.0

Revision Date 04/24/2015

Print Date 05/18/2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : WAXIE Sparkle Glass Cleaner

Material number : 950151

Manufacturer or supplier's details

Company : WAXIE Sanitary Supply

Address : 9353 Waxie Way, San Diego CA. 92123-1036

Telephone : 1-800-995-4466

Emergency telephone numbers

For SDS Information : 1-800-255-3924 (CHEMTEL; 24 hours)

For a Medical Emergency : 1-800-255-3924 (CHEMTEL; 24 hours)

For a Transportation
Emergency :

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	Aerosol containing a liquefied gas
Color	white
Odor	characteristic

GHS Classification

Gases under pressure : Liquefied gas

GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard statements : H280 Contains gas under pressure; may explode if heated.

Precautionary statements : **Storage:**
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

Potential Health Effects

Carcinogenicity:

SAFETY DATA SHEET



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IARC	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.
ACGIH	Confirmed animal carcinogen with unknown relevance to humans ethanol 64-17-5
OSHA	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.
NTP	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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration [%]
butane	106-97-8	>= 1 - < 5
1-propoxypropan-2-ol	1569-01-3	>= 1 - < 5
ethanol	64-17-5	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice	: Do not leave the victim unattended.
If inhaled	: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. Wash off immediately with plenty of water for at least 15 minutes. If on clothes, remove clothes.
In case of eye contact	: Remove contact lenses. Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
If swallowed	: Keep respiratory tract clear. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

SECTION 5. FIREFIGHTING MEASURES

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- Suitable extinguishing media : Dry chemical
Carbon dioxide (CO₂)
Foam
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Smoke
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Ensure adequate ventilation.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
Do not breathe vapors or spray mist.
Always replace cap after use.
- Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force

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or throw into fire even after use. Do not spray on flames or red-hot objects.

Observe label precautions.

Electrical installations / working materials must comply with the technological safety standards.

Keep in a dry, cool and well-ventilated place.

Materials to avoid : Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
butane	106-97-8	TWA	800 ppm 1,900 mg/m ³	NIOSH REL
			800 ppm 1,900 mg/m ³	OSHA P0
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
			1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Face-shield
Safety glasses

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Aerosol containing a liquefied gas
Color	: white
Odor	: characteristic
Odor Threshold	: no data available
pH	: no data available
Melting point/freezing point	: no data available
Boiling point	: no data available
Flash point	: not applicable
Evaporation rate	: < 1
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Density	: 0.99 g/cm ³
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: not determined
Thermal decomposition	: no data available
Viscosity	
Viscosity, kinematic	: no data available
Heat of combustion	: 3.07 kJ/g

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂) Carbon monoxide Nitrogen oxides (NO _x)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:

butane:

Acute inhalation toxicity : LC50 mouse: 1,237 mg/l
Exposure time: 2 h

LC50 rat: 1,355 mg/l

ethanol:

Acute oral toxicity : LD50 Oral rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 rat: 124.7 mg/l
Exposure time: 4 h

Skin corrosion/irritation

Product:

Remarks: May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

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WAXIE Sanitary Supply
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no data available

Carcinogenicity

no data available

Reproductive toxicity

no data available

butane:

1-propoxypropan-2-ol:

ethanol:

STOT - single exposure

no data available

STOT - repeated exposure

no data available

Aspiration toxicity

no data available

Further information

Product:

Remarks: no data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

Product:

Partition coefficient: n-octanol/water : Remarks: no data available

Components:

butane:

Partition coefficient: n-octanol/water : Pow: 2.89

Mobility in soil

no data available

Other adverse effects

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no data available

Product:

Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information

: no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

Contaminated packaging

: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):
ORM-D, CONSUMER COMMODITY

Transportation Regulation: IMDG (Vessel):
UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IATA (Cargo Air):
UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: IATA (Passenger Air):
UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

Transportation Regulation: TDG (Canada):
UN1950, AEROSOLS, NON-FLAMMABLE, 2.2, - Limited quantity

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SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
2,2'-iminodiethanol	111-42-2	100	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Sudden Release of Pressure Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65 WARNING! This product contains a chemical known to the State of California to cause cancer.

2,2'-iminodiethanol

111-42-2

The components of this product are reported in the following inventories:

TSCA On TSCA Inventory
DSL This product contains one or several components that are not on the Canadian DSL nor NDSL.
AICS Not in compliance with the inventory
NZIoC Not in compliance with the inventory
PICCS Not in compliance with the inventory
IECSC Not in compliance with the inventory

Inventory Acronym and Validity Area Legend:

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

SECTION 16. OTHER INFORMATION

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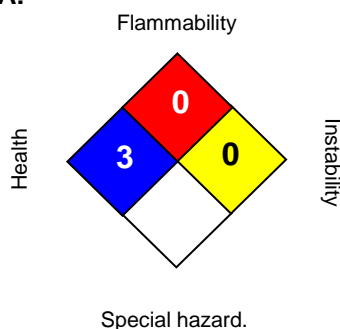
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Further information

NFPA:



HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	2

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

OSHA GHS Label Information:

Hazard pictograms :



Signal word :

Warning:

Hazard statements :

Contains gas under pressure; may explode if heated.

Precautionary statements :

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

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

SAFETY DATA SHEET

12293

Section 1. Identification

Product name : ACE® Pure Silicone Lubricant
Product code : 12293
Other means of identification : Not available.
Product type : Aerosol.
Relevant identified uses of the substance or mixture and uses advised against
Not applicable.

Manufacturer : Manufactured for: ACE Hardware Corporation
2200 Kensington Court
Oak Brook, IL 60523

Emergency telephone number of the company : (800) 535-5053
1-352-323-3500

Product Information Telephone Number : (800) 777-6797

Regulatory Information Telephone Number : (216) 566-2902

Transportation Emergency Telephone Number : (800) 535-5053
1-352-323-3500

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE AEROSOLS - Category 1
GASES UNDER PRESSURE - Compressed gas
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
TOXIC TO REPRODUCTION (Fertility) - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 34.6%
Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 94.6%
Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 71%

GHS label elements

Hazard pictograms :



Signal word : Danger

Date of issue/Date of revision : 5/25/2018

Date of previous issue : 5/16/2018

Version : 6.01 1/17

12293

ACE® Pure Silicone Lubricant

SHW-85-NA-GHS-US

Section 2. Hazards identification

Hazard statements : Extremely flammable aerosol.
 Contains gas under pressure; may explode if heated.
 Causes serious eye irritation.
 Causes skin irritation.
 Suspected of damaging fertility.
 May be fatal if swallowed and enters airways.
 May cause respiratory irritation.
 May cause drowsiness or dizziness.
 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

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

Response : Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage : Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Keep upright in a cool, dry place. Do not discard empty can in trash compactor.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
Acetone	≥25 - ≤50	67-64-1
Hexane	≥10 - ≤25	110-54-3
Propane	≥10 - ≤25	74-98-6
2-Methylpentane	≥10 - ≤25	107-83-5
3-Methylpentane	≤5	96-14-0
2,3-Dimethylbutane	≤5	79-29-8
Cyclohexane	≤3	110-82-7
2,2-Dimethylbutane	≤3	75-83-2
Cyclopentane	<1	287-92-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Section 4. First aid measures

- Skin contact** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

- Specific hazards arising from the chemical** : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide

Section 6. Accidental release measures

adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Avoid breathing gas. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous.

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

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Acetone	<p>ACGIH TLV (United States, 3/2017). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. NIOSH REL (United States, 10/2016). TWA: 250 ppm 10 hours. TWA: 590 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 2400 mg/m³ 8 hours.</p>
Hexane	<p>ACGIH TLV (United States, 3/2017). Absorbed through skin. TWA: 50 ppm 8 hours. NIOSH REL (United States, 10/2016). TWA: 50 ppm 10 hours. TWA: 180 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 500 ppm 8 hours. TWA: 1800 mg/m³ 8 hours.</p>
Propane	<p>NIOSH REL (United States, 10/2016). TWA: 1000 ppm 10 hours. TWA: 1800 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 1000 ppm 8 hours. TWA: 1800 mg/m³ 8 hours. ACGIH TLV (United States, 3/2017). Oxygen Depletion [Asphyxiant].</p>
2-Methylpentane	<p>ACGIH TLV (United States, 3/2017). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.</p>
3-Methylpentane	<p>ACGIH TLV (United States, 3/2017). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.</p>
2,3-Dimethylbutane	<p>ACGIH TLV (United States, 3/2017). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.</p>
Cyclohexane	<p>ACGIH TLV (United States, 3/2017). TWA: 100 ppm 8 hours. NIOSH REL (United States, 10/2016).</p>

Section 8. Exposure controls/personal protection

<p>2,2-Dimethylbutane</p>	<p>TWA: 300 ppm 10 hours. TWA: 1050 mg/m³ 10 hours. OSHA PEL (United States, 6/2016). TWA: 300 ppm 8 hours. TWA: 1050 mg/m³ 8 hours. ACGIH TLV (United States, 3/2017). TWA: 500 ppm 8 hours. TWA: 1760 mg/m³ 8 hours. STEL: 1000 ppm 15 minutes. STEL: 3500 mg/m³ 15 minutes. NIOSH REL (United States, 10/2016). TWA: 100 ppm 10 hours. TWA: 350 mg/m³ 10 hours. CEIL: 510 ppm 15 minutes. CEIL: 1800 mg/m³ 15 minutes.</p>
<p>Cyclopentane</p>	<p>ACGIH TLV (United States, 3/2017). TWA: 600 ppm 8 hours. TWA: 1720 mg/m³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 600 ppm 10 hours. TWA: 1720 mg/m³ 10 hours.</p>

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
<p>Acetone</p>	<p>CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1200 mg/m³ 8 hours. 15 min OEL: 1800 mg/m³ 15 minutes. 8 hrs OEL: 500 ppm 8 hours. 15 min OEL: 750 ppm 15 minutes. CA British Columbia Provincial (Canada, 6/2017). TWA: 250 ppm 8 hours. STEL: 500 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 500 ppm 8 hours. STEL: 750 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWAEV: 500 ppm 8 hours. TWAEV: 1190 mg/m³ 8 hours. STEV: 1000 ppm 15 minutes. STEV: 2380 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 750 ppm 15 minutes. TWA: 500 ppm 8 hours.</p>
<p>Hexane</p>	<p>CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 176 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2017). Absorbed through skin. TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 50 ppm 8 hours. TWAEV: 176 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada,</p>

Section 8. Exposure controls/personal protection

Propane

7/2013). Absorbed through skin.

STEL: 62.5 ppm 15 minutes.

TWA: 50 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 1000 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2017).

TWA: 1000 ppm 8 hours.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 1000 ppm 8 hours.

TWAEV: 1800 mg/m³ 8 hours.

CA Ontario Provincial (Canada, 7/2015).

TWA: 1000 ppm 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 1250 ppm 15 minutes.

TWA: 1000 ppm 8 hours.

2-Methylpentane

CA Alberta Provincial (Canada, 4/2009).

15 min OEL: 3500 mg/m³ 15 minutes.

8 hrs OEL: 1760 mg/m³ 8 hours.

15 min OEL: 1000 ppm 15 minutes.

8 hrs OEL: 500 ppm 8 hours.

CA British Columbia Provincial (Canada, 6/2017).

TWA: 200 ppm 8 hours.

CA Ontario Provincial (Canada, 7/2015).

TWA: 500 ppm 8 hours.

STEL: 1000 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 500 ppm 8 hours.

TWAEV: 1760 mg/m³ 8 hours.

STEV: 1000 ppm 15 minutes.

STEV: 3500 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 1000 ppm 15 minutes.

TWA: 500 ppm 8 hours.

3-Methylpentane

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 500 ppm 8 hours.

15 min OEL: 1000 ppm 15 minutes.

15 min OEL: 3500 mg/m³ 15 minutes.

8 hrs OEL: 1760 mg/m³ 8 hours.

CA British Columbia Provincial (Canada, 6/2017).

TWA: 200 ppm 8 hours.

CA Ontario Provincial (Canada, 7/2015).

TWA: 500 ppm 8 hours.

STEL: 1000 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).

TWAEV: 500 ppm 8 hours.

TWAEV: 1760 mg/m³ 8 hours.

STEV: 1000 ppm 15 minutes.

STEV: 3500 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 1000 ppm 15 minutes.

TWA: 500 ppm 8 hours.

2,3-Dimethylbutane

CA Alberta Provincial (Canada, 4/2009).

8 hrs OEL: 1760 mg/m³ 8 hours.

15 min OEL: 1000 ppm 15 minutes.

15 min OEL: 3500 mg/m³ 15 minutes.

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Cyclohexane

8 hrs OEL: 500 ppm 8 hours.
CA British Columbia Provincial (Canada, 6/2017).

TWA: 200 ppm 8 hours.
CA Ontario Provincial (Canada, 7/2015).

TWA: 500 ppm 8 hours.
 STEL: 1000 ppm 15 minutes.
CA Quebec Provincial (Canada, 1/2014).

TWAEV: 500 ppm 8 hours.
 TWAEV: 1760 mg/m³ 8 hours.
 STEV: 1000 ppm 15 minutes.
 STEV: 3500 mg/m³ 15 minutes.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 1000 ppm 15 minutes.
 TWA: 500 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).
 8 hrs OEL: 344 mg/m³ 8 hours.

8 hrs OEL: 100 ppm 8 hours.
CA British Columbia Provincial (Canada, 6/2017).

TWA: 100 ppm 8 hours.
CA Ontario Provincial (Canada, 7/2015).

TWA: 100 ppm 8 hours.
CA Quebec Provincial (Canada, 1/2014).

TWAEV: 300 ppm 8 hours.
 TWAEV: 1030 mg/m³ 8 hours.

CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 150 ppm 15 minutes.
 TWA: 100 ppm 8 hours.

CA Alberta Provincial (Canada, 4/2009).
 8 hrs OEL: 1760 mg/m³ 8 hours.

15 min OEL: 1000 ppm 15 minutes.
 15 min OEL: 3500 mg/m³ 15 minutes.

8 hrs OEL: 500 ppm 8 hours.
CA British Columbia Provincial (Canada, 6/2017).

TWA: 200 ppm 8 hours.
CA Ontario Provincial (Canada, 7/2015).

TWA: 500 ppm 8 hours.
 STEL: 1000 ppm 15 minutes.

CA Quebec Provincial (Canada, 1/2014).
 TWAEV: 500 ppm 8 hours.

TWAEV: 1760 mg/m³ 8 hours.
 STEV: 1000 ppm 15 minutes.

STEV: 3500 mg/m³ 15 minutes.
CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 1000 ppm 15 minutes.
 TWA: 500 ppm 8 hours.

2,2-Dimethylbutane

[Occupational exposure limits \(Mexico\)](#)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Acetone	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 500 ppm 8 hours.
Hexane	NOM-010-STPS-2014 (Mexico, 4/2016). Absorbed through skin. TWA: 50 ppm 8 hours.
Propane	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 1000 ppm 8 hours.
2-Methylpentane	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
3-Methylpentane	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
2,3-Dimethylbutane	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.
Cyclohexane	NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 100 ppm 8 hours.
2,2-Dimethylbutane	NOM-010-STPS-2014 (Mexico, 4/2016). STEL: 1000 ppm 15 minutes. TWA: 500 ppm 8 hours.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Section 8. Exposure controls/personal protection

- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 7
- Melting point/freezing point** : Not available.
- Boiling point/boiling range** : Not available.
- Flash point** : Closed cup: -23°C (-9.4°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 9.1 (butyl acetate = 1)
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Lower: 1%
Upper: 12.8%
- Vapor pressure** : 101.3 kPa (760 mm Hg) [at 20°C]
- Vapor density** : 1.55 [Air = 1]
- Relative density** : 0.68
- Solubility** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Kinematic (40°C (104°F)): <0.205 cm²/s (<20.5 cSt)
- Molecular weight** : Not applicable.
- Aerosol product**
- Type of aerosol** : Spray
- Heat of combustion** : 36.295 kJ/g

Section 10. Stability and reactivity

- Reactivity** : No specific test data related to reactivity available for this product or its ingredients.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame).
- Incompatible materials** : No specific data.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LD50 Oral	Rat	5800 mg/kg	-
Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Cyclohexane	LD50 Oral	Rat	6240 mg/kg	-
Cyclopentane	LD50 Oral	Rat	11400 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-
Hexane	Eyes - Mild irritant	Rabbit	-	10 milligrams	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Hexane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Propane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
3-Methylpentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
2,3-Dimethylbutane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Cyclohexane	Category 3	Not applicable.	Respiratory tract irritation and

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2,2-Dimethylbutane	Category 3	Not applicable.	Narcotic effects Respiratory tract irritation and Narcotic effects
Cyclopentane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Acetone	Category 2	Not determined	Not determined
Hexane	Category 2	Not determined	Not determined
Propane	Category 2	Not determined	Not determined
2-Methylpentane	Category 2	Not determined	Not determined
3-Methylpentane	Category 2	Not determined	Not determined
2,3-Dimethylbutane	Category 2	Not determined	Not determined
Cyclohexane	Category 2	Not determined	Not determined
2,2-Dimethylbutane	Category 2	Not determined	Not determined
Cyclopentane	Category 2	Not determined	Not determined

Aspiration hazard

Name	Result
Hexane	ASPIRATION HAZARD - Category 1
Propane	ASPIRATION HAZARD - Category 1
2-Methylpentane	ASPIRATION HAZARD - Category 1
3-Methylpentane	ASPIRATION HAZARD - Category 1
2,3-Dimethylbutane	ASPIRATION HAZARD - Category 1
Cyclohexane	ASPIRATION HAZARD - Category 1
2,2-Dimethylbutane	ASPIRATION HAZARD - Category 1
Cyclopentane	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.

Skin contact : Causes skin irritation.

Ingestion : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

- Skin contact** : Adverse symptoms may include the following:
 irritation
 redness
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
 nausea or vomiting
 reduced fetal weight
 increase in fetal deaths
 skeletal malformations

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

- General** : May cause damage to organs through prolonged or repeated exposure.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Acetone	Acute EC50 7200000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 6900 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 5600 ppm Fresh water	Fish - Poecilia reticulata	96 hours
	Chronic NOEC 4.95 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 0.016 ml/L Fresh water	Crustaceans - Daphniidae	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.1 mg/l Fresh water	Fish - Fundulus heteroclitus	4 weeks
Hexane	Acute LC50 2500 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cyclohexane	Acute LC50 4530 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Acetone	-	-	Readily

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Hexane	-	501.187	high
Cyclohexane	-	167	low
Cyclopentane	-	70.8	low

Mobility in soil






Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1950	UN1950	UN1950	UN1950	UN1950
UN proper shipping name	AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable	AEROSOLS
Transport hazard class(es)	2.1 	2.1 	2.1 	2.1 	2.1 
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- ERG No. 126	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). ERG No. 126	- ERG No. 126	-	Emergency schedules F-D, S-U

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Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Proper shipping name : Not available.
Ship type : Not available.
Pollution category : Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	2
Flammability		4
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE AEROSOLS - Category 1	On basis of test data
GASES UNDER PRESSURE - Compressed gas	Calculation method
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
TOXIC TO REPRODUCTION (Fertility) - Category 2	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method
ASPIRATION HAZARD - Category 1	Calculation method

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Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by Sherwin-Williams, including but not limited to the incorporation of non Sherwin-Williams products or the use or addition of products in proportions not specified by Sherwin-Williams. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.



SAFETY DATA SHEET

Revision date 05-Jan-2017

Version 7

Supersedes Date: 02-Sep-2015

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code 024.0082096

Product Name ACID REPLACEMENT CONCRETE PREP CLEANER

Other means of identification

No information available

Recommended use of the chemical and restrictions on use

Washing and cleaning products (including solvent based products)

Details of the supplier of the safety data sheet

See section 16 for more information

The Valspar Corporation
PO Box 1461
Minneapolis, MN 55440

E-mail address msds@valspar.com

Emergency telephone number

United States of America 1-888-345-5732

American Samoa, Guam, Northern Mariana Islands, Puerto Rico, U.S. Virgin Islands 1-800-255-3924

Section 2: HAZARDS IDENTIFICATION

Classification

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

Label elements



Signal word

DANGER

HAZARD STATEMENTS

Causes severe skin burns and eye damage

PREVENTION

Do not breathe dusts or mists. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE

Get medical advice/attention if you feel unwell.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Inhalation

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

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

STORAGE

Store locked up.

DISPOSAL

Dispose of contents/containers in accordance with local regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable.

OTHER HAZARDS

Not applicable.

UNKNOWN ACUTE TOXICITY

.0001% of the mixture consists of ingredient(s) of unknown toxicity.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	weight-%
Urea, monohydrochloride	506-89-8	10 - 25
Dipropylene glycol monomethyl ether	34590-94-8	1 - 3
1-Butoxy-2-propanol	5131-66-8	1 - 3

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

Section 4: FIRST AID MEASURES

First Aid Measures

General advice

Get medical advice/attention if you feel unwell.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor/physician.

Inhalation

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

Ingestion

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Not to be used for safety reasons: Strong water jet

Specific hazards arising from the chemical

Burning produces heavy smoke. Fire may produce irritating and/or toxic gases. In the event of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit. Cool containers with flooding quantities of water until well after fire is out. Do not allow run-off from fire-fighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid breathing vapors or mists. Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dispose of waste product or used containers according to local regulations. Clean with detergents. Avoid solvent cleaners. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Use personal protection recommended in Section 8. Never use pressure to empty container. Comply with the health and safety at work laws. Prevent product from entering drains. Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations

Avoid contact with skin, eyes or clothing. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep/store only in original container. Store in accordance with local regulations. Keep unauthorized personnel away. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Incompatible materials

Strong bases. Strong oxidizing agents.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

If S* appears in the OEL table, it indicates this chemical contains a skin notation.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Dipropylene glycol monomethyl ether 34590-94-8	STEL: 150 ppm TWA: 100 ppm S*	TWA: 100 ppm TWA: 600 mg/m ³ S*	IDLH: 600 ppm TWA: 100 ppm TWA: 600 mg/m ³ STEL: 150 ppm STEL: 900 mg/m ³

Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas. Provide local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face protection shield. Tight sealing safety goggles.

Skin and body protection

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hand Protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical / chemical damage and poor maintenance.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal Protection

No information available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state liquid
Appearance No information available
Odor Slight
Color clear
Odor Threshold No information available
pH value 1.42
Melting point/freezing point No information available
Boiling point / boiling range No information available °C / °F
flash point 116 °C / 241 °F
evaporation rate No information available
Flammability (solid, gas) No information available
Flammability Limit in Air
 Upper flammability limit: No information available
 Lower flammability limit: No information available
Vapor Pressure No information available
vapor density No information available
Density (lbs per US gallon) 8.77
specific gravity 1.05
Solubility(ies) No information available
Partition coefficient No information available
Autoignition temperature No information available
Decomposition temperature No information available
Kinematic viscosity No information available
Dynamic viscosity No information available

Other information

Section 10: STABILITY AND REACTIVITY

Reactivity No information available.
Chemical stability Stable under normal conditions.
Possibility of Hazardous Reactions None under normal processing.
Hazardous polymerization None under normal processing.
Conditions to avoid Heat, flames and sparks.
Incompatible materials Strong bases. Strong oxidizing agents.
Hazardous Decomposition Products Hydrogen chloride.

Section 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact
Not applicable
Skin Contact
Causes skin burns
Ingestion
Not applicable
Inhalation
Not applicable

Numerical measures of toxicity - Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Urea, monohydrochloride 506-89-8	-	-	-

Dipropylene glycol monomethyl ether 34590-94-8	= 5400 µL/kg (Rat)	= 9500 mg/kg (Rabbit)	-
1-Butoxy-2-propanol 5131-66-8	= 5660 µL/kg (Rat) = 1900 mg/kg (Rat)	= 3100 mg/kg (Rabbit)	-

Numerical measures of toxicity - Product Information

UNKNOWN ACUTE TOXICITY .0001% of the mixture consists of ingredient(s) of unknown toxicity.

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

Skin corrosion/irritation	Causes skin burns
Serious eye damage/eye irritation	Not applicable
Skin sensitization	Not applicable
Respiratory sensitization	Not applicable
Germ cell mutagenicity	Not applicable
Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Specific target organ toxicity (single exposure)	Not applicable
Specific target organ toxicity (repeated exposure)	Not applicable
Aspiration hazard	Not applicable

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Environmental precautions Prevent product from entering drains.

Persistence and degradability

No information available

Bioaccumulation

No information available

Mobility

No information available

Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging

Do not reuse container.

Section 14: TRANSPORT INFORMATION

14.1 UN/ID no	DOT UN1760	IMDG UN1760	IATA UN1760
14.2 Proper shipping name	Corrosive liquid, n.o.s Urea, monohydrochloride	Corrosive liquid, n.o.s Urea, monohydrochloride	Corrosive liquid, n.o.s Urea, monohydrochloride
14.3 Hazard Class	8	8	8
14.4 Packing Group	II	II	II
14.5 Environmental hazard	Not applicable		

14.6 Special Provisions

B2, IB2, TII, TP2, TP27

274

A3, A803

**Emergency Response Guide
Number**
154**EmS-No**
F-A, S-B**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No information available

The supplier may apply one of the following exceptions: Combustible Liquid (49 CFR 173.150(f)); Consumer Commodity (49 CFR 173.150(c), ICAO/IATA SP A112); Limited Quantity (49 CFR 173.150(b), ICAO Part 3 Chapter 4, IATA 2.7, IMDG Chapter 3.4); Viscous Liquid (49 CFR 173.121(b), IMDG 2.3.2.2, IATA 3.3.3.1.1, ICAO 3.2.2, ADR 2.2.3.1.5); Does Not Sustain Combustion (49 CFR 173.120(a), IATA 3.3.1.3, ICAO 3.1.3, IMDG 2.3.1.3, ADR 2.2.3.1.1 Note 1); or others as allowed under hazardous materials/dangerous goods regulations.

Section 15: REGULATORY INFORMATION**International Inventories****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

All components are listed or exempt from listing.

DSL - Canadian Domestic Substances List

All components are listed or exempt from listing

US Federal Regulations**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

US State Regulations**Rule 66 status of product**

Not photochemically reactive.

U.S. EPA Label information**EPA Pesticide registration number** Not applicable**U.S. State Right-to-Know Regulations**

Chemical Name
Water 7732-18-5
Urea, monohydrochloride 506-89-8
Dipropylene glycol monomethyl ether 34590-94-8
1-Butoxy-2-propanol 5131-66-8

Section 16: OTHER INFORMATION**HMIS**

Health hazards	3
Flammability	1
Physical hazards	0
Personal Protection	X

Supplier Address

Valspar Consumer
Headquarters
8725 W. Higgins Rd. Suite
1000
Chicago, IL 60631
773-628-5500

The Valspar Corporation
4999 36th St.
Grand Rapids, MI 49512
800-253-3957

Valspar Plasti-Kote
1636 Shawsone Dr.
Mississauga, Ontario L4W 1N7
905-671-8333

Prepared By

Product Stewardship

Revision date

05-Jan-2017

Revision Note

No information available

Disclaimer

The information on this Safety Data Sheet (SDS) is based on the present state of our knowledge, current national legislation and guidelines. As the specific conditions of use of the product are outside the supplier's knowledge and control the user is responsible for ensuring that the requirements of relevant legislation are complied with. This SDS should not be construed as any guarantee of the technical performance or suitability for particular applications. **UNLESS SUPPLIER AGREES OTHERWISE IN WRITING, SUPPLIER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. SUPPLIER WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

End of Safety Data Sheet

SAFETY DATA SHEET



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

SECTION 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER

- ITEM NUMBER(S): 320022, 320024, 320025
- PRODUCT NAME: **Balance Neutral-pH Hard Surface Cleaner and Odor Counteractant**
 - 320022 – 5 GL
 - 320024 – 1 GL
 - 320025 – 55 GL

1.2 RELEVANT IDENTIFIED USES OF THE MIXTURE

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

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

- MANUFACTURER/
SUPPLIER: **WAXIE Sanitary Supply**
- ADDRESS: 9353 Waxie Way; San Diego, CA 92123-1036
- BUSINESS PHONE: 1-800-995-4466
- EMERGENCY PHONE: 1-800-255-3924 (CHEMTEL; 24 hours)

1.4 OTHER PERTINENT INFORMATION

- This product is intended to be used only after dilution. The relevant hazard and safety data sheet are specified for both the **Product as SOLD** and **Product at USE DILUTION**, where appropriate.

SECTION 2: HAZARD IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

OSHA/HCS Status

Classification of the Substance or Mixture

Product as SOLD

Acute Toxicity, Oral (Category 4), Serious eye damage/Irritation (Category 2B);

Product at USE DILUTION

Acute Toxicity (Oral, Category 5)
Eye Damage/Irritation (Category 2B)

2.2 LABEL ELEMENTS:

ELEMENT

Hazard Pictograms

Product as SOLD



Product at USE DILUTION

Not applicable.

Signal Word

WARNING.

WARNING.

Hazard Statements

Harmful if swallowed. Causes eye irritation.

May be harmful if swallowed.
Causes eye irritation.

SECTION 2: HAZARDS IDENTIFICATION (Continued)

2.2 LABEL ELEMENTS (Continued):

ELEMENT	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Precautionary Statements		
Prevention	Keep out of reach of children. Wash hands thoroughly after use. Do not eat, drink, or smoke when using this product. Wear eye protection, face protection, protective clothing, and protective gloves.	Keep out of reach of children. Wash hands thoroughly after handling.
Response	IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.	Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If eye irritation persists, see a physician.
Storage	Not established; follow guidelines in section 7.	Not established; follow guidelines in section 7.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.	Not established; follow guidelines in section 13.

2.3 OTHER PERTINENT DATA ON CHEMICAL AND PHYSICAL HAZARDS:

- May cause mild skin irritation, especially after prolonged exposure.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 SUBSTANCES/MIXTURES

CHEMICAL	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR CHEMICAL	% (w/w)
Citric acid, Trisodium Salt Dihydrate	6132-04-3	Not applicable.	Proprietary ¹
Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether	166736-08-9	Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Serious eye damage (Category 1); Acute aquatic toxicity (Category 3); Chronic aquatic toxicity (Category 3);	Proprietary
Dimethylmethyl (polyethylene oxide) siloxane	68937-54-2	Eye irritation (Category 2A)	Proprietary

¹ The exact percentage of composition has been withheld as a trade secret. All relevant physical and health hazards have been declared, in accordance with regulatory requirements.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

AREA EXPOSED	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Eye Contact	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention if irritation persists.	Flush with copious amounts of water. "Roll" eyes during flush. Seek medical attention if irritation persists.
Skin Contact	Flush area with warm, running water for several minutes. Seek medical attention if irritation persists.	Flush area with warm, running water for several minutes.
Inhalation	Obtain fresh air.	Obtain fresh air.
Ingestion	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.	If conscious only: Rinse mouth with water. Drink several cups of water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.

4.2 MOST IMPORTANT ACUTE AND CHRONIC EXPOSURE SYMPTOMS

- ACUTE HEALTH EFFECTS:

AREA EXPOSED	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Eye Contact	Causes eye irritation.	May cause eye irritation, depending on the duration of contact, redness and pain may occur.
Skin Contact	Causes mild skin irritation may occur, depending on duration of contact.	No adverse effects anticipated.
Inhalation	Causes respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.	May cause mild respiratory tract irritation; symptoms may include coughing and sneezing depending on volume of mist/spray inhaled.
Ingestion	Causes gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting if large volumes are ingested.	May cause gastrointestinal system irritation; symptoms may include pain, sore throat, nausea and vomiting.

- CHRONIC HEALTH EFFECTS:

<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
None reported.	None reported.

- TARGET ORGANS:

<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Eyes.	None.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

The following information is for both **Product AS SOLD** and **Product at USE DILUTION**.

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

SECTION 5: FIREFIGHTING MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

5.1 EXTINGUISHING MEDIA

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

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- **NFPA FLAMMABILITY CLASSIFICATION:**

Classification

Product as SOLD

Product at USE DILUTION

NFPA Rating



NFPA Classification

Not flammable.

Not flammable.

- **UNUSUAL HAZARDS IN FIRE SITUATIONS:**

Decomposition

Product as SOLD

Product at USE DILUTION

Generates carbon dioxide, carbon monoxide, and sodium compounds.

Generates carbon dioxide, carbon monoxide, and sodium compounds.

Explosion Sensitivity to Mechanical Impact

Not applicable.

Not applicable.

Explosion Sensitivity to Static Discharge

Not applicable.

Not applicable.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material (therefore, 55 gallons or less). Subsequently, personnel can follow the instructions for incidental releases. As needed, respond to non-incident chemical releases of this product (such as the simultaneous destruction of several pallets of this product) by clearing the impacted area and contacting appropriate emergency personnel. In the event that over 5 gallons of this material has spilled, safety goggles with face-shield and air-purifying respirator with High Efficiency Particulate Filter should be worn.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly. Because this product is a disinfectant, all items that come in contact with the solution can be returned to service after rinsing.

6.2 ENVIRONMENTAL PRECAUTIONS

- Avoid response actions that can cause a release of a significant amount of product (more than 4 gallons) into the environment. Avoid accidental dispersal of spilled material into soil, waterways and sewers.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or other absorbent material.

6.4 REFERENCES TO OTHER SECTIONS

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

SECTION 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

ITEM	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Hygiene Practices	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.	Keep out of reach of children. Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists and sprays. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
Handling Practices	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.	Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

ITEM	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Storage Practices	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual liquid; therefore, empty containers should be handled with care.	Ensure all containers are correctly labeled. Store containers away from direct sunlight, sources of intense heat, or where freezing is possible. Store this product away from incompatible chemicals.
Incompatibilities	See Section 10 (Stability and Reactivity).	See Section 10 (Stability and Reactivity).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS







- **AIRBORNE EXPOSURE LIMITS:** No airborne exposure limits are established for the components of this product.
- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** Not established.

8.2 EXPOSURE CONTROLS

ITEM	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Engineering Controls Respiratory Protection	Use in well-ventilated environment. None needed in normal circumstances of use.	Use in well-ventilated environment. None needed in normal circumstances of use.
Hand Protection	Neoprene or nitrile gloves are recommended. Ensure gloves are intact prior to use.	Standard chemical-resistant gloves used in janitorial work are recommended.
Eye Protection Body Protection	Safety glasses. Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used.	Safety glasses. Standard protection used in janitorial service. If splashes or sprays can occur, a rubber apron should be used.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (Continued)

8.3 PERSONAL PROTECTION SYMBOLS

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Hand Protection		
Eye/Face Protection		
Body Protection		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

	<u>Product as SOLD</u>	<u>Product at USE DILUTION</u>
Appearance	Light yellow.	Clear, colorless liquid.
Odor	Lemon scent.	Lemon scent.
Odor Threshold	Not determined.	Not determined.
pH	7.0-8.0	Approximately 7
Melting Point/Freezing Point	< 0°C (32 °F).	Approx. 0°C (32 °F).
Initial Boiling Point/Boiling Range	>100°C (210 °F).	Approximately 100°C (212°F).
Flash Point	Not applicable.	Not applicable.
Evaporation Rate (Water = 1)	Approx. 1.0.	Approx. 1.0.
Flammability	Not applicable.	Not applicable.
Upper/Lower Explosive Limits	Not applicable.	Not applicable.
Vapor Pressure	Not determined.	Not determined.
Vapor Density	Not determined.	Not determined.
Relative Density (Density)	1.01 (8.42 lb/gal)	Approx. 1.0.
Solubility	Completely soluble in water.	Completely soluble in water.
Partition Coefficient/n-octanol/water	Not determined.	Not determined.
Autoignition Temperature	Not applicable.	Not applicable.
Decomposition Temperature	Not determined.	Not determined.
Viscosity	Not determined.	Not determined.

9.2 OTHER INFORMATION

- VOC (less water & exempt): <10 g/L.
- WEIGHT% VOC: <1.0%.

SECTION 10: STABILITY AND REACTIVITY

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

10.1 REACTIVITY

- Not reactive under typical conditions of use or handling.

10.2 CHEMICAL STABILITY

- Normally stable under standard temperatures and pressures.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

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

10.4 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals.

SECTION 10: STABILITY AND REACTIVITY (Continued)

10.5 INCOMPATIBLE MATERIALS

- Strong oxidizing agents, ammonia, bleach, strong acids, strong alkali materials.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition of this product include oxides of carbon (i.e., carbon monoxide and carbon dioxide), and sodium compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- **ACUTE TOXICITY:**

- **PRODUCT TOXICITY DATA:**

- Acute Toxicity Estimate (Oral) > 300 mg/kg

- **COMPONENT TOXICITY DATA:** The following data are available for the hazardous components in this product listed in Section 3 (Composition/Information on Ingredients).

**OXIRANE, METHYL-, POLYMER WITH
OXIRANE, MONO(2-PROPYLHEPTYL)
ETHER**

LD₅₀ (oral, rat) = 500 mg/kg

LD₅₀ (intraperitoneal, rat) = 400 mg/kg

CITRIC ACID, TRISODIUM SALT DIHYDRATE

LD₅₀ (oral, mouse) = 1540 mg/kg

LD₅₀ (skin, rat) > 2000 mg/kg

- **DEGREE OF IRRITATION:**

See Section 4 (First-Aid **Product as SOLD** Measures) for more details.

Causes eye irritation.

Product at USE DILUTION

May cause eye irritation.

- **SENSITIZATION:** No component of the product is reported to be a skin or respiratory sensitizer.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazards Information) and Section 4 (First-Aid Measures) for additional details.

	<u>Product as SOLD</u>
Eyes	Causes eye irritation.
Skin	May cause mild skin irritation.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause gastrointestinal system irritation.

<u>Product at USE DILUTION</u>
May cause eye irritation.
May cause mild skin irritation, depending on duration of contact.
May cause mild respiratory tract irritation.
May cause gastrointestinal system irritation.

- **CHRONIC TOXICITY:**

- **CARCINOGENICITY STATUS:** Not applicable.
- **REPRODUCTIVE TOXICITY INFORMATION:** The components of this product are not reported to cause reproductive effects under typical circumstances of exposure.
- **MUTAGENIC EFFECTS:** The components of this product are not reported to cause mutagenic effects under typical circumstances of exposure.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

- **OTHER INFORMATION:**

- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

SECTION 12: ECOLOGICAL INFORMATION

Unless stated, information in this section is for both **Product as SOLD** and **Product at USE DILUTION**.

12.1 TOXICITY

- Based on available data, this product may be harmful or fatal to contaminated terrestrial or aquatic plants or animals, depending on the volume released into the environment.
- The following aquatic toxicity data is available for the components of this product:

CITRIC ACID, TRISODIUM SALT DIHYDRATE

LC50 - Oncorhynchus kisutch - > 10 mg/l - 24 hours
 Static test EC50 - Dreissena polymorpha (zebra mussel)
 - > 50 mg/l - 48 hours

OXIRANE, METHYL-, POLYMER WITH OXIRANE, MONO(2-PROPYLHEPTYL) ETHER

LC50 (96 hours) > 10 - < 100 mg/l, Brachydanio rerio
 EC50 (48 hours) > 10 - < 100 mg/l, Daphnia magna
 EC50 (72 hours) > 10 - < 100 mg/l (growth rate),
 Scenedesmus subspicatus
 EC10 (72 hours) > 1 mg/l (growth rate), Scenedesmus subspicatus

12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

12.4 MOBILITY IN SOIL

- It is to be expected this product will have some mobility in soil.

12.5 OTHER ADVERSE EFFECTS

- None reported.

SECTION 13: DISPOSAL CONSIDERATION

13.1 WASTE TREATMENT METHODS

Product as SOLD

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

Product at USE DILUTION

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

13.2 DISPOSAL CONSIDERATIONS

- EPA RCRA WASTE CODE:** Not applicable.

SECTION 14: TRANSPORT INFORMATION

Information in this section is for **Product as SOLD**.

14.1 DANGEROUS GOODS BASIC DESCRIPTION AND OTHER TRANSPORT INFORMATION

- DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

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

- IATA DESIGNATION:** Not regulated as dangerous goods by the International Air Transport Association.
- IMO DESIGNATION:** Not regulated as dangerous goods by the International Maritime Organization.

14.2 ENVIRONMENTAL HAZARDS

- None described, as related to transportation.

14.3 SPECIAL PRECAUTIONS FOR USERS

- Not applicable.

14.4 TRANSPORT IN BULK

- Not applicable.

SECTION 15: REGULATORY INFORMATION

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

- **OTHER IMPORTANT U.S. REGULATIONS**
 - **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** ACUTE: Yes; CHRONIC: No; FIRE: No; REACTIVE: No; SUDDEN RELEASE: No
 - **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable.
 - **U.S. TSCA INVENTORY STATUS:** All components of this product are listed on the TSCA Inventory.
 - **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.
- **INTERNATIONAL REGULATIONS**
 - **CANADIAN REGULATORY STATUS:** The product is classified as hazardous under Hazardous Products Regulations (SOR-2015-17).
 - WHMIS 2015: See section 2.
 - This SDS contains all the information required by the HPR.
 - **CANADIAN DSL/NDSL INVENTORY STATUS:** The listed components of this product are on the DSL/NDSL Inventory.
 - **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this product are not on the CEPA Priorities Substances Lists.

SECTION 16: OTHER INFORMATION

16.1 INDICATION OF CHANGE

- **DATE OF REVISION:** January 4, 2018
- **SUPERCEDES:** October 17, 2017
- **CHANGE INDICATED:** Update of composition and review/update of regulatory values.

16.2 KEY LITERATURE REFERENCES AND SOURCES FOR DATA

- SAFETY DATA SHEETS FOR COMPONENT PRODUCTS.
- Federal OSHA Hazard Communication Standard: 29 CFR 1910.1200.
- SAX – Dangerous Properties of Industrial Materials
- RTECS – Registry of Effects of Toxic Chemicals
- TOXNET – <http://toxnet.nlm.nih.gov/>

16.3 HAZARDOUS MATERIALS CLASSIFICATION SYSTEM

<u>Product as SOLD</u>		<u>Product at USE DILUTION</u>	
Health	1	Health	0
Flammability	0	Flammability	0
Physical Hazard	0	Physical Hazard	0
Protective Equipment	C	Protective Equipment	B/C

HMIS Personal Protective Equipment Rating: Occupational Use situations: C - Safety glasses and gloves and-body protection suitable to specific circumstances of use should be worn

HMIS Personal Protective Equipment Rating: Occupational Use situations: B - Safety glasses and gloves. C: Rubber apron/body protection should be added if splashes/sprays could occur.

16.4 DISCLAIMER

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

SECTION 16: OTHER INFORMATION (Continued)

16.5 ABBREVIATIONS AND ACRONYMS

ALL SECTIONS: OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances.

SECTION 3: CAS Number: Chemical Abstract Service Number, which is used by the American Chemical Society to uniquely identify a chemical.

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

SECTION 8: NE: Not established. ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4-times daily and each exposure separated by one-hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit. ppm: Parts per Million. mg/m³: Milligrams per cubic meter. mppcf: Millions of Particles per Cubic Foot. BEI: Biological Exposure Limit.

SECTION 9: pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, pH of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition. ≈: Approximately symbol. VOC: Volatile Organic Compound.

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

SECTION 12: EC50: Effect Concentration (on 50% of study group); BOD: Biological Oxygen Demand. COD: Chemical Oxygen Demand. ThOD: Theoretical Oxygen Demand. TLM: Median Tolerance Limit.

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

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

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

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date: February 23, 2016

Revision: February 23, 2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**

- **Trade name:** Break-Free CLP Liquid

- **Article number:**

1009216, 1009217, 1009221, 1009223, 1009229, 1009230, 1009231, 1009232, 1009233, 1009236, 1009237, 1009243, 1009244, 1009247, 1009241, 1009242,
(CLP-11-1, CLP-11-10, CLP-16-1, CLP-16-20, CLP-20-1, CLP-20-10, CLP-3-1, CLP-4-1, CLP-4-10, CLP-5-1, CLP-5-10, CLP-7040-1, CLP-7040-1M, CLP-8-6, CLP-7-1, CLP-7-4)

- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

- **Application of the substance / the mixture:** Lubricant

- **Uses advised against:** Contact manufacturer.

- **1.3 Details of the supplier of the Safety Data Sheet**

- **Manufacturer/Supplier:**

Safariland, LLC
13386 International Parkway
Jacksonville, FL 32218 USA
Customer Care (800) 347-1200



- **1.4 Emergency telephone number:**

ChemTel Inc.
+1 (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**

The product is not classified as hazardous according to GHS regulations.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

- **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.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

This product does not have a classification according to the CLP regulation.

The product is not classified as hazardous according to OSHA GHS regulations within the United States.

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Danger

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date: February 23, 2016

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Trade name: Break-Free CLP Liquid

(Cont'd. from page 1)

- **Hazard-determining components of labelling:**

None.

1-decene, dimer, hydrotreated

- **Hazard statements**

H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

P405 Store locked up.

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

- **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



HEALTH 0 Health = 0

FIRE 1 Fire = 1

REACTIVITY 0 Reactivity = 0

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Components:**

68649-11-6	1-decene, dimer, hydrotreated	Asp. Tox. 1, H304 Acute Tox. 4, H332	10-25%
	organic calcium salt		2,5-10%

- **Additional information:**

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

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:** No special measures required.

- **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

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Safety Data Sheet

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OSHA GHS

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

- **After skin contact:**

Clean with water and soap.

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.

- **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- **4.2 Most important symptoms and effects, both acute and delayed**

Gastric or intestinal disorders.

- **Hazards:** May be fatal if swallowed and enters airways.

- **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation with added, activated carbon.

If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Foam

Fire-extinguishing powder

Gaseous extinguishing agents

Carbon dioxide

Water haze or fog

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:** No further relevant information available.

SECTION 6: Accidental release measures

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

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

- **6.2 Environmental precautions** Do not allow product to reach sewage system or any water course.

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

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

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

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Send for recovery or disposal in suitable receptacles.

· **6.4 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.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 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.

Protect from humidity and water.

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

Store away from foodstuffs.

Do not store together with oxidising and acidic materials.

· **Further information about storage conditions:** Keep container tightly sealed.

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

SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **DNELs:** No further relevant information available.

· **PNECs:** No further relevant information available.

· **8.2 Exposure controls**

· **Engineering measures** Provide adequate ventilation.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Avoid close or long term contact with the skin.

Avoid contact with the eyes.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· **Respiratory protection:**

Not required under normal conditions of use.

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when high concentrations are present.

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OSHA GHS

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- **Protection of hands:**

Rubber gloves

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Sensibilisation by the components in the glove materials is possible.

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR

Nitrile rubber, NBR

Neoprene gloves

Natural rubber, NR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- **Body protection:**

Not required under normal conditions of use.

Protection may be required for spills.

- **Limitation and supervision of exposure into the environment:** No special requirements.

- **Risk management measures:**

See Section 7 for additional information.

No special requirements.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form:

Liquid

Colour:

Dark green

- **Odour:**

Characteristic

- **Odour threshold:**

Not determined.

- **pH-value:**

Not determined.

- **Melting point/Melting range:**

Not determined.

- **Boiling point/Boiling range:**

Not determined.

- **Flash point:**

>100 °C (>212 °F)

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Safety Data Sheet
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OSHA GHS

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· Flammability (solid, gaseous):	Not applicable.
· Auto/Self-ignition temperature:	>260 °C (>500 °F)
· Decomposition temperature:	Not determined.
· Self-igniting:	Product is not self-igniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 20 °C (68 °F):	0,7 hPa (1 mm Hg)
· Density at 20 °C (68 °F):	0,86 g/cm ³ (7,177 lbs/gal)
· Relative density:	Not determined.
· Vapour density:	Not determined.
· Evaporation rate:	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Reacts with strong oxidising agents.
Reacts with strong acids.
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials** No further relevant information available.
- **10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide
Nitrogen oxides
Danger of forming toxic pyrolysis products.

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Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

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Trade name: Break-Free CLP Liquid

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SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** None.
- **Primary irritant effect**
- **Skin corrosion/irritation:** Slight irritant effect on skin and mucous membranes.
- **Serious eye damage/irritation:** Slight irritant effect on eyes.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **Carcinogenic categories**

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Acute effects (acute toxicity, irritation and corrosivity):** May be fatal if swallowed and enters airways.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information:**
- **General notes:**
Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Cont'd. on page 8)

Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date: February 23, 2016

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Trade name: Break-Free CLP Liquid

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- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Smaller quantities can be disposed of with household waste.
Product is recyclable as a waste oil. Deliver unused and/or contaminated product to waste oil collectors.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 14.2 UN proper shipping name | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 14.3 Transport hazard class(es) | |
| · DOT, ADR, IMDG, IATA | |
| · Class | Not Regulated |
| · 14.4 Packing group | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**
- **Section 355 (extremely hazardous substances):**
- None of the ingredients are listed.

(Cont'd. on page 9)

Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date: February 23, 2016

Revision: February 23, 2016

Trade name: Break-Free CLP Liquid

(Cont'd. from page 8)

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

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California):**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **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.

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

None of the ingredients are listed.

- **Carcinogenic Categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

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

None of the ingredients are listed.

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

None of the ingredients are listed.

- **Canada**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0,1%)**

None of the ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Relevant phrases**

H304 May be fatal if swallowed and enters airways.

(Cont'd. on page 10)

Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
OSHA GHS

Printing date: February 23, 2016

Revision: February 23, 2016

Trade name: Break-Free CLP Liquid

(Cont'd. from page 9)

H332 Harmful if inhaled.

• Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
WHMIS: Workplace Hazardous Materials Information System (Canada)
Acute Tox. 4: Acute toxicity, Hazard Category 4
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

• 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

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name BROWNELLS RUST PREVENTIVE NO. 2, PINT
Version # 07
Issue date 05-19-2014
Revision date 11-11-2014
Supersedes date 11-11-2014
CAS # Mixture
Product code 083-019-016
Manufacturer information BROWNELLS, INC.
200 South Front Street
Montezuma, Iowa 50171
United States
www.brownells.com
(641) 623-5401
INFOTRAC Registrant #79335
24 hour Emergency Number, Domestic: (800) 457-4280
24 hour Emergency Number, Foreign: +1(352) 323-3500

2. Hazards Identification

Emergency overview Danger

Combustible liquid and vapor.

May be ignited by heat, sparks or flames.

Harmful in contact with eyes. Irritating to eyes and skin. Irritating to respiratory system. Suspected of causing genetic defects. Cancer hazard. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs. May cause drowsiness or dizziness. Prolonged exposure may cause chronic effects. Dangerous for the environment if discharged into watercourses. Toxic to aquatic organisms.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Inhalation. Skin contact. Eye contact.

Eyes Do not get this material in contact with eyes. Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin Avoid contact with the skin. May cause skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation Avoid breathing dust/fume/gas/mist/vapors/spray. Irritating to respiratory system. Breathing vapors in excess of the exposure limit may cause headache, dizziness, or nausea. Prolonged inhalation may be harmful. May cause cancer by inhalation.

Ingestion Do not ingest. May cause nausea and discomfort. Lung damage may be caused by aspiration. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Eyes. Respiratory system. Skin.

Chronic effects Breathing vapors in excess of the recommended exposure limit may cause headache, dizziness or nausea. Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Conjunctiva. Ingestion may cause aspiration leading to lung damage. Ingestion may cause nausea or discomfort. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Inhalation of a component's mists may cause irritation of the upper respiratory tract. Contact with a component may cause irritation to the skin and may cause a defatting effect with prolonged contact. A component may cause may cause eye irritation.

Signs and symptoms

Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Discomfort in the chest. Shortness of breath. Corneal damage. Narcosis. Decrease in motor functions. Behavioral changes. Coughing. Conjunctivitis. Irritating to mouth, throat, and stomach. Skin irritation. Defatting of the skin. Rash. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Prolonged exposure may cause chronic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Potential environmental effects

Toxic to aquatic organisms. Components of this product are hazardous to aquatic life. May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
PETROLEUM DISTILLATES, HYDROTREATED LIGHT	64742-47-8	40 - 60
SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATIC	64742-88-7	40 - 60
CALCIUM BIS(DINONYLNAPHTHALENESULPHONATE)	57855-77-3	2.5 - 10
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	2.5 - 10
DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC	64741-97-5	2.5 - 10
MINERAL OIL	Mixture	2.5 - 10
PARAFFIN WAXES (PETROLEUM), HYDROTREATED	64742-51-4	2.5 - 10
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC	64742-65-0	2.5 - 10
Other components below reportable levels		1 - 2.5

4. First Aid Measures

First aid procedures

Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Get medical attention immediately. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Skin contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin. Launder contaminated clothing before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Ingestion

Do not induce vomiting. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Call a physician immediately. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Notes to physician

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Show this material safety data sheet (MSDS) to the doctor in attendance.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation.

5. Fire Fighting Measures

Flammable properties

Material will float and may ignite on surface of water. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam.

Unsuitable extinguishing media

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

Protection of firefighters

Specific hazards arising from the chemical

Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat.

Protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and NIOSH approved self-contained breathing apparatus (SCBA).

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Use water to cool containers exposed to fire. Move containers from fire area if you can do so without risk. Water stream directed into fire may cause frothing and increase fire intensity. Water runoff can cause environmental damage. Some of these materials, if spilled, may evaporate leaving a flammable residue.

Hazardous combustion products

Thermal decomposition may yield oxides of carbon and sulfur.

General fire hazards

Combustible liquid.

6. Accidental Release Measures

Personal precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Avoid inhalation of vapors or mists.

Environmental precautions

Avoid release to the environment. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so.

Methods for containment

The product is immiscible with water and will spread on the water surface. Dike the spilled material where this is possible. Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Methods for cleaning up

Clean up in accordance with all applicable regulations.

Large Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product, sweep up material, and transfer to a container for disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Use only with adequate ventilation. Do not breathe dust/mist/vapors. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Do not eat, drink or smoke when using the product. Wash thoroughly after handling. Take precautionary measures against static discharge. Handle in accordance with good industria hygiene and safety practice. Avoid release to the environment.

Storage

Store in a cool, dry place out of direct sunlight. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store locked up. Store in a closed container away from incompatible materials. See Section 10 of the MSDS for incompatible materials. Keep in an area equipped with sprinklers. Take precautionary measures against static discharge. The pressure in sealed containers can increase under the influence of heat. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values Components

Components	Type	Value	Form
DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)	TWA	5 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)	PEL	5 mg/m3	Mist.
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	

Biological limit values

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

Engineering controls

Ensure adequate ventilation, especially in confined areas. Provide eyewash station and safety shower.

Personal protective equipment**Eye / face protection**

Do not get in eyes. Chemical goggles are recommended.

Skin protection

Avoid contact with the skin. Use long sleeves to minimize skin exposure. If splashing is expected use apron or overalls.

Respiratory protection

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever work place conditions warrant a respirator's use.

Hand protection

Wear appropriate chemical resistant gloves.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Keep away from food and drink.

9. Physical & Chemical Properties**Appearance****Physical state**

Liquid.

Form

Liquid.

Color

Clear, dark amber.

Odor

Not available.

Odor threshold

Not available.

pH

Not available.

Vapor pressure

Not available.

Vapor density

Not available.

Boiling point

Not available.

Melting point/Freezing point

Not available.

Solubility (water)

Insoluble.

Specific gravity

Not available.

Relative density

Not available.

Flash point

150.0 °F (65.6 °C)

Flammability limits in air, upper, % by volume

Not available.

Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
Evaporation rate	< 1 BuAc
Partition coefficient (n-octanol/water)	Not available.
Other data	
Decomposition temperature	Not available.
Flammability (solid, gas)	Not available.

10. Chemical Stability & Reactivity Information

Chemical stability	Product is stable when in closed container at room temperature under normal storage and handling conditions.
Conditions to avoid	Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition may release oxides of carbon and sulfur.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects	Irritating to eyes, respiratory system and skin. Inhalation of vapors exceeding the exposure limit may cause nausea, headache, or dizziness. Narcotic effects. Causes eye burns. Ingestion may cause nausea or discomfort.
Local effects	Components of the product may be absorbed into the body through the skin. Irritating to respiratory system. Irritating to skin. Contact may irritate or burn eyes.
Chronic effects	Breathing vapors in excess of the recommended exposure limit may cause headache, dizziness or nausea. Preexisting pulmonary and dermatological disorders may be aggravated by exposure to hazardous components. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Conjunctiva. Ingestion may cause aspiration leading to lung damage. Ingestion may cause nausea or discomfort. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Inhalation of a component's mists may cause irritation of the upper respiratory tract. Contact with a component may cause irritation to the skin and may cause a defatting effect with prolonged contact. A component may cause may cause eye irritation.
Carcinogenicity	Hazardous by OSHA criteria. Cancer hazard.
ACGIH Carcinogens	
DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)	A4 Not classifiable as a human carcinogen.
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	A2 Suspected human carcinogen.
IARC Monographs. Overall Evaluation of Carcinogenicity	
DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)	3 Not classifiable as to carcinogenicity to humans.
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	1 Carcinogenic to humans.
US NTP Report on Carcinogens: Known carcinogen	
PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)	Known To Be Human Carcinogen.
Skin corrosion/irritation	May be irritating to the skin.
Mutagenicity	Suspected of causing genetic defects.

Symptoms and target organs Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Discomfort in the chest. Shortness of breath. Coughing. Narcosis. Skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Rash. Conjunctivitis. Corneal damage. Irritating to mouth, throat, and stomach. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Decrease in motor functions. Behavioral changes. Prolonged exposure may cause chronic effects.

12. Ecological Information

Ecotoxicity Toxic to aquatic life with long lasting effects.
Environmental effects Not available.
Aquatic toxicity Not available.
Persistence and degradability Not available.
Bioaccumulation / accumulation Not available.
Mobility in environmental media Not available.
Other adverse effects Not available.

13. Disposal Considerations

Disposal instructions Dispose of in accordance with current, applicable local, state, and federal regulations.
Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not listed.

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

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5) 1.0 % N230

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5) Listed. N230

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

Not regulated.

CERCLA (Superfund) reportable quantity, lbs

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

Section 302 extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

International Inventories

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

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

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

US state regulations

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.

US. Massachusetts RTK - Substance List

DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)

PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)

PETROLEUM DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC (CAS 64742-65-0)

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

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)

PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)

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

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)

DISTILLATES (PETROLEUM), SOLVENT REFINED LIGHT NAPHTHENIC (CAS 64741-97-5)

PETROLEUM DISTILLATES, HYDROTREATED LIGHT (CAS 64742-47-8)

US. Rhode Island RTK

DIETHYLENE GLYCOL MONOBUTYL ETHER (CAS 112-34-5)

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1

Flammability: 2

Physical hazard: 0

NFPA ratings

Health: 1

Flammability: 2

Instability: 0

Disclaimer

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



The 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>Eye Contact: Can cause moderate eye irritation.</p> <p>Ingestion: Liquid should be practically non-toxic if ingested.</p> <p>Skin Contact: 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>Hygienic Practices- Wear safety glasses. Use rubber or nitrile gloves if in contact liquid, especially for prolonged periods.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapor or mist.</p> <p>Work Practices: 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.S. DOT, IATA, IMG Hazard Class: Not restricted.</p> <p>U.S. DOT Proper Shipping Name: None</p> <p>EPA- SARA Title III/CERCLA: Product may be regulated under Sections 311/312. This product contains no chemicals regulated under Section 304/CERCLA or Section 313.</p> <p>TSCA/DSL: 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>Spill Procedures: Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed down material.</p> <p>Waste Disposal: Disposal must be made in accordance with applicable federal, state and local regulations.</p>	<p>Stability: Mixing with sodium hypochlorite may release small amounts of formaldehyde gas.</p> <p>Storage/Disposal: 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



Crew Heavy Duty Toilet Bowl Cleaner

Revision: 2019-06-06

Version: 03.0

1. IDENTIFICATION

Product name: Crew Heavy Duty Toilet Bowl Cleaner
Product Code: 04560
SDS #: MS0800450
Recommended use:

- Disinfectant
- Cleaning product
- This product is intended to be used neat.

Uses advised against: Uses other than those identified are not recommended

Manufacturer, importer, supplier:

US Headquarters Diversey, Inc. 1300 Altura Rd., Suite 125 Fort Mill, SC 29708 Phone: 1-888-352-2249 SDS Internet Address: https://sds.diversey.com	Canadian Headquarters Diversey Canada, Inc. 3755 Laird Road Units 8-11 Mississauga, Ontario L5L 0B3 Phone: 1-800-668-7171
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Emergency telephone number: 1-800-851-7145; 1-651-917-6133 (Int'l)

2. HAZARDS IDENTIFICATION

Classification for the undiluted product

Skin corrosion/irritation	Category 1B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3
Metal Corrosion:	Category 1



Signal Word: Danger.

Hazard Statements

CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY CAUSE RESPIRATORY IRRITATION. MAY BE CORROSIVE TO METALS.

Precautionary Statements

Avoid contact with eyes, skin and clothing. Causes burns/ serious damage to mouth, throat and stomach. Keep only in original container. Avoid breathing vapors. Wash affected areas thoroughly after handling. Use only in a well-ventilated area. Wear chemical-splash goggles, chemical-resistant gloves and protective footwear. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes. 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 for at least 15 minutes. Immediately call a Poison Center (1-800-851-7145) or physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store in a well-ventilated place. Keep container tightly closed. Store in corrosive-resistant container with a resistant inner liner. Dispose of in accordance with all federal, state and local applicable regulations. SUPPLEMENTAL INFORMATION: Mix only with water. DO NOT MIX WITH AMMONIA, BLEACH OR OTHER CHLORINATED COMPOUNDS. Can react to release hazardous gases. May vigorously react with strong alkaline products resulting in spattering and excessive heat.

Health hazards not otherwise classified (HHNOC) - Not applicable
Crew Heavy Duty Toilet Bowl Cleaner

Physical hazards not otherwise classified (PHNOC) - Not applicable

Classification for the diluted product @ RTU

Hazard and Precautionary Statements

See undiluted product information above.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Classified Ingredients

Ingredient(s)	CAS #	Weight %
Water	7732-18-5	60 - 100%
Hydrochloric acid	7647-01-0	10 - 30%
Proprietary	TS*	0.5 - 1.5%
Alcohol, C12-C15, ethoxylated	68131-39-5	0.5 - 1.5%
Rosin, ethoxylated	61791-17-1	> 0.1 - < 1%
n-alkyl dimethyl benzyl ammonium chloride	68424-85-1	> 0.1 - < 1%
Trade Secret	Proprietary	> 0.1 - < 1%
Dye	4403-90-1	< 0.1%

*Exact percentages are being withheld as trade secret information

4. FIRST AID MEASURES

Undiluted Product:

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.

Skin: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water for at least 15 minutes.

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

Ingestion: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting unless directed to do so by medical personnel. Drink a cupful of milk or water.

Notes to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Most Important Symptoms/Effects: No information available.

Immediate medical attention and special treatment needed: Not applicable.

Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects.

Eyes: See undiluted product information above.

Skin: See undiluted product information above.

Inhalation: See undiluted product information above.

Ingestion: See undiluted product information above.

5. FIRE-FIGHTING MEASURES

Specific methods: No special methods required
Suitable extinguishing media: Not applicable.
Specific hazards: Corrosive material (See sections 8 and 10).

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

Extinguishing media which must not be used for safety reasons: No information available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Do not taste or swallow. Avoid breathing vapors or mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. Mix only with water. DO NOT MIX

WITH AMMONIA, BLEACH, OR OTHER CHLORINATED COMPOUNDS. May react to release hazardous gases. May vigorously react with strong alkaline products resulting in spattering and excessive heat. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

Storage: Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place.

Aerosol Level (if applicable): Not applicable.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

Ingredient(s)	CAS #	ACGIH	OSHA
Hydrochloric acid	7647-01-0	2 ppm (Ceiling)	5 ppm (Ceiling) 7 mg/m ³ (Ceiling)

Undiluted Product:

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment

Eye protection:	Chemical-splash goggles.
Hand protection:	Chemical-resistant gloves.
Skin and body protection:	Protective footwear. If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Evaporation Rate: No information available

Odor threshold: No information available.

Melting point/range: Not determined

Autoignition temperature: No information available

Solubility in other solvents: No information available

Density: 9.32 1.118

Bulk density: No information available

Flash point (°F): >200°F > 93.3 °C

Viscosity: No information available

VOC: 0 % *

Flammability (Solid or Gas): Not applicable

Sustained combustion: Not applicable

Explosion limits: - upper: Not determined **- lower:** Not determined

VOC % by wt. at use dilution: 0

Color: Opaque, Blue Green

Odor: Minty

Boiling point/range: Not determined

Decomposition temperature: Not determined Not applicable

Solubility: Completely Soluble

Relative Density (relative to water): 1.118

Vapor density: No information available

Vapor pressure: No information available.

Partition coefficient (n-octanol/water): No information available

Elemental Phosphorus: 0 % by wt.

pH: 1

Corrosion to metals: Metal corrosive

* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

10. STABILITY AND REACTIVITY

Reactivity:	Not Applicable
Stability:	The product is stable
Possibility of hazardous reactions:	May vigorously react with strong alkaline products resulting in spattering and excessive heat.
Hazardous decomposition products:	Hydrogen chloride.
Materials to avoid:	Strong bases. Ammonia. Do not mix with chlorinated products (such as bleach). Do not mix with any other product or chemical unless specified in the use directions.
Conditions to avoid:	Do not mix with any other product or chemical.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Eye contact, Skin contact, Inhalation, Ingestion

Delayed, immediate, or chronic effects and symptoms from short and long-term exposure

Skin contact: Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).

Eye contact: Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred

vision or loss of vision.

Ingestion: Causes burns/ serious damage to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

Inhalation: May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.

Sensitization: No known effects.

Target Organs (SE): None known

Target Organs (RE): None known

Numerical measures of toxicity

ATE - Oral (mg/kg): >5000

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by storage or disposal.

Waste from residues / unused products (undiluted product):

This product, as sold, if discarded or disposed, is a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

Waste from residues / unused products (diluted product):

This product, when diluted as stated on this SDS, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the waste solution meets RCRA criteria for hazardous waste. Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

Pesticide Storage:

Refer to product label.

Pesticide Disposal:

Refer to product label.

Container Disposal:

Refer to product label.

RCRA Hazard Class (undiluted product): D002 Corrosive Waste.

RCRA Hazard Class (diluted product): Not Applicable.

14. TRANSPORT INFORMATION

DOT (Ground) Bill of Lading Description: UN1789, HYDROCHLORIC ACID SOLUTION, 8, II

IMDG (Ocean) Bill of Lading Description: UN1789, HYDROCHLORIC ACID SOLUTION, 8, II

15. REGULATORY INFORMATION

International Inventories at CAS# Level

All components of this product are listed on the following inventories: U.S.A. (TSCA).

U.S. Regulations

EPA Reg. No. : 8155-3-70627

This chemical is a pesticide product registered by the United States 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

DANGER: CORROSIVE. Causes eye and skin damage. May be fatal if swallowed. Do not breathe vapor or fumes. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Use with adequate ventilation. PHYSICAL AND CHEMICAL HAZARDS: NEVER USE WITH CHLORINE PRODUCTS... these can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid. Do not use on PVD finished surfaces.

CERCLA/ SARA

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Hydrochloric acid	7647-01-0	10 - 30%	5000	5000	X

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Hydrochloric acid	X		

Canadian Regulations

Ingredient(s)	CAS #	NPRI
Hydrochloric acid	7647-01-0	X

16. OTHER INFORMATION

NFPA (National Fire Protection Association)

Rating Scale: (Low Hazard) 0 - 4 (Extreme Hazard)

Health 3
 Flammability 0
 Instability 0

Revision: 2019-06-06

Version: 03.0

Reason for revision: Not applicable
 Prepared by: North American Regulatory Affairs
 Additional advice: • Contains an added fragrance, see "Odor" heading in section 9 for specific description

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DuPont™ Grout Sealer product

Version 2.2

Revision Date 03/25/2011

Ref. 130000033966

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : DuPont™ Grout Sealer product
 MSDS Number : 130000033966

Importer/Distributor : DuPont
 1007 Market Street
 Wilmington, DE 19898

Telephone : 1-800-441-7515 (outside the U.S. 1-302-774-1000)

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Eyes

Fluorinated : May cause: Eye irritation, Discomfort, tearing, Blurred vision.
 Acrylic
 Copolymer

Inhalation

: Inhalation of decomposition products in high concentration may cause shortness of breath (lung oedema). Inhalation of aerosol or fine spray mist may cause serious respiratory problems.

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
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Water	7732-18-5	>97%
Fluorinated Acrylic Copolymer		<3 %

SECTION 4. FIRST AID MEASURES

- Skin contact : Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice.
- Inhalation : Move to fresh air. Oxygen or artificial respiration if needed. Symptoms may be delayed. Call a physician immediately.
- Ingestion : Call a physician or poison control centre immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General advice : When symptoms persist or in all cases of doubt seek medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

- Flammable Properties
- Thermal decomposition : > 200 °C (> 392 °F)
To avoid thermal decomposition, do not overheat.
Thermal decomposition can lead to release of irritating gases and vapours.
- Fire and Explosion Hazard : The product itself does not burn. Hazardous decomposition products formed under fire conditions. Hazardous combustion products: Hydrogen fluoride
Carbon dioxide (CO₂) Carbon monoxide Other hazardous decomposition products may be formed.
- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.


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Firefighting Instructions : Wear self contained breathing apparatus for fire fighting if necessary. Evacuate personnel to safe areas. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel) : Evacuate personnel to safe areas. Use personal protective equipment. Ventilate the area.

Spill Cleanup : Dam up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labelled containers.

Accidental Release Measures : Do not discharge to streams, ponds, lakes or sewers. Avoid subsoil penetration.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel) : Avoid formation of respirable particles. Do not breathe vapor or mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before re-use.

Handling (Physical Aspects) : To avoid thermal decomposition, do not overheat. Thermal decomposition can lead to release of irritating gases and vapours. Do not spray near open flame or heated surface.

Storage : Keep tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Use only in area provided with appropriate exhaust ventilation. Use an airless flow type of spray applicator. Keep spraying pressure below 4.1 bar (410


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kPa).

Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection : Additional protection: Impervious gloves

Eye protection : Wear safety glasses or coverall chemical splash goggles.

Skin and body protection : Lightweight protective clothing

Exposure Guidelines

Exposure Limit Values

None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid
 Color : milky
 Odor : mild
 pH : 4 - 5
 Boiling point : 100 °C (212 °F)
 % Volatile : > 97 %
 Specific Gravity : 0.9988

SECTION 10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Conditions to avoid : To avoid thermal decomposition, do not overheat.

Hazardous decomposition products : Carbon dioxide , Carbon monoxide, Hydrogen fluoride
 Incompletely burned carbon products
 Other hazardous decomposition products may be formed.


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SECTION 11. TOXICOLOGICAL INFORMATION

Fluorinated Acrylic Copolymer

Dermal ALD	:	> 5,000 mg/kg , rabbit
Oral ALD	:	> 11,000 mg/kg , rat
Inhalation 4 h ALC	:	>1600 mg/m3, rat
Skin irritation	:	No skin irritation, rabbit
Eye irritation	:	slight irritation, rabbit
Skin sensitization	:	Did not cause sensitization on laboratory animals., mice
Mutagenicity	:	Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Fluorinated Acrylic Copolymer

96 h LC50	:	Oncorhynchus mykiss (rainbow trout) 32 mg/l
96 h LC50	:	Pimephales promelas (fathead minnow) 50 - 500 mg/l
72 h EC50	:	Scenedesmus capricornutum (fresh water algae) 1.17 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 100 mg/l

Environmental Fate

Fluorinated Acrylic Copolymer

Biodegradability	:	Product is not expected to be biodegradable.
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal : In accordance with local and national regulations.



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SECTION 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

DSL Status : This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

WHMIS Classification : - Not WHMIS controlled.

SECTION 16. OTHER INFORMATION

MSDS preparation date : 03/25/2011

DuPont™ is a trademark of E. I. du Pont de Nemours and Company.
The DuPont Oval Logo is a registered trademark of E.I. du Pont de Nemours and Company.

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

Significant change from previous version is denoted with a double bar.



Spartan Chemical Company, Inc.
Material Safety Data Sheet

SECTION I: PRODUCT INFORMATION

Product Name or Number (as it appears on label):
DUST MOP/DUST CLOTH TREATMENT (AEROSOL)
Product Number: 6099

Product Division:
Janitorial

WAXIE

Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee OH 43537

Product/Technical Information: 1-(800)-537-8990
Medical Emergency: 1-(888)-314-6171 (24 hours)
Chemical Leak/Spill Emergency: CHEMTREC 1-(800) 424-9300 (24 hours)

Shipping Description: ORM-D, Consumer commodity

NFPA Ratings:	HMIS Ratings:
Health: 1- Slight Fire: 2 - Moderate Reactivity: 0 - Minimal	Health: 1- Slight Fire: 2 - Moderate Reactivity: 0 - Minimal Pers. Prot. Equip.: See Section VIII

SECTION II: HAZARDOUS INGREDIENTS

(Listed when present at 1% or greater, carcinogens at 0.1% or greater) All component chemicals are listed or exempted from listing on the "TSCA Inventory" of chemical substances maintained by the U.S. Environmental Protection Agency.

Chemical Name(s)	%Wt	CAS Registry No.	Table Z-1-A			NTP, IARC or OSHA Carcinogen
			TWA mg/m ³	STEL mg/m ³	CEILING mg/m ³	
Petroleum distillate	5-10	8052-41-3	2900 (OSHA) 525 (ACGIH)	Not Established	1800 (NIOSH)	No
Isobutane	5-10	75-28-5	1800 (ACGIH)	Not Established	Not Established	No
Propane	1-5	74-98-6	1800 (OSHA)	Not Established	Not Established	No

SECTION III: PHYSICAL DATA

Boiling Point: N/A	Vapor Pressure: Not Established
Vapor Density (AIR = 1): Not Established	Solubility in Water: Forms an emulsion
pH: 8.0 - 9.0	Specific Gravity (H ₂ O=1): 0.95
Evaporation Rate (but.ace.=1): <1	Percent Solid by Weight: 5-10
Physical State: Aerosol can (pressurized liquid)	
Appearance & Odor: Creamy emulsion, bland odor	

SECTION IV: FIRE & EXPLOSIVE HAZARD DATA

Flash Point: Concentrate: 156°F	Method Used: ASTM-D3065
Flammable Limits: Not Established	Flame Extension: 0" NFPA 30 B Storage Level 1 Aerosol.
Extinguishing Media: Water, Carbon dioxide, Dry Chemical.	
Special Fire Fighting Procedures: Water may be used to cool closed containers to prevent pressure build-up and possible rupture, venting or bursting of containers. Use equipment or shielding required to protect personnel against bursting, rupturing or venting containers.	
Unusual Fire & Explosive Hazards: At elevated temperatures (120°F/ 49°C) containers may vent, rupture or burst.	

SECTION V: HEALTH HAZARD DATA

Threshold Limit Value: Not Established

Primary Routes of Entry: Inhalation, Skin Contact, Eyes and Oral

Effects of Overexposure- May cause eye and skin irritation with symptoms such as pain, redness and swelling.
 Conditions to Avoid: May be harmful if swallowed with symptoms such as nausea, vomiting, pain and diarrhea. Inhalation of product vapors or mist may cause respiratory irritation. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause pulmonary injury. **Avoid contact with eyes and skin and clothing. Do not swallow. Avoid breathing product vapors or mist. Wash thoroughly with soap and water after handling .**

Conditions Aggravated by Use: Use of this product may aggravate preexisting skin; eye and respiratory disorders including asthma and dermatitis.

Emergency & First Aid Procedures :

Eyes: Flush eyes with water for at least 15 minutes. Remove contact lenses. Get medical attention if irritation persists.

Skin: Wash thoroughly with soap and water. Get medical attention if irritation persists.

Ingestion: Do not induce vomiting. Drink one or two glasses of water to dilute product. Get medical attention. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. Get medical attention if irritation persists.

Note to Physician: Contains Petroleum distillates. May cause chemical pneumonia if aspirated into the lungs.

SECTION VI: REACTIVITY DATA

Stability: Stable

Incompatible Materials: None known

Hazardous Decomposition Products: CO, CO₂

Hazardous Polymerization: Will Not Occur

SECTION VII: SPILL OR LEAK PROCEDURES**Steps to be Taken in Case**

Material is Released or Spilled: Ventilate area. Remove all sources of ignition. Clean up with inert materials and dispose of in accordance with all local, state and federal regulations.

Waste Disposal Method: Do not puncture or incinerate aerosol containers. Empty containers may be disposed of through normal channels. Full or partially filled containers are considered hazardous waste.

SECTION VIII: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not normally required when good general ventilation is provided. However, if exposure limits (see Section II) are exceeded or respiratory irritation occurs, use of a NIOSH approved respirator suitable for the use-conditions and chemicals in Section II should be considered.

Ventilation: Provide good general ventilation. Local exhaust ventilation may be necessary for some operations.

Protective Gloves(Specify Type): None required. Rubber or other impervious gloves may be worn for frequent or prolonged contact.

Eye Protection(Specify Type): None required.

Other Protective Equipment: See 29 CFR 1910.132-138 for further reference.

SECTION IX: SPECIAL PRECAUTIONS

Precautions; Handling & Storing: Contents under pressure. Do not use near fires, sparks, or flame. Do not store where temperatures could exceed 120°F.

Other Precautions: Keep out of reach of children.

© SCC 06/08/2012

Name: Ronald T. Cook

Title: Manager, Regulatory Affairs

DUST MOP/DUST CLOTH TREATMENT (AEROSOL)

Effective Date: 06/08/2012

Supersedes: 06/08/2009

Ref: 29 CFR 1910.1200 (OSHA)

Changes: General Review

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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.

February 10, 2012

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

S.C. Johnson Wax
 Racine, Wisconsin 53403-5011
 Phone: (414) 631-2777
 Emergency Phone: (800) 228-5635
 Extension 092
 International Emergency Phone:
 Extension 092

4=Very High
 3=High
 2=Moderate
 1=Slight
 0=Insignificant

HAZARD RATING	
HMIS	NFPA
0 Health	
4 Flammability	
0 Reactivity	

MATERIAL SAFETY DATA SHEET

SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: GLADE AIR FRESHENER - ALL FRAGRANCES			PRODUCT CODE: 10545-1	
CHEMICAL OR COMMON NAME: NA	DATE ISSUED: 02/05/92	SUPERSEDES: 10/30/87	MSDS SECTIONS WITH CHANGES: PREPARED BY: Terry A. Meyers Chemical Info. Adm.	

SECTION II-INGREDIENT INFORMATION

INGREDIENTS	WEIGHT %	EXPOSURE LIMIT
ISOBUTANE\PROPANE (CAS# 75-28-5, 74-98-6)	25-35	1000PPM (OSHA PEL) (PROPANE)
WATER	65-75	NA

SECTION III-PHYSICAL DATA

APPEARANCE/ODOR: DISPENSED AS A SPRAY MIST WITH FRAGRANT ODOR	SPECIFIC GRAVITY (H2O=1): 0.8
VAPOR PRESSURE (mm Hg): ND	PERCENT VOLATILE BY VOLUME (%): NA
SOLUBILITY IN WATER: Appreciable	VAPOR DENSITY (Air=1): ND
FREEZING POINT (°F): ND	BOILING POINT (°F): ND
PH: ND	EVAPORATION RATE (Butyl Acetate=1): NA
VOC (as packaged, minus H2O): ND	THEORETICAL VOC (lb/gal): ND

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT (°F) (Method Used): UNDER 20 (TCC) (PROPELLANT)
FLAMMABLE LIMITS: ND
EXTINGUISHING MEDIA: Foam, CO2, Dry Chemical, Water Fog.
SPECIAL FIREFIGHTING PROCEDURES: Normal fire fighting procedures may be used. Fight fire from maximum distance or protected area. Cool and use caution when approaching or handling fire-exposed containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS: No special hazards known.

SECTION V-HEALTH HAZARD DATA

PRIMARY ROUTE OF ENTRY: NA
SIGNS AND SYMPTOMS: NA
FIRST AID PROCEDURES: NA
MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:

MATERIAL SAFETY DATA SHEET

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S.C. Johnson Wax
1525 Howe Street
Racine, Wisconsin 53403

GLADE AIR FRESHENER - ALL FRAGRANCES
Product Number: 10545
Serial Number: 1

SECTION VI-REACTIVITY DATA

STABILITY:	Stable
STABILITY-CONDITIONS TO AVOID:	None known
INCOMPATIBILITY:	None known
HAZARDOUS DECOMPOSITION PRODUCTS:	When exposed to fire, produces normal products of combustion.
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS POLYMERIZATION-CONDITIONS TO AVOID:	None known

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:	Eliminate all ignition sources. Rinse affected area thoroughly with water.
WASTE DISPOSAL INFORMATION:	Recycle empty aerosol can to nearest steel recycling center. Use up package or give to someone who can.

SECTION VIII-SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:	No special requirements under normal use conditions.
VENTILATION:	General room ventilation adequate.
PROTECTIVE GLOVES:	No special requirements under normal use conditions.
EYE PROTECTION:	No special requirements under normal use conditions.
OTHER PROTECTIVE MEASURES:	NSR

SECTION IX-SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING:	CAUTION: CONTENTS UNDER PRESSURE. DO NOT SET ON STOVE OR RADIATOR OR KEEP WHERE TEMPERATURE WILL EXCEED 120 F AS CONTAINER MAY BURST. DO NOT PUNCTURE OR THROW IN FIRE. KEEP OUT OF REACH OF CHILDREN.
OTHER HANDLING AND STORAGE CONDITIONS:	Keep out of reach of children. Do not pressurize, cut, heat, weld or expose container to flame; explosion could occur.

SECTION X-ADDITIONAL INFORMATION

ADDITIONAL INFORMATION:	FACTORY MUTUAL LEVEL I AEROSOL
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SECTION XI-TRANSPORTATION INFORMATION

DOT CLASS:	
DOT #	
SHIPPING NAME:	
DOT NOTES:	

MATERIAL SAFETY DATA SHEET

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S.C. Johnson Wax 1525 Howe Street Racine, Wisconsin 53403	GLADE AIR FRESHENER - ALL FRAGRANCES Product Number: 10545 Serial Number: 1
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NA-Not Applicable, NE-Not Established, NSR-No Special Requirement, ND-Not Determined

The information herein is given in good faith. No warranty expressed or implied is made. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State, and local laws and regulations. The information contained in this form is confidential and is submitted solely for your organization's internal use.

MSDS 106 (Rev. 5-16/95)

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

**GOO
GONE**

Product: Goo Gone Automotive- 2071D

Revision Date: 05-Jun-2015

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: Goo Gone Automotive

Product Code: 2071D

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Cleaner

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufacturer: Goo Gone
755 Tri-State Parkway
Gurnee, IL 60031
855-364-8135

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Hazard Class	Category
Flammable Liquid	4
Skin Sensitization	1
Aspiration Hazard	1

Label Elements

Hazard Symbols(s):



Signal Word(s): Danger

Hazard Statement(s): Combustible liquid. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.

Precautionary Statement(s): Keep away from flames and hot surfaces. No smoking. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards

None known

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Petroleum distillates, hydrotreated light	64742-47-8	60-100
D-Limonene	5989-27-5	1-5
Orange, sweet, extract	8028-48-6	0.5-1.5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

**GOO
GONE**

Product: Goo Gone Automotive- 2071D

Revision Date: 05-Jun-2015

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Eye Contact: Rinse immediately with water for at least 15 minutes. Remove contact lenses, if worn. If irritation persists, seek medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash with soap and water. If irritation persists, seek medical attention.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May cause respiratory track irritation.

Eye Contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Products of combustion include but are not limited to: oxides of carbon.

Protective Equipment and Precautions for Firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protective equipment as required.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). For cleaning up scoop up material and place in a disposal container. Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Keep away from sources of ignition. No smoking. Avoid contact with skin and eyes. Avoid breathing fume/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.

General Hygiene Advice: Launder contaminated clothing before use. Wash hands before eating, drinking, or smoking.

Conditions for Safe Storage, Including any Incompatibilities

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

**GOO
GONE**

Product: Goo Gone Automotive- 2071D

Revision Date: 05-Jun-2015

Storage Conditions: Keep container closed when not in use. Store in a dry, cool, and well-ventilated area. Keep out of reach of children.

Incompatible Materials: None known.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated light (64742-47-8)	200 mg/m ³	100 ppm	Not available
D-Limonene (5989-27-5)	Not available	Not available	Not available
Orange, sweet, extract (8028-48-6)	Not available	Not available	Not available

Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Individual Protection Measures

Respiratory Protection: None required under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment.

Skin and Body Protection: Wear suitable protective clothing.

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

General Work/Hygienic Practices: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow clear liquid

Odor: Citrus

Odor threshold: Not determined

pH: Not determined

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: 85°C (185°F) TCC

Evaporation rate: Not determined

Flammability (solid, gas): Flammable

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density: 0.80

Solubility(ies): Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

**GOO
GONE**

Product: Goo Gone Automotive- 2071D

Revision Date: 05-Jun-2015

Possibility of hazardous reactions: None under normal use.

Conditions to avoid: Heat. Incompatible materials. Sources of ignition.

Incompatible materials: None known.

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

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

Product	
ATE (oral)	>2000 mg/kg, rat
ATE (dermal)	>2000 mg/kg, rabbit
ATE (inhalation)	Not available

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light (64742-47-8)	>5000 mg/kg, rat	>2000 mg/kg, rabbit	>5.2 mg/l/4h, rat
D-Limonene (5989-27-5)	4400 mg/kg, rat	>5000 mg/kg, rabbit	Not available
Orange, sweet, extract (8028-48-6)	>5000 mg/kg, rat	>5000 mg/kg, rabbit	Not available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Other adverse effects: No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

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

SECTION 14 – TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

DOT (Ground): Not Regulated- See 49 CFR 173.150(f)(2) as the product is not bulk packaged.

IATA (Air): Not Regulated

IMDG (Vessel): Not Regulated

SECTION 15 – REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

SECTION 16 – OTHER INFORMATION

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone Automotive- 2071D

Revision Date: 05-Jun-2015

Issue Date: 05-Jun-2015

Revision Date: 05-Jun-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 given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



CANBERRA CORPORATION SAFETY DATA SHEET

1. Identification

Product identifier: HUSKY WATER BASED 1210 STAINLESS STEEL CLEANER & POLISH

Recommended use: Cleaner

Recommended restrictions: None known.

Company information: CANBERRA CORP.
3610 N. HOLLAND-SYLVANIA RD
TOLEDO, OH 43615 United States

Phone: 419-841-6616

Emergency telephone US: 1-866-836-8855

2. Hazards Identification

GHS Classification: Classification of this mixture in accordance with paragraph (d) of §1910.1200.
Flammable Aerosols – Category 1
Aspiration Hazard - Category 1

Label Elements:



Symbol:

Signal word: **DANGER**

Hazard statements: Extremely flammable aerosol. May be fatal if swallowed and enters airways.

Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

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

Immediately call a POISON CENTER or doctor/physician.

See 4. First-Aid Measures for specific treatment.

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

Dispose of contents/container to an approved disposal facility.

Other Hazards: None known.

3. Composition / Information on Ingredients

Chemical characterization: Mixture of solvents and auxiliary agents.

Hazardous ingredients: The exact percentage of composition has been withheld as a trade secret.

10 - 20% Distillates (Petroleum), Hydrotreated Light CAS 64742-47-8

10 - 20% Butane CAS 106-97-8

2 - 10% Propane CAS 74-98-6

4. First-Aid Measures

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

Skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed: Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information: Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media: Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO₂).

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

Specific hazards arising from the chemical: Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire-fighting equipment/instructions: Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

General fire hazards: Extremely flammable aerosol.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: Refer to safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.

Environmental precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling: Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not re-use empty containers. Avoid breathing mist or vapor. Avoid prolonged or repeated contact with skin. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities: Level 1 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
Propane (CAS 74-98-6)	PEL	1800 mg/m3 (1000 ppm)

US. ACGIH Threshold Limit Values

Components	Type	Value
Butane (CAS 106-97-8)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Butane (CAS 106-97-8)	TWA	1900 mg/m3 (800 ppm)
Propane (CAS 74-98-6)	TWA	1800 mg/m3 (1000 ppm)

Appropriate engineering controls: Explosion-proof general and local exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection: Face shield is recommended. Wear safety glasses with side shields (or goggles).

Hand protection: Wear appropriate chemical resistant gloves. **Other:** Wear suitable protective clothing.

Respiratory protection: If permissible levels are exceeded use NIOSH organic vapor cartridge or an air-supplied respirator.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Physical state:** Gas.**Color:** Not available.**Odor threshold:** Not available.**pH:** 5.6 - 6.6 estimated**Evaporation rate:** Not available.**Flammability (solid, gas):** Not available.**Upper/lower flammability or explosive limits****Flammability limit – lower (%):** Not available.**Explosive limit - lower (%):** Not available.**Vapor pressure:** 47 - 67 psig @ 70F estimated**Solubility (water):** Not available.**Viscosity:** Not available.**Decomposition temperature:** Not available.**Form:** Aerosol.**Odor:** Not available.**Initial boiling point/boiling range:** 230.76 °F (110.42 °C) estimated**Melting point/freezing point:** Not available.**Relative density:** Not available.**Flash point:** -156.0 °F (-104.4 °C) Propellant estimated**Flammability limit – upper (%):** Not available.**Explosive limit - upper (%):** Not available.**Vapor density:** Not available.**Partition coefficient (n-octanol/water):** Not available.**Auto-ignition temperature:** 392 °F (200 °C) estimated**Specific gravity:** 0.948 estimated**10. Stability and reactivity****Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.**Chemical stability:** Material is stable under normal conditions.**Possibility of hazardous reactions:** None known under conditions of normal use. Hazardous polymerization does not occur.**Conditions to avoid:** Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.**Incompatible materials:** Strong oxidizing agents. Fluorine. Chlorine. Nitrates.**Hazardous decomposition products:** No hazardous decomposition products are known.**11. Toxicological information****Information on likely routes of exposure:****Ingestion:** Droplets of product aspirated into the lungs via ingestion or vomiting may cause a serious chemical pneumonia. Small quantities reaching lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia.**Inhalation:** Not available.**Skin contact:** No adverse effects due to skin contact are expected.**Eye contact:** Direct contact with eyes may cause temporary irritation.**Symptoms related to the physical, chemical and toxicological characteristics:** If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death. Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation.**Information on toxicological effects: Acute toxicity** May be fatal if swallowed and enters airways. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.**Acute****Species****Test Results***Dermal*

LD50

Rat

6796 mg/kg

Inhalation

LC50

Mouse

8614.3262 mg/l, 120 Minutes estimated

Oral

LD50

Rat

1945.5256 g/kg estimated

Skin corrosion/irritation: Prolonged skin contact may cause temporary irritation.**Serious eye damage/eye irritation:** Direct contact with eyes may cause temporary irritation.**Respiratory sensitization:** Not a respiratory sensitizer. **Skin sensitization:** Not expected to cause skin sensitization.**Germ cell mutagenicity:** No data available.**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 or developmental effects.**Specific target organ toxicity - single exposure:** Not classified.**Specific target organ toxicity - repeated exposure:** Not classified.**Aspiration hazard:** May be fatal if swallowed and enters airways.**12. Ecological information****Ecotoxicity:** Harmful to aquatic life with long lasting effects.**Persistence and degradability:** No data is available on the degradability of this product.**Bioaccumulative potential:** No data available.**Partition coefficient n-octanol / water (log Kow):** Butane 2.89

Propane 2.36

Mobility in soil: No data available.**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations.

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

Contaminated packaging: Empty containers should be taken to an approved waste site for recycling or disposal. Emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT: UN number UN1950 **UN proper shipping name** Aerosols, flammable **Class** 2.1

Packing group: Not applicable.

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

Packaging exceptions: Product meets the exception requirements of section 173.306 and may be shipped as a limited quantity.

15. Regulatory information

US federal regulations:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

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 – Yes Delayed Hazard - No

Fire Hazard – Yes 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): Butane, Propane

Safe Drinking Water Act (SDWA): Not regulated.

US state regulations

US. Massachusetts RTK - Substance List US. Rhode Island RTK

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

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

Butane, Propane

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.

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

Issue date 01-05-2015 **Version #** 01

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



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product ID: T-AUD0736
Product Name: IVORY ENAMEL
Product Use: Paint product.
Print date: 24/Apr/2014
Revision Date: 24/Apr/2014

Company Identification

The Valspar Corporation
PO Box 1461
Minneapolis, MN 55440

Manufacturer's Phone: 1-612-851-7000

24-Hour Medical Emergency Phone: 1-888-345-5732

2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Harmful if absorbed through skin.
- Can be absorbed through skin.
- May cause sensitization by skin contact.

Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- May cause chemical pneumonia.
- May cause pulmonary edema.
- May cause sensitization by inhalation.
- May cause damage to nasal and respiratory passages.

Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Kidney injury may occur.
- Liver injury may occur.
- Hearing loss.
- Blood disorders
- Unconsciousness
- Contains glycol ether which has been shown to cause blood effects damage in laboratory animals.

This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Possible sensitization.
- Contains formaldehyde which is considered a potential carcinogen by the Occupational Health and Safety Administration.

Teratogens:

- May cause birth defects.
- Female reproductive toxin.

Carcinogens:

- Possible cancer hazard. Contains material which may cause cancer based on animal data.
- Cancer hazard. Contains material which can cause cancer.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
TITANIUM DIOXIDE 13463-67-7	25 - 30	Titanium dioxide
ISOBUTYL ALCOHOL 78-83-1	15 - 20	Isobutyl alcohol
TOLUENE 108-88-3	5 - 10	Toluene
XYLENE 1330-20-7	5 - 10	Xylenes (o-, m-, p- isomers)
BUTYL ACETATE 123-86-4	1 - 5	n-Butyl acetate
N-BUTYL ALCOHOL 71-36-3	1 - 5	n-Butyl alcohol

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	Ethylene glycol monopropyl ether
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
PROPRIETARY ADDITIVE	1 - 5	PROPRIETARY ADDITIVE
ETHYLBENZENE 100-41-4	1 - 5	Ethyl benzene
FORMALDEHYDE 50-00-0	1 - 1	Formaldehyde

If this section is blank there are no hazardous components per OSHA guidelines.

4. FIRST AID MEASURES

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing.

Medical conditions aggravated by exposure:

Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	40
Flash point (Celsius):	4
Lower explosive limit (%):	1
Upper explosive limit (%):	11
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Oxidizing Material

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment**Eye and face protection:**

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

Skin protection:

Appropriate chemical resistant gloves should be worn.

Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Exposure Guidelines**OSHA Permissible Exposure Limits (PEL's)**

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	25 - 30	15 mg/m ³ TWA dust total		
ISOBUTYL ALCOHOL 78-83-1	15 - 20	100 ppm TWA 300 mg/m ³ TWA		
TOLUENE 108-88-3	5 - 10	200 ppm TWA	= 300 ppm Ceiling	
XYLENE 1330-20-7	5 - 10	100 ppm TWA 435 mg/m ³ TWA		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA 710 mg/m ³ TWA		
N-BUTYL ALCOHOL 71-36-3	1 - 5	100 ppm TWA 300 mg/m ³ TWA		
PROPRIETARY INERT	1 - 5	20 mppcf or 80 mg/m ³ / %SiO ₂		
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA 435 mg/m ³ TWA		
FORMALDEHYDE 50-00-0	.1 - 1	0.75 ppm TWA		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	25 - 30	10 mg/m ³ TWA			
ISOBUTYL ALCOHOL 78-83-1	15 - 20	50 ppm TWA			
TOLUENE 108-88-3	5 - 10	20 ppm TWA			Can be absorbed through the skin.
XYLENE 1330-20-7	5 - 10	100 ppm TWA	150 ppm STEL		
BUTYL ACETATE 123-86-4	1 - 5	150 ppm TWA	200 ppm STEL		
N-BUTYL ALCOHOL 71-36-3	1 - 5	20 ppm TWA			
PROPRIETARY INERT	1 - 5	1 mg/m ³ TWA respirable fraction			
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA	125 ppm STEL		
FORMALDEHYDE 50-00-0	.1 - 1			0.3 ppm Ceiling	

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	30.075188 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	4
Boiling point:	222.8°F (106°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	10.41

9. PHYSICAL PROPERTIES

Specific Gravity:	1.25
Evaporation rate (butyl acetate = 1.0):	2.24
Flash point (Fahrenheit):	40
Flash point (Celsius):	4
Lower explosive limit (%):	1
Upper explosive limit (%):	11
Autoignition temperature:	not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. Metal oxide fumes. Ammonia compounds. Nitrogen compounds.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE 13463-67-7	25 - 30	> 10000 mg/kg Oral LD50 Rat
ISOBUTYL ALCOHOL 78-83-1	15 - 20	= 2460 mg/kg Oral LD50 Rat > 2000 mg/kg Dermal LD50 Rabbit > 6.5 mg/L Inhalation LC50 Rat 4 h
TOLUENE 108-88-3	5 - 10	= 12.5 mg/L Inhalation LC50 Rat 4 h = 12124 mg/kg Dermal LD50 Rat = 636 mg/kg Oral LD50 Rat = 8390 mg/kg Dermal LD50 Rabbit > 26700 ppm Inhalation LC50 Rat 1 h
XYLENE 1330-20-7	5 - 10	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
BUTYL ACETATE 123-86-4	1 - 5	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
N-BUTYL ALCOHOL 71-36-3	1 - 5	= 3400 mg/kg Dermal LD50 Rabbit = 790 mg/kg Oral LD50 Rat = 8000 ppm Inhalation LC50 Rat 4 h > 17.7 mg/L Inhalation LC50 Rat 4 h
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5	= 3089 mg/kg Oral LD50 Rat = 960 µL/kg Dermal LD50 Rabbit
PROPRIETARY INERT	1 - 5	> 5000 mg/kg Oral LD50 Rat
ETHYLBENZENE 100-41-4	1 - 5	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat
FORMALDEHYDE 50-00-0	.1 - 1	= 0.578 mg/L Inhalation LC50 Rat 4 h = 500 mg/kg Oral LD50 Rat

Mutagens/Teratogens/Carcinogens:

Possible mutagen

May cause birth defects. Female reproductive toxin.

Possible cancer hazard. Contains material which may cause cancer based on animal data. Cancer hazard. Contains material which can cause cancer.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
TOLUENE 108-88-3	5 - 10	Listed. initial date 1/1/91 - developmental toxicity	

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
TOLUENE 108-88-3	5 - 10	Listed. Initial date 8/1/09 - female reproductive toxicity	
ETHYLBENZENE 100-41-4	1 - 5		Listed. initial date 6/11/04 - carcinogen
FORMALDEHYDE 50-00-0	.1 - 1		Listed. initial date 1/1/88 - carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	25 - 30			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	1 - 5			Monograph 77 [2000]
FORMALDEHYDE 50-00-0	.1 - 1	Supplement 7 [1987] Monograph 62 [1995] Supplement 7 [1987]		

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens
FORMALDEHYDE 50-00-0	.1 - 1		Reasonably Anticipated To Be A Human Carcinogen

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	25 - 30	Present		
ETHYLBENZENE 100-41-4	1 - 5	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans
FORMALDEHYDE 50-00-0	.1 - 1	Present	Irritant and potential cancer hazard - see 29 CFR 1910.1048	A2 Suspected Human Carcinogen

12. ECOLOGICAL DATA

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

UN ID Number (msds): UN1263
 Proper Shipping Name: PAINT
 Hazard Class: 3
 Packing Group: II

U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

Reportable Quantity Description:

International Air Transport Association (IATA):

UN/ID No: UN1263
 Proper shipping name: Paint
 Hazard Class: 3
 Packing Group: II

International Maritime Organization (IMO):

UN/ID No: UN1263
 Proper shipping name: PAINT
 Hazard Class: 3
 Packing Group: II
 Marine Pollutant: No

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
ISOBUTYL ALCOHOL 78-83-1	15 - 20			5000
TOLUENE 108-88-3	5 - 10		form R reporting required for 1.0% de minimis concentration	1000
XYLENE 1330-20-7	5 - 10		form R reporting required for 1.0% de minimis concentration	100
BUTYL ACETATE 123-86-4	1 - 5			5000
N-BUTYL ALCOHOL 71-36-3	1 - 5		form R reporting required for 1.0% de minimis concentration	5000
ETHYLENE GLYCOL MONOPROPYL ETHER 2807-30-9	1 - 5		YES	

15. REGULATORY INFORMATION

ETHYLBENZENE 100-41-4	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
FORMALDEHYDE 50-00-0	.1 - 1	EPCRA RQ = 100 lb	form R reporting required for 0.1% de minimis concentration	100

SARA 311/312 Hazard Class:

Acute: yes
 Chronic: yes
 Flammability: yes
 Reactivity: no
 Sudden Pressure: no

U.S. STATE REGULATIONS:

Right to Know:

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

ISOBUTYL ALCOHOL	78-83-1
ETHYLBENZENE	100-41-4
TOLUENE	108-88-3
XYLENE	1330-20-7
PROPRIETARY INERT	Trade Secret
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
FORMALDEHYDE	50-00-0
N-BUTYL ALCOHOL	71-36-3
BUTYL ACETATE	123-86-4
PROPRIETARY ADDITIVE	Trade Secret
ETHYLENE GLYCOL MONOPROPYL ETHER	2807-30-9

Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY ADDITIVE	Trade Secret

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

16. OTHER INFORMATION

Health: 2*
Flammability: 3
Reactivity: 1
PPE: X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information:

Prepared By: Regulatory Affairs Department
Print date: 24/Apr/2014
Revision Date: 24/Apr/2014



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Hydro-Sonic Cleaning Solution Non-Ammoniated PCN: 110

Use: Ultrasonic Cleaning Solution.

Manufacturer: L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA.

Publication Date: 3/3/2015

REV: J

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 within the United States. Or (01) 703-527-3887 (USA) for International collect calls.

2. HAZARDS IDENTIFICATION



WARNING! IRRITANT, HARMFUL IF SWALLOWED.

Acute Eyes: Direct contact causes irritation, redness and possible tearing. Use good ventilation to minimize exposure.

Acute Skin: Prolonged or repeated contact causes redness, and drying of the skin.

Acute Inhalation: Breathing high concentrations of vapors or mists will cause irritation to the respiratory tract.

Acute Ingestion: Will cause irritation to the digestive tract and signs of nervous system depression

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
WATER	7732-18-5	40- 55
OLEIC ACID	112-80-1	2-8
TERPENE HYDROCARBONS	BLEND N/A	5-15
2- PROPOXYETHANOL	2807-30-9	20 – 25
QUATERNARY AMMONIUM CHLORIDE	68610-19-5	1 - 5
DODECYLTHIOETHOXYLATE	9004-83-5	1 - 5
MONOETHANOLAMINE	141-43-5	1 - 5
SODIUM DODECYLBENZENE SULFONATE	25155-30-0	1 – 5
ETHOXYLATED PROPOXYLATED ALCOHOLS	68603-25-8	1 - 5
PINE OIL	8002-09-3	1 - 5

The exact concentration of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure: Wash thoroughly with water. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: Seek immediate medical attention. DO NOT INDUCE VOMITING.

MEDICAL CONDITIONS POSSIBLY AGGRAVATED BY EXPOSURE: Skin contact may aggravate existing skin disease.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Suitable Extinguishing Media: Extinguish with dry chemical, CO₂ or a BC/ABC extinguisher.

Special Fire Fighting Procedures: None Known

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire condition) Oxides of carbon and nitrogen and sulfur

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Mop up spill and dispose of by dilution to a sanitary sewer system as permitted by local, state and federal regulations.

Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: 39 to 90⁰F. Protect from freezing. . **HANDLING:** AVOID CONTACT WITH SKIN, EYES OR CLOTHING. Keep away from children. Use with adequate ventilation. Keep away from heat, sparks and flame. This is a concentrate. Use care to dilute properly. Keep container closed. Do not mix with any other solution. Do not add any other ingredients to this solution.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General: These recommendations provide general guidance for handling of this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

Exposure Guidelines: Exposure limits are recommended worker breathing limits. The following limits apply to this material:

INGREDIENTS

LIMITS

INGREDIENTS

LIMITS

Water	None established	Monoethanolamine	3 ppm OSHA/PEL
Oleic Acid	None established	Ethoxylated Propoxylated Alcohols	None established
2-Propoxyethanol	None established	Sodium Dodecylbenzene Sulfonate	None established
Quaternary Ammonium Chloride	400 ppm OSHA/TWA	Dodecylthioethoxylate	None established
Pine Oil	None established		

Engineering Controls: Normal room ventilation.

Respiratory Controls: For reasonable uses of this material, respiratory protection should not be necessary.

Eye/Face Protection: Safety glasses to protect from splashing.

Skin Protection: Rubber or plastic gloves to avoid drying and irritation to the skin.

Work Practice Control: Normal hygiene in the work area should be taken when working with or handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

pH: 10 to 11 (as concentrate)

Water Solubility: Soluble

Freezing Point Range: 6°F

Vapor Pressure: Not established

Flash Point: 117 °F (47.2 °C) **Method:** Tag Closed Cup

Flammability limits (vol/vol %): Lower: No Data Upper: No Data

Percent volatile by volume: Approximately 60% by volume **V.O.C. (calculated):** 3.14 lbs. / gal or 378.8 grams / l. **V.O.C. (calculated):** at recommended dilution 1 part to 7 parts of water 0.3925 lbs/gallon or 47.35 grams / l.

Color: Amber

Specific Gravity: 0.98

Melting Point Range: Not available

Boiling Point: Not established

Vapor Density: Not established

Odor: Mild pine odor

Odor Threshold: Not available

Evaporation Rate: Not Applicable

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: Not available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Heat and open flame

Materials/Chemicals to be avoided: Strong acids, strong oxidizing agents, aluminum, magnesium, zinc.

Decomposition Type: Thermal: Oxides of carbon, nitrogen and sulfur

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: Irritating to eyes.

Acute Skin Irritation: No test data found for product.

Acute Dermal Toxicity: No test data found for product.

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: No test data found for product.

Acute Oral Toxicity:

LD50 (rat) = 1085 mg / .kg for monoethanolamine

LD50 (rat) = 3089 mg / /kg 2-Propoxy ethanol

LD50 (rat) = 438 mg / kg for Sodium Dodecylbenzene Sulfonate **LD50 (rat) = 2.4 ml/kg for Ethoxylated Propoxylated Alcohols**

LD50 (rat) = 3.0 gm / kg for Dodecylthioethoxylate

LD50 (rat) = 2.4 ml/kg for Ethoxylated Propoxylated Alcohols

LD50 (rat) = 74 gm/ kg for Oleic Acid

LD50 (rat) = Not available for Quaternary ammonium chloride

LD50 (rat) = 3200 mg/ kg for terpene

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, and IARC OR

ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information: No data found.

13. DISPOSAL CONSIDERATIONS

This product can be disposed in sanitary sewer system where permitted by local, federal and state regulations.

14. TRANSPORTATION INFORMATION

Classification for ground and ocean shipments UN 1993, Flammable Liquid, N.O.S. (2-propoxyethanol) Limited Quantity. Not packed for air shipments. Do not stack cartons more than five high.

15. REGULATORY INFORMATION

Inventory Issues: All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS/ELINS chemical listings

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

2

2

0

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MSDS CHANGES

REV

I

J

DATE

2/20/13

3/3/15

DESCRIPTION OF CHANGE

Update Transport information

SDS Format

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This Hydro-Sonic Cleaning Solution Non Ammoniated has been prepared by L&R Manufacturing Company.



SAFETY DATA SHEET

1. Identification of Substance and Manufacturer:

Safety Ultrasonic Weapon Lubricating Solution PCN: 212

Use: Ultrasonic Lubricant for Weapons. To be used only for lubricating applications as specified. Product is not intended to be heated. In no case should the solution be heated above 50 ° C.

Manufacturer: L&R Manufacturing Company, 577 Elm Street, P.O. Box 607 Kearny, NJ 07032-0607 USA.

Publication Date: 11/13/2014

REV: J

Product information call 201-991-5330 www.lrultrasonics.com

For emergencies involving a spill, leak fire or accident contact CHEMTREC 800-424-9300 within the United States. Or (01) 703-527-3887 (USA) for International collect calls.

2. HAZARDS IDENTIFICATION



WARNING! IRRITANT. MAY BE HARMFUL IF SWALLOWED.

CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY BE HARMFUL IF INHALED.

MAY CAUSE EYE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE SKIN AND CAUSE IRRITATION AND BURNS.

A: WARNING STATEMENT:

Good industrial hygiene practices should be used when handling this material.

Eye Contact: Direct contact may cause mild irritation. Symptoms include stinging, tearing and redness.

Skin Contact: May cause mild skin irritation. Symptoms may include redness and burning of skin.

Inhalation: Breathing this material may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits.

Ingestion: Swallowing this material may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Chronic Effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogen.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Percentage
Distillates (petroleum), hydrotreated light	64742-47-8	93-98
Solvent naphtha (petroleum), medium aliph.	64742-88-7	93-98
Polydimethylsiloxane	63148-62-9	1-2
White Oil	8042-47-5	1-5
Blue dye mixture	N/A	0.01-.06

The exact concentration of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General Information: Consult a physician. Show this safety data sheet to the doctor.

Eye Exposure: Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention.

Skin Exposure: Wash thoroughly with water. If irritation or redness develops, seek medical attention.

Inhalation: If respiratory irritation or distress occurs, move victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

Ingestion: Seek immediate medical attention. Contact a physician, medical facility, or Poison control center for advice whether to induce vomiting. If possible do not leave individual unattended.

Note to physician: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity. Inhalation of high concentrations of this material may be associated with cardiac arrhythmias. Sympathomimetic drugs may imitate cardiac arrhythmias in the person exposed to this material.

5. FIRE FIGHTING MEASURES

FIRE HAZARD DATA:

Suitable Extinguishing Media: Extinguish with dry chemical, CO2, Water Spray

Unsuitable Extinguishing Media: Do not use a solid stream of water, since the stream will scatter and spread the fire. Water spray may be used to keep fire exposed containers cool.

Special Fire Fighting Procedures: Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting.

Unusual Fire and Explosion Hazards: Vapors are heavier than air and may travel along the ground. Closed containers may explode due to build up of pressure when exposed to extreme heat.

Hazardous Decomposition Materials: (under fire conditions) Aldehydes, Carbon Dioxide, Carbon Monoxide, Hydrocarbons

6. ACCIDENTAL RELEASE MEASURES

Cleanup and Disposal of Spill: Ventilate area of spill. Use non-reactive material to pick up spill. Dispose of in accordance with local, state and federal regulations. Do not let product enter drains.

Environmental and Regulatory Reporting: Not required

7. HANDLING AND STORAGE

Minimum/Maximum Storage Temperatures: Store in a cool, dry ventilated area between 39 to 100° F.

HANDLING: AVOID CONTACT WITH SKIN, EYES OR CLOTHING

8. EXPOSURE CONTROL/PERSONAL PROTECTION

General: These recommendations provide general guidance for handling of this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. When developing safe handling procedures, do not overlook the need to clean and dispose of the material. Waste resulting from the use of this product should be handled in accordance with Section 13: Disposal Considerations.

Exposure Guidelines: Exposure limits are recommended worker breathing limits. The following limits apply to this material:

<u>INGREDIENTS</u>	<u>LIMITS</u>	<u>INGREDIENTS</u>	<u>LIMITS</u>
Distillates	500 ppm OSHA TWA 8HR	Solvent naphtha	500 ppm OSHA TWA 8HR
White oil	5 mg/m ³ OSHA PEL 8HR	Polydimethylsiloxane	None established

Engineering Controls: Provide adequate room ventilation.

Respiratory Controls: For reasonable uses of this material, respiratory protection should not be necessary.

Eye/Face Protection: Safety glasses to protect from splashing.

Skin Protection: Wear Rubber or plastic gloves to avoid drying and irritation to the skin.

Work Practice Control: Normal hygiene in the work area should be taken when working with or handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear Liquid

pH: Not Established

Water Solubility: Slightly Soluble

Freezing Point Range: Not Established

Vapor Pressure: 0.500 mm HG @68°F/20°C

Flash Point: 142-151 ° F (61- 66°C) **Method:** Tag Closed

Flammability limits (vol/vol %): Lower: 0.6% Upper: 6.0%

Percent volatile by volume: Approx. 90 % **V.O.C. (calculated):** 6.0 lbs./ gal or 720 grams / l.

Color: Blue

Specific Gravity: 0.79 to 0.80

Melting Point Range: Pour Pint -13 -124°F

Boiling Point Range : 354-417 °F

Relative Vapor Density: (>) 1

Odor: Mild.

Odor Threshold: Not available

Evaporation Rate: 0.04 m-Butyl Acetate

Partition Coefficient; n-octanol / water: Not available

Decomposition Temperature: Not available

Auto Ignition Temperature: 455-599°F/235-315°C

Viscosity, kinematic 1.34 mm²/s@40°C

10. STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to be avoided: Keep away from heat and open flames

Materials/Chemicals to be avoided: Strong Acids, Alkalis, Oxidizing Agents

Hazardous Decomposition Products: Aldehydes, Oxides of Carbon Dioxide, Carbon Monoxides, Oxides of nitrogen, Hydrocarbons

Possibility of Hazardous Reactions: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Acute Eye Irritation: May be irritating to eyes.

Acute Skin Irritation: No test data found for product.

Acute Dermal Toxicity: LD50 rabbit, fixed dose procedure: Distillates >2,000 mg/kg, Solvent naphtha=2,000 mg/kg

Acute Respiratory Irritation: No test data found for product.

Acute Inhalation Toxicity: LC50: 4 hours exposure rat Distillates >5.28 mg/l, Solvent naphtha 4.3mg/l

Acute Oral Toxicity: LD50 (rat) > 5,000 mg/kg Distillates, LD50 (rat) = 2,000 mg/kg Solvent naphtha, medium aliph.

LD50 (rat) = 2840 mg /kg for polydiethylsiloxane, TD lo (rat) = 5,000 mg/kg for white oil

Chronic Toxicity: This product does not contain any substances that are considered by OSHA, NTP, IARC OR

ACGIH to be a probable or suspected human carcinogen. No additional test data was found for this product.

12. ECOLOGICAL INFORMATION; Ecotoxicological Information: No Data Found.

13. DISPOSAL CONSIDERATIONS

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

THIS PRODUCT SHOULD NOT BE DISPOSED OF IN A SANITARY SEWER SYSTEM.

14. TRANSPORTATION INFORMATION

This product is not regulated per 49 CFR 172.101.

Do not stack cartons more than five high.

15. REGULATORY INFORMATION

Inventory Issues: All components of this product are listed on the U.S. TSCA, Canadian DSL, European EINECS, South Korea ECL and Australian ACOIN chemical listings.

CERLA RQ - 40 CFR 302.4 (a): NONE LISTED

OSHA PROCESS SAFETY MANAGEMENT 29 CFR 1910: NONE LISTED

EPA HAZARD CATEGORIES; NONE

SARA 313 COMPONENTS 40 CFR 372.65: NONE LISTED

EPA Accidental Release Prevention 40 CFR 68 : NONE LISTED

SARA 311/312 Fire Hazard, Acute Health Hazard

16. OTHER INFORMATION

National Fire Protection Association

Hazard Rating, NFPA

Health

Flammability

Reactivity

Special

2

2

0

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SDS CHANGES

REV

I

J

DATE

6/24/2014

11/13/2014

DESCRIPTION OF CHANGE

SDS Format

Updated

Disclaimer: The information herein is given in good faith but no warranty expressed or implied is made. This Safety Ultrasonic Weapon Lubricating Solution Safety Data Sheet has been prepared by L&R Manufacturing Company.

SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

PRODUCT NAME: **M-Pro 7 Bore Gel**
FORMULA: Preparation/Mixture
PRODUCT USE: Firearm cleaner

MANUFACTURER'S NAME: Pantheon Enterprises, Inc.
ADDRESS: 225 West Deer Valley Road
Phoenix, AZ 85027 USA
safety@pantheonchemical.com

Safety Data Sheet Competent Person:

SUPPLIER'S NAME: Bushnell Outdoor Products
ADDRESS: 9200 Cody
Overland Park, KS 66214
TELEPHONE NUMBER: (913) 752-3400
FAX: (913) 752-6112

EMERGENCY TELEPHONE NUMBER: Chemtrec 24 hrs: 1-800-424-9300
Information: 623-780-2296
Fax: 623-516-0414

DATE PREPARED: May 15, 2015
DATE REVIEWED: September 28, 2015

Section 2: Hazards Identification

GHS Hazard Class: Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318

GHS Label elements, including precautionary statements:

Pictogram:



Signal word: **Danger**

Hazard statement(s):
H315 Causes skin irritation.
H318 Cause serious eye damage.

Precautionary statement(s):
P102 Keep out of reach of children
P103 Read label before use
P264 Wash skin thoroughly after handling.
P280 Wear eye protective.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard(s) Not Otherwise Classified (HNOC): Not classified
HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.
FIRE AND EXPLOSION: Not considered flammable or combustible.
POTENTIAL HEALTH EFFECTS: 32.65 % of mixture consists of ingredients of unknown acute toxicity.

OTHER: None
 CHRONIC EFFECTS OF OVEREXPOSURE: None
 APPEARANCE: Clear-hazy amber liquid

NFPA RATINGS:

COMPONENT	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
M-Pro 7 Bore Gel	1	0	0	NONE

Section 3: Composition / Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	CANADA DSL
Water	55-65	7732-18-5	Y
Diethylene Glycol Monobutyle Eather (DGBE)	<11	112-34-5	Y

Some items on this MSDS may be designated as trade secrets (TS). Bona fide requests for disclosure of trade secret information to medical personnel must be made in accordance with the provisions contained in 29 CFR 1910.1200 I 1-13.

Section 4: First Aid Measures

Description of First Aid Measures

INHALATION: No fumes are emitted when using this product. No adverse effects are anticipated from inhalation.

SKIN CONTACT: Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

INGESTION: If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation: No adverse effects are anticipated from inhalation.

Symptoms/Injuries After Skin Contact: May cause mild skin irritation. Wash thoroughly with soap and rinse with water.

Symptoms/Injuries After Eye Contact: Irritation may result from contact with the eye. Rinse immediately with water and seek medical advice.

Symptoms/Injuries After Ingestion: May be harmful if swallowed. Drink large amount of water. Do NOT induce vomiting. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media Material does not burn. Use extinguishing agent suitable for the type of surrounding fire.

Special hazards arising from the substance or mixture No data available.

Protective actions fire-fighters Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.

Further information None.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment.

Environmental precautions

None. Product is biodegradable.

Prevent further leakage or spillage if safe to do so.

Prevent spills or contaminated rinse water from entering storm drains, drywells, watercourses, or land areas.

Methods and materials for containment and cleaning up

Clean up as much as possible and place in a suitable container for later disposal.

Reference to other Sections

For personal protection reference section 8. For applicable regulations reference section 15.

Section 7: Handling and Storage

Precautions for safe handling

Do not store in temperatures below 32 F.

Wear proper protective equipment and avoid contact with skin, eyes, or clothing.

Wash hands after handling this product. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Follow all applicable local regulations for handling and storage.

Utilize chemical segregation from acids.

Specific uses

This product is used for firearm cleaning and conditioning.

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL	U.S. WEEL TWA	EU IOELV TWA (mg/m ³)	United Kingdom WEL	Canada OEL	Mexico OEL
DGBE	----	----	----	----	----	10 ppm; 10 mg/m ³ ; STEL15 ppm, 15 mins.	----	----

Exposure controls

VENTILATION:

No special precautions required.

RESPIRATORY PROTECTION:

No special precautions required.

PROTECTIVE GLOVES:

Rubber gloves

EYE PROTECTION:

Protective goggles

SKIN PROTECTION:

Suitable protective clothing to prevent skin contact

WORK/HYGIENE PRACTICES:

Avoid contact with skin and eyes. Wash hands after handling.

PROTECTIVE CLOTHING:

Wear suitable protective clothing to prevent skin contact.

OTHER EQUIPMENT:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

APPEARANCE – COLOR:	Clear-hazy amber
PHYSICAL STATE:	Liquid
ODOR:	None
ODOR THRESHOLD:	Data Not Applicable
pH:	9.8-10.2
FREEZING POINT:	21°F (-6 °C)
INITIAL BOILING POINT AND BOILING RANGE:	215°F (102°C)
FLASH POINT:	None
EVAPORATION RATE:	Data not available
FLAMMABILITY (Solid, gas):	Not applicable
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS:	Not applicable
VAPOR PRESSURE OF PRODUCT:	17.3 mmHg @20°C
DGBE:	0.02 mmHg @20°C
VAPOR DENSITY (AIR = 1):	Data not available
RELATIVE DENSITY (@25 °C):	1.0
SOLUBILITY (IES):	100% in water
OXIDIZING PROPERTIES:	Data not applicable
PARTITION COEFFICIENT: n-octanol/water:	Data not applicable
AUTO IGNITION TEMPERATURE:	Data not applicable
DECOMPOSITION TEMPERATURE:	Data not applicable
VISCOSITY:	Data not available
CORROSIVE:	No

Section 10: Stability and Reactivity

STABILITY:	Stable.
CONDITIONS TO AVOID:	None known
INCOMPATIBILITY (MATERIALS TO AVOID):	Strong acid solutions. This product will have an exothermic reaction with strong acid solutions.
HAZARDOUS DECOMPOSITION PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	Will not occur

Section 11: Toxicological Information

There is no toxicological information available for the product or mixture.

GHS Required Criteria	Toxicity Criteria	Data	Comments	Chemical Constituent
Acute Toxicity	LD50 Oral Rat LD50 Dermal Rat LD50 Oral Rat LC50 Vapor Rat 7hr	5,660 mg/kg 2,700 mg/kg 4,500 mg/kg No deaths occurred at 3.35mg/L		DGBE DGBE DGBE
Skin Corrosion/Irritation			Moderate	Product
Serious Eye Damage / Eye Irritation	Eye – Rabbit		Severe	DGBE
Skin Sensitization		Not available		
Respiratory Sensitization		Not available		
Germ Cell Mutagenicity		Not available		
Carcinogenicity		None listed None listed None listed	IARC NTP OSHA	
Reproductive Toxicity		Not available		
STOST -- Single Exposure		Not available		
STOST – Repeated Exposure		Not available		
Aspiration Hazard		Not available		
Genetic Toxicology		Not available		
Ames test		Not available		

STOST = Specific Target Organ Systemic Toxicity

OTHER INFORMATION: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12: Ecological Information

	Environmental Impacts	Chemical Constituents
Toxicity:	Acute LC50 1300000 ug/L Fresh water fish – Lepomis macrochirus – 33 to 75 minutes, 96 hours	DGBE
Bioaccumulative potential	Log Pow = 0.3	DGBE
Persistence and degradability:	Product is biodegradable	Product
Mobility in soil:	Not available	
PBT and vPvB assessment:	Not available	
Other adverse effects:	Not available	

Note: Not all of the ingredients have been tested for ecotoxicity.

Section 13: Disposal Considerations

Waste from residues/unused products

Completely rinse container prior to disposal. Dispose of in accordance with Federal, state, and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

Contaminated packaging

Contaminated packaging material should be disposed of as stated above for residues and unused product.

Rinsate

Do not dispose of rinse water containing product in a sanitary sewer system or stormwater drainage system.

Section 14: Transport Information

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

RAIL TRANSPORT: Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and/or orders of TSCA.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: Glycol Ethers

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: Cocamide DEA (CAS 68603-42-9) and Diethanolamine (CAS 111-42-2).

US FEDERAL

SARA 313 Components: The product contains Cocamide DEA (CAS 68603-42-9) and Diethanolamine (CAS 111-42-2) below the De Minimis Concentration = 1%.

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	None
Massachusetts's hazardous substance(s):	None
Pennsylvania hazardous substance code(s):	None
New Jersey	None

CLEAN AIR ACT AMENDMENTS (1990):

SECTION 112, HAZARDOUS AIR POLLUTANTS:

This substance is listed Hazardous Air Pollutant Glycol Ethers

SECTION 111, VOLATILE ORGANIC COMPOUNDS Glycol Ethers (66g/L)

CLEAN WATER ACT: None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

CANADA:

This SDS will be non-compliant 3 years after the issue date. This SDS contains all of the information required by the Controlled Products Regulations (CPR).

WHMIS-INFORMATION:

The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

DGBE: Canada Gazette, Part II, 122(2)(01 Jan 88)

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of June 16, 2014).

Section 16: Other Information

Revision Number:	6.0
Revision explanation	Document number updated, Revision number corrected
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Pantheon Enterprises, Inc.'s knowledge; however, Pantheon Enterprises, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY or FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Pantheon Enterprises, Inc. assumes no responsibility for the injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

Product Name: M-Pro7® Gun Cleaner
Formula: Preparation/Mixture
Product Use: Firearm cleaner

Manufacturer's Name: Pantheon Enterprises, Inc.
Address: 225 West Deer Valley Road
Phoenix, AZ 85027 USA
Safety Data Sheet Competent Person: safety@pantheonchemical.com

Supplier's Name: Pantheon Enterprises, Inc.
Address: 225 West Deer Valley Road
Phoenix, AZ 85027
Telephone Number: 623-780-2296
Toll Free: 1-888-608-7888
Fax: 623-516-0414

Emergency Telephone Number: Chemtrec 24 hrs: 1-800-424-9300

Date Prepared: April 2, 2015
Date Reviewed: May 3, 2016

Section 2: Hazards Identification

GHS Hazard Class: Skin irritation (Category 2), H315
Eye irritation (Category 2), H319

GHS Label elements, including precautionary statements:

Pictogram:



Signal word: Warning

Hazard Statement(s):
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary Statement(s):
P102 Keep out of reach of children
P103 Read label before use
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.

Hazard(s) Not Otherwise Classified (HNOC): Not classified
Hazard Classification: Not classified as hazardous based on IATA, IMDG, and DOT.
Fire and Explosion: Not considered flammable or combustible.
Potential Health Effects: <2 % of mixture consists of ingredients of unknown acute toxicity.

PDOC-30-293 Rev: 6.0

Pantheon Enterprises, Inc.
M-Pro7® Gun Cleaner
SDS Page 1 of 6

NFPA RATINGS:

COMPONENT	Health (Blue)	Flammability (Red)	Reactivity (Yellow)	Special (White)
M-Pro7® Gun Cleaner	1	0	0	NONE

Section 3: Composition / Information on Ingredients

PRODUCT COMPOSITION	APPROX %	CAS NO.	CANADA DSL
Water	75-85	7732-18-5	Y
Diethylene Glycol Monobutyl Ether (DGBE)	<14	112-34-5	Y

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation:	No fumes are emitted when using this product. No adverse effects are anticipated from inhalation.
Skin Contact:	Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.
Ingestion:	If swallowed do not induce vomiting, give large quantities of water to drink. Never give anything to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation:	No adverse effects are anticipated from inhalation.
Symptoms/Injuries After Skin Contact:	May cause mild skin irritation. Wash thoroughly with soap and rinse with water.
Symptoms/Injuries After Eye Contact:	Irritation may result from contact with the eye. Rinse immediately with water and seek medical advice.
Symptoms/Injuries After Ingestion:	May be harmful if swallowed. Drink large amount of water. Do NOT induce vomiting. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

In case of accident or if you feel unwell, seek medical advice immediately.

Section 5: Fire-fighting Measures

Suitable extinguishing media:	Material does not burn. Use extinguishing agent suitable for the type of surrounding fire.
Special hazards arising from mixture:	No data available.
Protective actions fire-fighters:	Wear standard protective equipment and self-contained breathing apparatus for firefighting if necessary.
Further information:	None.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Wear proper personal protective equipment.

Environmental precautions

Product is biodegradable. Prevent further leakage or spillage if safe to do so. Prevent spills or contaminated rinse water from entering storm drains, drywells, watercourses, or land areas.

Methods and materials for containment and cleaning up

Clean up as much as possible and place in a suitable container for later disposal.

Reference to other Sections

For personal protection reference section 8. For applicable regulations reference section 15.

Section 7: Handling and Storage

Precautions for safe handling

Wear proper protective equipment and avoid contact with skin, eyes, or clothing. Wash hands after handling this product. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

Follow all applicable local regulations for handling and storage. Do not store in temperatures below 32 F. Utilize chemical segregation from acids.

Specific uses

This product is used as a firearm cleaner.

Section 8: Exposure Controls/Personal Protection

Control Parameters

PRODUCT COMPOSITION	ACGIH TLV	OSHA PEL	NIOSH REL	U.S. WEEL TWA	EU IOELV TWA (mg/m ³)	United Kingdom WEL	Canada OEL	Mexico OEL
DGBE	-----	-----	-----	-----	-----	10 ppm; 10 mg/m ³ ; STEL15 ppm, 15 mins.	-----	-----

Exposure controls

Ventilation:

No special precautions required.

Respiratory Protection:

No special precautions.

Protective Gloves:

Wear chemical impervious gloves at all times while working with this product. **Eye**

Protection:

Recommend eye protection using safety glasses or goggles.

Skin Protection:

Suitable protective clothing to prevent skin contact

Work/Hygiene Practices:

Avoid contact with skin and eyes. Wash hands and face after handling.

Protective Clothing:

Wear suitable protective clothing to prevent skin contact.

Other Equipment:

Make safety shower, eyewash stations, and hand washing equipment available in the work area.

Section 9: Physical and Chemical Properties

Appearance/Color:

Clear Amber

Physical State:

Liquid

Odor:

None

Odor Threshold:

Not Available

pH:

10.8-11.2

Melting Point/Freezing Point:

21°F (-6°C) Freezing Point

Initial Boiling Point and Boiling Range:

215 °F (102 °C)

Flash Point:

Not Available

Evaporation Rate:

Slightly less than water

Flammability

Not Applicable for product

Vapor Pressure:

17.3 mmHg @ 20 °C

DGBE:

0.02 mmHg @ 20 °C

Vapor Density (AIR = 1):

Not Available

Relative Density (@25 °C):

0.96--1.04 (Water)

Solubility (ies)

100% in water

Oxidizing Properties

Not Available

Partition Coefficient: n-octanol/water:

Not Available

Autoignition Temperature:

Not Available

Decomposition Temperature:

Not Available

Viscosity:

Not Available

Corrosive:

No

Section 10: Stability and Reactivity

Stability:	Stable.
Conditions to avoid:	None
Incompatibility (Materials to avoid):	Strong acid solutions. This product will have an exothermic reaction with strong acid solutions.
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur

Section 11: Toxicological Information

There is no toxicological information available for the product or mixture.

GHS Required Criteria	Toxicity Criteria	Data	Comments	Chemical Constituent
Acute Toxicity	ATE _{mix} , Oral, Rat LD ₅₀ Oral, Rat LD ₅₀ Dermal, Rat LD ₅₀ Oral, Rat	>25,000 mg/kg 5,660 mg/kg 2,700 mg/kg 4,500 mg/kg		Product DGBE DGBE DGBE Product
Skin Corrosion/Irritation			Moderate	
Serious Eye Damage / Eye Irritation	Eye – Rabbit		Severe	DGBE
Skin Sensitization		Not available		
Respiratory Sensitization		Not available		
Germ Cell Mutagenicity		Not available		
Carcinogenicity		None listed None listed None listed	IARC NTP OSHA	
Reproductive Toxicity		Not available		
STOST -- Single Exposure		Not available		
STOST – Repeated Exposure		Not available		
Aspiration Hazard		Not available		
Genetic Toxicology		Not available		
Ames test		Not available		

ATE_{mix}= Acute Toxicity Estimate of Mixture

STOST = Specific Target Organ Systemic Toxicity

OTHER INFORMATION: Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.

Section 12: Ecological Information

	Environmental Impacts	Chemical Constituents
Toxicity:	Acute LC50 1300000 ug/L Fresh water fish – Lepomis macrochirus – 33 to 75 minutes, 96 hours	DGBE
Bioaccumulative potential	Log Pow = 0.3	DGBE
Persistence and degradability:	Product is biodegradable	Product
Mobility in soil:	Not available	
PBT and vPvB assessment:	Not available	
Other adverse effects:	Not available	

Note: Not all of the ingredients have been tested for ecotoxicity.

Section 13: Disposal Considerations

Waste from residues/unused products

Completely rinse container prior to disposal. Dispose of in accordance with Federal, state, and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

Contaminated packaging

Contaminated packaging material should be disposed of as stated above for residues and unused product.

Section 14: Transport Information

<u>DOT TRANSPORT:</u>		Not Regulated
<u>ADR = International Carriage of Dangerous Goods by Road</u>		Not Regulated
<u>RAIL TRANSPORT:</u>		Not Regulated
<u>SEA TRANSPORT:</u>	IMDG	Not Regulated
<u>AIR TRANSPORT:</u>	IATA/ICAO	Not Regulated

Section 15: Regulatory Information

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

This product is in compliance with rules, regulations, and/or orders of TSCA.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III SECTION 313 SUPPLIER NOTIFICATION:

This regulation requires submission of annual reports of toxic chemical(s) that appear in section 313 of the Emergency Planning and Community Right To Know Act of 1986 and 40 CFR 372. This information must be included in all SDS's that are copied and distributed for the material.

The Section 313 toxic chemicals contained in this product are: Glycol Ethers

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.

The California proposition 65 chemical(s) contained in this product are: None

STATE RIGHT-TO-KNOW TOXIC SUBSTANCE OR HAZARDOUS SUBSTANCE LIST:

Florida Toxic Substance(s):	None
Massachusetts's hazardous substance(s):	None
Pennsylvania hazardous substance code(s):	None
New Jersey	None

CLEAN AIR ACT AMENDMENTS (1990):

SECTION 112, HAZARDOUS AIR POLLUTANTS:

This substance is listed Hazardous Air Pollutant Glycol Ethers

SECTION 111, VOLATILE ORGANIC COMPOUNDS Glycol Ethers (66g/L)

CLEAN WATER ACT: None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

CANADA:

WHMIS: This SDS is in compliance with WHMIS 2015 (HPR/ new HPA)

JAPAN:

ENCS (Existing and New Chemical Substances): All components comply with ENCS inventory.

EUROPEAN UNION:

This product has been reviewed for compliance with the following European Community Directives: REACH 1907/2006; Regulation (EC) No 1272/2008 on classification, labeling, and packaging (CLP) of substances and mixtures. None of the chemicals used in this product are on the EU's REACH SVHC (Substances of Very High Concern) chemicals list (as of June 16, 2014).

Section 16: Other Information

Revision Number:	6.0
Revision explanation:	Physical data, toxicological data, and regulations information updated
Information Sources:	RTECS, ECHA, REACH, OSHA 29CFR 1910.1200, ENCS

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of Pantheon Enterprises, Inc.'s knowledge; however, Pantheon Enterprises, Inc. makes no warranty whatsoever, expressed or implied, of MERCHANTABILITY or FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from the use thereof. Pantheon Enterprises, Inc. assumes no responsibility for the injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

SAFETY DATA SHEET

This SDS complies with REACH 1907/2006 and 2001/58/EC, GHS REVISION 5, OSHA 29CFR 1910.1200

Section 1: Chemical Product and Company Identification

PRODUCT NAME: **M-Pro7® Gun Oil LPX**
FORMULA: Preparation/Mixture
PRODUCT USE: Firearm lubrication

MANUFACTURER'S NAME: Pantheon Enterprises, Inc.
ADDRESS: 225 West Deer Valley Road
Phoenix, AZ 85027 USA
Safety Data Sheet Competent Person: safety@pantheonchemical.com

SUPLIER'S NAME: Bushnell Outdoor Products
ADDRESS: 9200 Cody St.
Overland Park, KS 66214 USA
TELEPHONE: (913) 752-3400

EMERGENCY TELEPHONE NUMBER: Chemtrec 24 hrs: 1-800-424-9300
Information: 623-780-2296
Fax: 623-516-0414

DATE PREPARED: August 14, 2013
DATE REVIEWED: March 15, 2016

Section 2: Hazards Identification

GHS Hazard Class: Non hazardous

GHS Label elements, including precautionary statements:

Pictogram: None
Signal word: None
Hazard statement(s): None
Precautionary statement(s): None
Hazard(s) Not Otherwise Classified (HNOC): None known.

HAZARD CLASSIFICATION: Not classified as hazardous based on IATA, IMDG, and DOT.

Section 3: Composition / Information on Ingredients

This product does not contain ingredients which are hazardous to health or the environment within the meaning of the GHS and are present above their cut-off levels.

Section 4: First Aid Measures

Description of First Aid Measures

Inhalation: No problems are expected.
Skin Contact: Rinse contacted area with soap and water. Remove all exposed clothing and wash thoroughly before reuse. If skin irritation or rash occurs: Seek medical attention. In the event of any complaints or symptoms, avoid further exposure.
Eye Contact: Immediately flush with water for several minutes. If eye irritation persists: Seek medical attention.
Ingestion: Rinse 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so

by medical personnel. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries After Inhalation:	No adverse effects are anticipated from inhalation.
Symptoms/Injuries After Skin Contact:	May cause mild skin irritation. Wash thoroughly with soap and rinse with water.
Symptoms/Injuries After Eye Contact:	Irritation may result from contact with the eye. Rinse immediately with water and seek medical advice.
Symptoms/Injuries After Ingestion:	May be harmful if swallowed. Do NOT induce vomiting. Seek medical advice.

Indication of any immediate medical attention and special treatment needed

Notes to physician:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatment:	No specific treatment.
Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.

Section 5: Fire-fighting Measures

Suitable extinguishing media:	In case of fire, use water spray (fog), foam, dry chemicals, or CO ₂
Special hazards arising from the substance or mixture:	Combustion generates toxic fumes. This material can burn, but will not readily ignite. In enclosed spaces heated vapor can ignite with explosive force. Mist or spray may burn at temperature below flash point.
Hazardous thermal decomposition products:	Carbon dioxide, carbon monoxide, unburned hydrocarbons, and traces of sulfur, phosphorus, zinc, and/or nitrogen.
Protective actions fire-fighters:	Firefighter must use full bunker gear, including NIOSH approved positive pressure self-contained breathing apparatus.

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. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information for non-emergency personnel above.

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. Water polluting material may be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Clean up as much as possible and place in a suitable container for later disposal. Prevent spills or contaminated rinse water from entering storm drains, drywells, watercourses, or land areas.

Reference to other Sections

For personal protection reference section 8. For disposal reference section 13.

Section 7: Handling and Storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. 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. See also Section 8 for additional information on hygiene measures. Keep out of reach of children.

Conditions for safe storage, including any incompatibilities

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. Avoid excessive heat.

Specific uses

This product is used for firearm lubrication.

Section 8: Exposure Controls/Personal Protection

Control Parameters

Occupational exposure limits Not available.
Environment exposure controls: Do not let product enter drains.

Exposure controls

Ventilation Good general ventilation should be sufficient. No equipment is required at ambient temperature.
Protective gloves: Wear chemically resistant gloves to avoid skin exposure.
Eye 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: Suitable protective clothing to prevent skin contact.
Work/hygiene practice: 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.

Section 9: Physical and Chemical Properties

Appearance – Color: Tan/green
Physical State: Liquid
Odor: Mild petroleum odor
pH: Not available
Melting Point/Freezing Point: Not available
Initial Boiling Point and Boiling Range: Not available
Flash Point: Open Cup Method >219°C (>426.2°F) [Cleveland]
Evaporation Rate: Not available
Flammability (Solid, gas): Not available
Upper/Lower Flammability or Explosive Limits: Not available
Vapor Pressure: Not available
Vapor Density (Air = 1): Not available
Relative Density (@15.5 °C): ~0.85-0.9
Solubility Insoluble in water
Oxidizing Properties: Not available
Partition Coefficient: n-octanol/water: Not available
Auto Ignition Temperature: ~340°C (650°F)
Decomposition Temperature: 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: Stable under normal conditions.
Conditions to Avoid: Keep away from extreme heat, sparks or open flame and strong oxidizing conditions.

Incompatibility (Materials to avoid):
Hazardous Decomposition Products:

Oxidizing materials, acids, and alkalis.
 Carbon dioxide, carbon monoxide, unburned hydrocarbons, and traces of sulfur, phosphorus, zinc, and/or nitrogen.

Hazardous Reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Section 11: Toxicological Information

There is no toxicological information available for the product or mixture.

GHS Required Criteria	Toxicity Criteria	Data	Chemical Constituent
Acute Toxicity	LD ₅₀ Oral, Rat LD ₅₀ Dermal, Rabbit LC ₅₀ Inhalation, Rat	>5,000 mg/kg >5,000 mg/kg 5mg/l/4hr	Distillates, hydrotreated paraffinic Distillates, hydrotreated paraffinic Distillates, hydrotreated paraffinic

Information on the likely routes of exposure: Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eye contact: May cause an eye irritation.
 Inhalation: No known significant effects or critical hazards.
 Skin contact: May cause an allergic skin reaction.
 Ingestion: May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: No known significant effects or critical hazards.
 Inhalation: No known significant effects or critical hazards.
 Skin contact: Adverse symptoms may include the following: irritation, redness
 Ingestion: No known significant effects or critical hazards.

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

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.
 Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.
 Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
 Carcinogenicity: No known significant effects or critical hazards.
 Mutagenicity: No known significant effects or critical hazards.
 Teratogenicity: No known significant effects or critical hazards.
 Developmental effects: No known significant effects or critical hazards.
 Fertility effects: No known significant effects or critical hazards.

Section 12: Ecological Information

	Environmental Impacts	Chemical Constituents
Toxicity	Practically non toxic	Distillates, hydrotreated paraffinic
Bioaccumulative potential	No information is available.	
Mobility in soil	No information is available.	
Persistence and degradability:	No information is available.	
PBT and vPvB assessment:	No information is available.	
Other adverse effects:	No known significant effects or critical hazards.	

Note: Not all of the ingredients have been tested for ecotoxicity.

Section 13: Disposal Considerations

Waste from residues/unused products

Completely rinse container prior to disposal. Dispose of in accordance with Federal, state, and local regulations. Large quantities of waste may require adjustment to a neutral pH. None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

Contaminated packaging

Contaminated packaging material should be disposed of as stated above for residues and unused product.

Section 14: Transport Information

DOT TRANSPORT: Not Regulated

ADR = International Carriage of Dangerous Goods by Road Not Regulated

RAIL TRANSPORT: Not Regulated

SEA TRANSPORT: IMDG Not Regulated

AIR TRANSPORT: IATA/ICAO Not Regulated

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

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

All components are listed.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

SARA 302/304: None
SARA 313: None
SARA 311/312: None

CALIFORNIA PROPOSITION 65:

This regulation requires a warning for California Proposition 65 chemical(s) under the statute.
The California proposition 65 chemical(s) contained in this product are: None

CLEAN AIR ACT AMENDMENTS (1990):

SECTION 112, HAZARDOUS AIR POLLUTANTS:
This substance is listed Hazardous Air Pollutant None

CLEAN WATER ACT: None of the chemicals used in the product are listed as a Priority Pollutant in Appendix A to 40 CFR, Part 423—126 Priority Pollutants.

CANADA:

WHMIS-2015: This SDS is in compliance with WHMIS 2015 (HPR / new HPA).

EUROPEAN UNION:

Components listed on the European Community Inventory (EINECS/ELINCS): None.

Section 16: Other Information

Revision Number: 3.0
Revision explanation: GHS compliant
Information Sources: RTECS, ECHA, REACH, OSHA 29CFR 1910.1200

Key to abbreviations:

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

UN = United Nations

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Safety Data Sheet



Section 1: Identification

Product identifier

- Product Name** • NAPA Degreasing Compound
- Synonyms** • 591086
- Product Code** • 6101

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Read product label for use directions

Details of the supplier of the safety data sheet

- Manufacturer** • Gold Eagle Co.
4400 S. Kildare Avenue
Chicago, IL 60632-4372
United States
<http://www.goldeagle.com/>
- Telephone (General)** • 773-376-4400

Emergency telephone number

- Manufacturer** • 1-800-535-5053 - (INFOTRAC #22283)
- Manufacturer** • 01-352-323-3500 - INFOTRAC - International Shipments

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012** • Skin Irritation 2
Eye Irritation 2A

Label elements

OSHA HCS 2012



- Hazard statements** • Combustible liquid
Causes skin and eye irritation

Precautionary statements

- Prevention** • Keep out of reach of children.
Do not get in eyes, on skin, or on clothing.
Do not eat, drink or smoke when using this product.
Use personal protective equipment as required.
- Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN: Wash with plenty of soap and water.

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

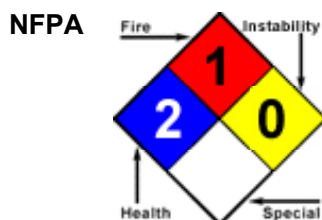
- Storage/Disposal** • Store in accordance with local, regional, national, and/or international regulations. Store in a well-ventilated place. Keep container tightly closed.
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

OSHA HCS 2012

- This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Other information



Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment)	CAS:64742-65-0	0% TO 95%	NDA	OSHA HCS 2012: Not Classified
Proprietary	Proprietary	0% TO 5%	NDA	OSHA HCS 2012:

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- Get medical attention immediately if symptoms occur. Not a likely source for inhalation. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Product is not a likely source to be inhaled, oil based product.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- 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.

- Ingestion**
- If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Most important symptoms and effects, both acute and delayed

- No data available

Indication of any immediate medical attention and special treatment needed

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO2, sand, earth, water spray or regular foam.

- Unsuitable Extinguishing Media**
- No data available.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Combustible material: may burn but does not ignite readily.

- Hazardous Combustion Products**
- No data available

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Avoid contact with skin, eyes, and clothing. Stay upwind. Use appropriate Personal Protective Equipment (PPE) Wear a self-contained breathing apparatus and appropriate Personal Protective Equipment (PPE) Do not walk through spilled material.

- Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering.

Environmental precautions

- No data available

Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
- No data available

Section 7 - Handling and Storage

Precautions for safe handling

- Handling**
- Use good safety and industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

- Storage**
- Keep only in the original container/package in a cool well-ventilated place.

- Incompatible Materials or Ignition Sources**
- Store below 150 F. Keep separate from strong oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Amber oily liquid with an additive odor.
Color	Amber	Odor	Additive
Odor Threshold	No data available		
General Properties			
Boiling Point	665 F(351.6667 C)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	No data available
Specific Gravity/Relative Density	= 0.875 Water=1	Water Solubility	Negligible < 0.1 %
Viscosity	55 Centistoke (cSt, cS) or mm ² /sec @ 40 C(104 F)		
Volatility			
Vapor Pressure	No data available	Vapor Density	> 1 Air=1
Evaporation Rate	No data available		
Flammability			
Flash Point	> 300 F(> 148.8889 C) TCC (Tagliabue Closed Cup)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Keep away from heat, sparks, and flame. Incompatible materials.

Incompatible materials

- No data available.

Hazardous decomposition products

- Carbon dioxide and carbon monoxide under incomplete combustion.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Mineral oil, petroleum distillates, solvent-dewaxed heavy paraffinic (mild or nosolvent-refining or hydrotreatment) (0% TO 95%)	64742-65-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rabbit LD50 • >5000 mg/kg; Tumorigen / Carcinogen: Skin-Mouse • 389 g/kg 78 Week(s)-Intermittent; <i>Tumorigenic: Equivocal tumorigenic agent by RTECS criteria; Skin and Appendages: Other: Tumors; Tumorigenic: Tumors at site of application</i>

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Data lacking
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2A
Acute toxicity	OSHA HCS 2012 • Data lacking
Aspiration Hazard	OSHA HCS 2012 • Data lacking
Carcinogenicity	OSHA HCS 2012 • Data lacking
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Data lacking
STOT-RE	OSHA HCS 2012 • Data lacking
STOT-SE	OSHA HCS 2012 • Data lacking
Toxicity for Reproduction	OSHA HCS 2012 • Data lacking
Germ Cell Mutagenicity	OSHA HCS 2012 • Data lacking

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • May cause mild irritation. Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Eye

- Acute (Immediate)** • May cause mild irritation. Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • May cause mild irritation. Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data available

Section 12 - Ecological Information

Toxicity

- Data lacking.

Persistence and degradability

- Non-mandatory section - information about this substance not complied for this reason.

Bioaccumulative potential

- Non-mandatory section - information about this substance not complied for this reason.

Mobility in Soil

- Non-mandatory section - information about this substance not complied for this reason.

Other adverse effects

- Non-mandatory section - information about this substance not complied for this reason.

Ecological Fate

- No data available.

Potential Environmental Effects

- No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • No data available

Section 16 - Other Information

Revision Date	<ul style="list-style-type: none">• 24/September/2015
Preparation Date	<ul style="list-style-type: none">• 24/September/2015
Other Information	<ul style="list-style-type: none">• Schedule B Number: 3811.21.0000.
Disclaimer/Statement of Liability	<ul style="list-style-type: none">• No data available

SAFETY DATA SHEET

1. Identification

Product identifier	OXPHO BLUE LIQUID, 4 OZ.	
Other means of identification		
Product code	082-024-004	
Recommended use	Not available.	
Recommended restrictions	Not available.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	BROWNELLS, INC.	
Address	200 South Front Street Montezuma, Iowa 50171 United States	
Telephone	(641) 623-5401	
Website	www.brownells.com	
E-mail	Not available.	
Emergency phone number	INFOTRAC	Registrant #79335
	24 hour Emergency Number,	Domestic: (800) 457-4280
	24 hour Emergency Number,	Foreign: +1(352) 323-3500

2. Hazard(s) identification

Physical hazards	Not available.	
Health hazards	Skin corrosion/irritation	Category 1
	Serious eye damage/eye irritation	Category 1
	Sensitization, respiratory	Category 1
	Sensitization, skin	Category 1
	Germ cell mutagenicity	Category 2
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1
	Specific target organ toxicity, repeated exposure	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
OSHA defined hazards	Not available.	
Label elements		



Signal word Danger

Hazard statement Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Causes damage to organs through prolonged or repeated exposure. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. May damage fertility or the unborn child. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary statement

Prevention

Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed or concerned: Get medical advice/attention. Immediately call a poison center/doctor. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage

Store in accordance with local/regional/national/international regulation. Store locked up.

Disposal

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

Hazard(s) not otherwise classified (HNOC)

Not available.

Hazard(s) not otherwise classified (HNOC)

Not available.

Supplemental information

5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
PHOSPHORIC ACID		7664-38-2	5 - < 10
COPPER (II) SULFATE PENTAHYDRATE (1:1:5)		7758-99-8	3 - < 5
NICKEL SULFATE		7786-81-4	1 - < 3
SELENOUS ACID		7783-00-8	1 - < 3
Other components below reportable levels			80 - < 90

#: This substance has workplace exposure limit(s).

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

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

Composition comments

The full text for all R-phrases is displayed in Section 16 of the SDS.

4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact

Take off immediately all contaminated clothing. Take off immediately all contaminated clothing. Immediately flush skin with plenty of water. Get medical attention if irritation develops or persists. Chemical burns must be treated by a physician. Call a physician or poison control center immediately. Call a physician or Poison Control Center immediately. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse. Wash clothing separately before reuse.

Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention if irritation develops or persists. Call a physician or Poison Control Center immediately.

Ingestion

Call a physician or poison control center immediately. Rinse mouth thoroughly. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Not applicable. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed. Provide general supportive measures and treat symptomatically.
General information	Immediate medical attention is required. In case of shortness of breath, give oxygen. If exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim under observation. Keep victim warm. Wash contaminated clothing before reuse. Show this safety data sheet (SDS) to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	May react with metals to release hydrogen gas, which can form explosive mixtures with air.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
Hazardous combustion products	Not available.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep people away from and upwind of spill/leak. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep upwind. Avoid breathing mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Should not be released into the environment. Stop the flow of material, if this is without risk. Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Prevent entry into waterways, sewer, basements or confined areas. Never return spills in original containers for re-use.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to drain/aquatic environment. Do not contaminate water.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get in eyes, on skin, or on clothing. Avoid contact with eyes, skin, and clothing. Use personal protective equipment as required. Do not use in areas without adequate ventilation. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wash thoroughly after handling. Wear appropriate personal protective equipment. Avoid release to the environment. Do not empty into drains. Handle and open container with care. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value
PHOSPHORIC ACID (CAS 7664-38-2)	PEL	1 mg/m3
SELENOUS ACID (CAS 7783-00-8)	PEL	0.2 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
NICKEL SULFATE (CAS 7786-81-4)	TWA	0.1 mg/m3	Inhalable fraction.
PHOSPHORIC ACID (CAS 7664-38-2)	STEL	3 mg/m3	
SELENOUS ACID (CAS 7783-00-8)	TWA	1 mg/m3	
	TWA	0.2 mg/m3	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
COPPER (II) SULFATE PENTAHYDRATE (1:1:5) (CAS 7758-99-8)	TWA	1 mg/m3	Dust and mist.
NICKEL SULFATE (CAS 7786-81-4)	TWA	0.015 mg/m3	
PHOSPHORIC ACID (CAS 7664-38-2)	STEL	3 mg/m3	
SELENOUS ACID (CAS 7783-00-8)	TWA	1 mg/m3	
	TWA	0.2 mg/m3	

Biological limit values

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

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection

Do not get in eyes. Wear safety glasses with side shields (or goggles) and a face shield. Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Use of an impervious apron is recommended. It may provide little or no thermal protection.

Respiratory protection

Do not breathe dust/fume/gas/mist/vapors/spray. Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Wash hands before breaks and immediately after handling the product. 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. Contaminated work clothing should not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Clear. Blue. Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear. Blue.
Odor	Odorless.
Odor threshold	Not available.
pH	1.5
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 213 °F (> 100.56 °C)
Flash point	Not available.
Evaporation rate	< 1
Flammability (solid, gas)	Not available.
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	0.00001 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	1.01

10. Stability and reactivity

Reactivity	Reacts violently with strong alkaline substances. This product may react with reducing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Do not mix with other chemicals. Contact with incompatible materials. Excessive heat.
Incompatible materials	Bases. Reducing agents. Cyanides, water-reactive substances, strong reducing agents, chlorinated cleaners or sanitizers, combustible organic materials, most metals.

Hazardous decomposition products

Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, phosphoric and copper oxides.

11. Toxicological information**Information on likely routes of exposure****Inhalation**

May cause damage to organs through prolonged or repeated exposure by inhalation. May cause irritation to the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.

Skin contact

Causes severe skin burns. May cause an allergic skin reaction.

Eye contact

Causes serious eye damage.

Ingestion

Causes digestive tract burns.

Symptoms related to the physical, chemical and toxicological characteristics

Burning pain and severe corrosive skin damage. Causes serious eye damage. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Difficulty in breathing. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects**Acute toxicity**

Causes burns. May cause an allergic skin reaction.

Product**Species****Test Results**

OXPHO BLUE LIQUID, 4 OZ.

Acute*Dermal*

LD50

Rabbit

54800 mg/kg

Oral

LD100

Mouse

1666.6666 mg/kg estimated

LD50

Rat

15642 mg/kg

Components**Species****Test Results**

COPPER (II) SULFATE PENTAHYDRATE (1:1:5) (CAS 7758-99-8)

Acute*Oral*

LD100

Mouse

50 mg/kg

LD50

Rat

960 mg/kg

Other

LD50

Rabbit

> 8 g/kg

PHOSPHORIC ACID (CAS 7664-38-2)

Acute*Dermal*

LD50

Rabbit

2740 mg/kg

Oral

LD50

Rat

1530 mg/kg

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

Skin corrosion/irritation

Hazardous by OSHA criteria. Causes severe skin burns and eye damage. Corrosive effects.

Serious eye damage/eye irritation

Causes severe eye burns. Causes serious eye damage.

Respiratory or skin sensitization**Respiratory sensitization**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects. No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

Hazardous by OSHA criteria. Cancer hazard. Hazardous by WHMIS criteria. May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

NICKEL SULFATE (CAS 7786-81-4)

1 Carcinogenic to humans.

SELENOUS ACID (CAS 7783-00-8)

3 Not classifiable as to carcinogenicity to humans.

Material name: OXPHO BLUE LIQUID, 4 OZ.

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US. National Toxicology Program (NTP) Report on Carcinogens

NICKEL SULFATE (CAS 7786-81-4)

Known To Be Human Carcinogen.

Reproductive toxicity	May damage fertility or the unborn child. Contains no ingredient listed as toxic to reproduction
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.
Chronic effects	Hazardous by OSHA criteria. Hazardous by WHMIS criteria. Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects. Components of this product are hazardous to aquatic life. Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

Product	Species	Test Results	
OXPHO BLUE LIQUID, 4 OZ.			
Aquatic			
Crustacea	EC50	Daphnia	4488 mg/l, 48 hours
Fish	LC50	Fish	16.91 mg/l, 96 hours

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

Persistence and degradability	Not established.
Bioaccumulative potential	Not established.
Mobility in soil	No data available.
Other adverse effects	Not established.

13. Disposal considerations

Disposal instructions	Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Not applicable.
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. Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT

UN number	UN3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Selenious and Phosphoric Acids, Nickel Sulfate)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	UN3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Selenious and Phosphoric Acids, Nickel Sulfate)

Transport hazard class(es)

Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Forbidden.
Cargo aircraft only	Forbidden.

IMDG

UN number	UN3264
UN proper shipping name	Corrosive Liquid, Acidic, Inorganic, N.O.S. (Selenious and Phosphoric Acids, Nickel Sulfate)
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

DOT**IATA; IMDG**

General information DOT Regulated Marine Pollutant.

15. Regulatory information**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.
 This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

NICKEL SULFATE (CAS 7786-81-4) Listed.
 PHOSPHORIC ACID (CAS 7664-38-2) Listed.
 SELENOUS ACID (CAS 7783-00-8) Listed.

SARA 304 Emergency release notification

SELENOUS ACID (CAS 7783-00-8) 10 LBS

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
SELENOUS ACID	7783-00-8	10		1000 lbs	10000 lbs

SARA 311/312 No

Hazardous chemical**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
COPPER (II) SULFATE PENTAHYDRATE (1:1:5)	7758-99-8	3 - < 5
NICKEL SULFATE	7786-81-4	1 - < 3
SELENOUS ACID	7783-00-8	1 - < 3

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

NICKEL SULFATE (CAS 7786-81-4)
 SELENOUS ACID (CAS 7783-00-8)

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

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Not listed.

US. Massachusetts RTK - Substance List

COPPER (II) SULFATE PENTAHYDRATE (1:1:5) (CAS 7758-99-8)
 NICKEL SULFATE (CAS 7786-81-4)
 PHOSPHORIC ACID (CAS 7664-38-2)
 SELENOUS ACID (CAS 7783-00-8)

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

COPPER (II) SULFATE PENTAHYDRATE (1:1:5) (CAS 7758-99-8)
 NICKEL SULFATE (CAS 7786-81-4)
 PHOSPHORIC ACID (CAS 7664-38-2)
 SELENOUS ACID (CAS 7783-00-8)

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

COPPER (II) SULFATE PENTAHYDRATE (1:1:5) (CAS 7758-99-8)
 NICKEL SULFATE (CAS 7786-81-4)
 PHOSPHORIC ACID (CAS 7664-38-2)
 SELENOUS ACID (CAS 7783-00-8)

US. Rhode Island RTK

NICKEL SULFATE (CAS 7786-81-4)
 PHOSPHORIC ACID (CAS 7664-38-2)
 SELENOUS ACID (CAS 7783-00-8)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

NICKEL SULFATE (CAS 7786-81-4)

Listed: May 7, 2004

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

*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 03-07-2014

Revision date 12-10-2014

Version # 02

References

ACGIH
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
EPA: AQUIRE database
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity
National Toxicology Program (NTP) Report on Carcinogens
NLM: Hazardous Substances Data Base
US. IARC Monographs on Occupational Exposures to Chemical Agents
Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive Order No. 19203)
Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)
Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29)
Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 30)
Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended)
Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)
Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor (MOL) Public Notice No. 1986-45, as amended)
Korea. Prohibited Chemical Substances (TCCL Article 11)
Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)
Korea. Restricted Chemical Substances (TCCL Article 11)
Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)
Korea. Toxic Chemical Control Law (TCCL), pre-1997 List
Korea. Toxic Chemicals (TCCL Article 10)
Korea. Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)
Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits
JIS Z 7250: 2005 Safety data sheet for chemical products-Part 1:Content and order of sections
JCIA GHS Guideline, October 2008

Disclaimer

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

Revision Information

This document has undergone significant changes and should be reviewed in its entirety.

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: REMOIL – 10 oz

Product Code:2923215

RAMAC: #24027

MANUFACTURER'S NAME: Remington Outdoor Company

ADDRESS: 870 Remington Drive
Madison, NC 27025-0700

EMERGENCY PHONE : 708-598-7100

INFORMATION PHONE : 800-243-9700

Product Use: Firearm lubricant

2. HAZARDS IDENTIFICATION

CLASSIFICATION

Flammable aerosol	1
Gas under pressure	Liquefied gas
Skin Corrosion/Irritation	3
Eye Damage/Irritation	2B
Sensitization - Respiratory	1B



SIGNAL WORD: Danger

Hazard Statements

Extremely flammable aerosol
Contains gas under pressure; may explode if heated
Causes mild skin irritation
Causes eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary Statements

Keep away from heat/sparks/open flames/hot surfaces – No smoking
Do not spray on an open flame or other ignition source
Pressurized container – Do not pierce or burn, even after use
Wash hands thoroughly after handling
IF IN EYES: Rinse continuously 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 eye irritation persists: Get medical advice/attention
Protect from sunlight. Store in a well ventilated place
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Percent
---------------	---------	---------

PETROLEUM DISTILLATE	8052-41-3	58.30
PROPANE	74-98-6	20.00

4. FIRST AID MEASURES

INHALATION: Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped . Get medical attention.

EYE CONTACT: Wash immediately with large volumes of fresh water for at least 15 minutes . Get medical attention.

SKIN CONTACT: Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

INGESTION: Not a likely route of exposure.

Most important symptoms/effects, acute and delayed: Repeated exposure may cause skin dryness or cracking. May cause drowsiness or dizziness.

Indication of immediate medical attention and special treatment needed: None known.

5. FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media: Foam, Alcohol foam, CO2, Dry chemical, Water fog. Water spray may be ineffective.

Specific hazards arising from the chemical: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes.

Special equipment and precautions for fire-fighters: Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. Wear goggles and use self-contained breathing apparatus . If water is used, fog nozzles are preferred.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures: Avoid breathing vapors. Ventilate area. Remove all sources of ignition.

Methods and materials for containment and cleaning up: Clean up with absorbent material and place in closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally. See product label for additional information.

Conditions for safe storage, including any incompatibilities: Store and use in cool, dry, well-ventilated areas. Do not store above 120 F.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
PETROLEUM DISTILLATE 8052-41-3	Not established	TLV-TWA: 400 ppm	

PROPANE 74-98-6	Not established	TWA: 1000 ppm	
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Appropriate engineering controls: Ventilation should be sufficient to prevent inhalation of any vapors . General dilution and/or local exhaust ventilation in volume to keep PEL/TLV of most hazardous ingredient below acceptable limit and lel below stated limit.

Individual protection measures:

Respiratory protection: None under normal use. Avoid breathing vapors. In restricted areas , use approved chemical/mechanical filters designed to remove a combination or particles and vapor. In confined areas, use an approved air line respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Protective gloves: None under normal use. Use solvent-resistant for prolonged or repeated contact.

Eye protection: None under normal use. However, use of safety glasses with splash guards or full face shield should be used if indicated.

Other protective clothing or equipment: None under normal use. However, use of solvent- resistant aprons or other clothing is recommended. Eye washes and safety showers in the workplace are recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

<p>Appearance: Aerosol product</p> <p>Vapor Pressure: Not determined</p> <p>Vapor Density: Heavier than air</p> <p>Density: 0.722785677</p> <p>Freezing point: Not determined</p> <p>Boiling point: N/A</p> <p>Evaporation rate: Slower than ether</p> <p>Explosive Limits: Not applicable</p> <p>Autoignition temperature: Not determined</p> <p>Viscosity: Not determined</p>	<p>Odor: Solvent</p> <p>Odor threshold: Not determined</p> <p>pH: Not applicable</p> <p>Melting point: Not determined</p> <p>Solubility: Not determined</p> <p>Flash point: Not determined</p> <p>Flammability: Level 3 Aerosol</p> <p>Partition coefficient (n-octanol/water): Not determined</p> <p>Decomposition temperature: Not determined</p>
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10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use.

Chemical stability: Stable under normal storage and handling conditions.

Possibility of hazardous reactions: None known.

Incompatible materials:

No data

Hazardous decomposition products:

No data

11. TOXICOLOGICAL INFORMATION

Long-term toxicological studies have not been conducted for this product.

12. ECOLOGICAL INFORMATION

Long-term ecological studies have not been conducted for this product.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations. Before attempting clean up, refer to other sections of this document for hazard cautionary information.

14. TRANSPORT INFORMATION

By land: DOT Proper Shipping Name: None required per 49 CFR 173.306(i) for products that conform to the Limited Quantity provisions. Commodity shipping description: Lubricant, NOI

By water: DOT & IMDG Proper Shipping Name: UN1950, Aerosols, 2.1, LTD QTY

By air: DOT & IATA Proper Shipping Name: UN1950, Aerosols, flammable, 2.1, LTD QTY (packing instruction Y203 applies)

15. REGULATORY INFORMATION

All ingredients are either listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

Date revised: 2015-05-22

Revision 0

Date Printed: 2015-05-22

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. BECAUSE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY FOR ITS USE.

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

**Product Name: Type TR™
Cleaner/Degreaser – Aerosol**

Product ID numbers: TR-16

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Electrical Cleaner/Degreaser

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@ polywater.com

1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008.

Flam Aerosol 2	H223, H229
Gas under pressure, liquefied gas	H280
Skin Irrit. 2	H315
Eye Irrit 2A	H319
Rep. Tox. 1B	H360
STOT SE 2	H371
STOT SE 3 (Respiratory system, Central Nervous System)	H335, H336
Chronic Aquatic Tox 3	H412

2.2 Label elements

This product is intended for consumer use and is labeled according to CPSC guidelines and not to GHS guidelines listed below. It is safe for consumers and other users under normal and reasonably foreseeable use. The SDS contains valuable information for industrial workplace conditions.

Contains: 1-Bromopropane



Pictograms:

Signal word: Danger

Hazard Statements:

H223	Flammable aerosol
H229	Pressurized container, may burst if heated
H280	Contains gas under pressure; may explode if heated

H315	Causes skin irritation.
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child.
H371	May cause damage to organs.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effect.

Precautionary Statements:

P210	Keep away from sparks, flames and hot surfaces. No smoking.
P242	Use only non-sparking tools.
P251	Do not pierce or burn, even after use.
P260	Do not breathe vapor.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P303 + P361 + P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
P332 + P313	If skin irritation occurs: Get medical attention.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 attention
P308 + P313	If exposed or concerned: Get medical advice.
P370 + P378	In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P403 + P235	Store in a well-ventilated place. Keep cool.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local and national regulations.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt. %</u>	<u>GHS/CLP Classification</u>
1-bromopropane	106-94-5	203-445-0	95-100%	Flam Liq 2; H225; Skin and Eye Irrit 2; H315, H319; Rep Tox 1B; H360; STOT SE 2, 3; H335, H336, H371; Chronic Aquatic Tox 3; H412
Stabilizers	proprietary		<5%	
1,2 epoxy butane	106-88-7		<1%	Flam Liq 2; H225; Acute Tox 4; H302, H312, H332 Skin and Eye Irrit 2; H315, H319; STOT SE 3; H335; Carc. 2; H351 Chronic Aquatic Tox 3; H412

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

- Skin Contact:** Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
- Ingestion (Swallowing):** Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

No data available

5. Firefighting Measures

5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Vapors are heavier than air and may travel considerable distances.

Hazardous decomposition and by-products:

Include hydrogen bromide, bromine, oxides of carbon

5.3 Advice for firefighters

Wear appropriate, protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers. Aerosol cans can build up pressure and explode when exposed to temperatures greater than 120°F (49°C).

Special Note:

Many data bases (OSHA, DOT, EPA, ESIS) list 1-bromopropane as highly flammable. Flash point testing has produced variable results, including no flashpoint to boiling.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. For a spill in a confined space, provide mechanical ventilation to disperse or exhaust vapors. For emergency responders: use respiratory protection: half-face or full-face respirator with filter(s) for organic vapor for spills in a confined space. Chemical goggles are recommended if splashes or contact with eyes is possible. For small spills: normal antistatic work clothes are usually adequate.

6.2 Environmental precautions:

Avoid release to the environment. Dike the spill to prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods materials for containment and cleaning up:

Absorb spill with sand or absorbents. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Remember, adding an absorbent material does not change the toxicity or flammability hazard.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or 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. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. For

industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Do not expose container to direct sunlight or temperatures above 120°F (49°C). Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Component Name	Limit	Standard	Source/Note
1-bromopropane	Not determined		

8.2 Exposure controls

Respiratory protection:

Provide ventilation or other engineering controls to keep vapor accumulation below acceptable limits. Avoid use in a closed environment without respiratory protection. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH approved) or use supplied air equipment.

Protective gloves:

The use of impermeable gloves is recommended to prevent drying and possible irritation. Use of chemically resistant gloves such as Nitrile for short-term exposure, or Viton or Silvershield for extended exposures is suggested.

Splash contact:

Material: Fluorinated rubber

Minimum layer thickness: 0.7 mm

Breakthrough time: 467 min

Material test: Vitoject® (viton)

Eye protection:

Eye protection is recommended, especially if the material is used in ways where it could spray or splash in the eyes.

Other protective equipment:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties (bulk solvent unless noted)

Appearance:	Aerosol can with fast evaporating solvent.
Odor threshold:	Very low
pH:	Does not apply
Freezing point:	Not available
Boiling point:	160°F / 71°C
Flash point:	Not available (See Section 5)
Evaporation rate:	>2 (n-butyl acetate = 1)
Flammability (solid, gas):	Not applicable to liquids Approximately 3.5 - 9% in air.
Flammability limits:	LEL: 4.6%
Vapor pressure:	>140 mm Hg @ 20°C
Vapor density (Air = 1):	4.3
Specific gravity (H₂O = 1):	1.33
Solubility in water:	2.5 grams per liter

Coefficient of Water/Oil**Distribution:** Not available**Auto-ignition temperature:** Approximately 3-8% in air.**Decomposition temperature:** Not available**Viscosity:** Not available**9.2 Other Information****Volatiles (Weight %):** 100%**VOC Content:** 1330 g/l**10. Stability and Reactivity****10.1 Reactivity:**

See remaining headings in Section 10.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Avoid heat, flame or other hot surfaces that could cause thermal decomposition.

10.5 Incompatible materials :

Strong alkalis, oxidizers and reactive metals (i.e. potassium, sodium, etc.).

10.6 Hazardous decomposition products:

Thermal decomposition products include hydrogen bromide, bromine and oxides of carbon as well as oxides of nitrogen.

11. Toxicological Information**11.1 Information on toxicological effects:****Acute toxicity****Eye contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

Skin contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

Concentrated solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Ingestion:

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Toxicity to Animals:

1-Bromopropane	LD ₅₀ (oral rat)	4,260 mg/kg
	LC ₅₀ (inhl rat)	253,000 mg/m ³ , 30 min
1,2 epoxy butane	LD ₅₀ (oral rat)	1,600 mg/kg
	LC ₅₀ (inhl rat)	8,800 mg/m ³ , 30 min

Aspiration hazard

No data available. This route of exposure is not expected with aerosol package.

Chronic Exposure:

Reproductive Toxicity: May cause congenital malformation in the fetus. May damage the unborn child. Presumed human reproductive toxicant.

May cause reproductive disorders. May damage fertility.

Mutagenicity: No data available

Teratogenicity: No data available

Specific Target Organ Toxicity (STOT)

Single exposure: May cause damage to organs.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Repeated exposure: No data available.

Toxicologically Synergistic Products: Not available.

Carcinogenic Status: This substance contains less than 1% 1,2 epoxy butane listed as IARC 2B, "Possibly carcinogenic to humans".

12. Ecological Information

12.1 Toxicity:

Ecotoxicity:

Large volumes may penetrate soil and contaminate groundwater.

Aquatic Toxicity:

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

1-Bromopropane

96 h LC₅₀ Fathead Minnow (fish) 67.3 mg/l

48 h EC₅₀ Daphnia magna (water flea) 208.9 mg/l

12.2 Persistence and degradability:

Not readily biodegradable, result: 19.20%

12.3 Bioaccumulation potential:

No information available

12.4 Mobility in soil:

No information available

12.5 Results of PBT and vPvB Assessment:

This product is not, nor does it contain a substance that is a PBT or vPvB.

12.6 Other adverse effects:

None known.

13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

14. Transport Information

UN Number: 1950

UN Proper shipping name: AEROSOLS, Flammable, less than 1 liter each, Class 2.1, LTD QTY

Transport hazard class(es): Class 9

Packing group: Not Applicable

Environmental hazards: None known

Special precautions: None known

TDG: Not Regulated

ICAO/IATA-DGR: Consumer Commodity, ID 8000, Class 9, LTD QTY
UN 1950, AEROSOLS, Flammable, less than 1 liter each, Class 2.1, LTD QTY

IMDG: QTY

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

USA Federal and State

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	<u>Acute</u> Yes	<u>Chronic</u> Yes	<u>Fire</u> Yes	<u>Pressure</u> No	<u>Reactive</u> No
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Components	CERCLA/SARA Sec 302 Hazardous Substance RQ	EHS TPQ	SARA Sec. 313 Toxic Release
1,2 epoxy butane (CAS# 106-88-7)	100 lbs	No	1%

Type TR™ Cleaner/Degreaser Aerosol contains less than 1% 1,2 epoxy butane as a stabilizer. Any release of 100 lbs or greater must be reported.

NFPA Ratings:

Health:	2
Fire:	2
Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

European Union

All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006.

This material is on the Substances of Very High Concern (SVHC) list.

Canada

All components are listed on the DSL inventory. This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Classification: B2, D2A

Australia

All components are listed on the AICS. Hazardous according to criteria of NOHSC Australia.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier

16. Other Information

Abbreviations and acronyms:

- OSHA = Occupational Safety and Health Administration
- CLP = Classification, Labeling and Packaging Regulation
- STOT = Specific Target Organ Toxicity
- LD₅₀ = Median Lethal Dose
- DNEL = Derived No Effect Level
- ACGIH = American Conference of Governmental Industrial Hygienists
- TSCA = Toxic Substances Control Act (USA)
- DSL = Domestic Substances List (Canada)
- AICS = Australian Inventory of Chemical Substances

Hazard Statements:

H223 Flammable aerosol

H229	Pressurized container, may burst if heated
H315	Causes skin irritation.
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child.
H371	May cause damage to organs.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effect.

Revision Date: July 22, 2015

Revision Number: 4

Supersedes: May 20, 2015

Other: Not Applicable

Indication of Changes: Updated Section 2 label elements (gas under pressure) and Section 8.1 control parameters.

Written in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product ID: 059.TY25677
Product Name: WHITE REPAIR ENAMEL
Product Use: Paint or Coatings Related Product
Print date: 25/Aug/2014
Revision Date: 25/Aug/2014

Company Identification

The Valspar Corporation
PO Box 1461
Minneapolis, MN 55440

Manufacturer's Phone: 1-612-851-7000

24-Hour Medical Emergency Phone: 1-888-345-5732

2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:

Inhalation
Ingestion
Skin absorption

Eye Contact:

- Moderate eye irritation
- Risk of serious damage to eyes.

Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis
- Can be absorbed through skin.

Ingestion:

- Irritation of the mouth, throat, and stomach.

- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.
- May cause bronchopneumonia or bronchitis.

Target Organ and Other Health Effects:

- Causes headache, drowsiness or other effects to the central nervous system.
- Kidney injury may occur.
- Liver injury may occur.
- Blood disorders

This product contains ingredients that may contribute to the following potential chronic health effects:

- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
- Prolonged exposure over TLV may produce pneumoconiosis.

Teratogens:

- May cause birth defects.
- Female reproductive toxin.

Carcinogens:

- Possible cancer hazard. Contains material which may cause cancer based on animal data.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
TITANIUM DIOXIDE 13463-67-7	20 - 25	Titanium dioxide
NAPHTHA 64742-88-7	15 - 20	SOLVENT NAPHTHA, PETROLEUM, MEDIUM ALIPH
BUTYL ACETATE 123-86-4	5 - 10	n-Butyl acetate
XYLENE 1330-20-7	1 - 5	Xylenes (o-, m-, p- isomers)
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	Petroleum naphtha, light aromatic
PROPRIETARY RESIN	1 - 5	PROPRIETARY RESIN
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	Ethyl 3-ethoxypropionate
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	1,2,4-Trimethylbenzene
TOLUENE 108-88-3	1 - 5	Toluene
PROPRIETARY INERT	1 - 5	PROPRIETARY INERT
MINERAL SPIRITS 64742-47-8	1 - 5	Petroleum distillates, hydrotreated light

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene
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If this section is blank there are no hazardous components per OSHA guidelines.

4. FIRST AID MEASURES

Eye Contact:

Remove any contact lenses and open eyes wide apart. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

Skin Contact:

Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

Ingestion:

Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

Inhalation:

Move injured person into fresh air and keep person calm under observation. Get medical attention immediately. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration.

Medical conditions aggravated by exposure:

Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	80
Flash point (Celsius):	27
Lower explosive limit (%):	1
Upper explosive limit (%):	8
Autoignition temperature:	not determined
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:

Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Oxidizing Material

Extinguishing media:

Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:

Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:

Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:

Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:

Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

Skin protection:

Appropriate chemical resistant gloves should be worn.

Other Personal Protection Data:

To prevent skin contact wear protective clothing covering all exposed areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection:

If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation

Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
TITANIUM DIOXIDE 13463-67-7	20 - 25	15 mg/m ³ TWA dust total		
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA 710 mg/m ³ TWA		
XYLENE 1330-20-7	1 - 5	100 ppm TWA 435 mg/m ³ TWA		
TOLUENE 108-88-3	1 - 5	200 ppm TWA	= 300 ppm Ceiling	

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
PROPRIETARY INERT	1 - 5	5 mg/m ³ Respirable fraction. 15 mg/m ³ Total dust. Respirable fraction. Listed. Total dust. Listed.		
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm TWA 435 mg/m ³ TWA		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
TITANIUM DIOXIDE 13463-67-7	20 - 25	10 mg/m ³ TWA			
BUTYL ACETATE 123-86-4	5 - 10	150 ppm TWA	200 ppm STEL		
XYLENE 1330-20-7	1 - 5	100 ppm TWA	150 ppm STEL		
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	25 PPM			
TOLUENE 108-88-3	1 - 5	20 ppm TWA			Can be absorbed through the skin.
PROPRIETARY INERT	1 - 5	10 mg/m ³			
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm TWA	125 ppm STEL		

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	liquid
pH:	not determined
Vapor pressure:	22.556391 mmHg @ 68°F (20°C)
Vapor density (air = 1.0):	5.5
Boiling point:	230.72°F (110°C)
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	9.46
Specific Gravity:	1.13
Evaporation rate (butyl acetate = 1.0):	2.24
Flash point (Fahrenheit):	80
Flash point (Celsius):	27
Lower explosive limit (%):	1
Upper explosive limit (%):	8
Autoignition temperature:	not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.

10. STABILITY AND REACTIVITY

Hazardous Decomposition Products:

Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge:

Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	Approx. Weight %	NIOSH - Selected LD50s and LC50s
TITANIUM DIOXIDE 13463-67-7	20 - 25	> 10000 mg/kg Oral LD50 Rat
NAPHTHA 64742-88-7	15 - 20	= 3000 mg/kg Dermal LD50 Rabbit > 5.28 mg/L Inhalation LC50 Rat 4 h > 5000 mg/kg Oral LD50 Rat
BUTYL ACETATE 123-86-4	5 - 10	= 10768 mg/kg Oral LD50 Rat = 390 ppm Inhalation LC50 Rat 4 h > 17600 mg/kg Dermal LD50 Rabbit
XYLENE 1330-20-7	1 - 5	= 4300 mg/kg Oral LD50 Rat = 47635 mg/L Inhalation LC50 Rat 4 h = 5000 ppm Inhalation LC50 Rat 4 h > 1700 mg/kg Dermal LD50 Rabbit
AROMATIC NAPHTHA, LIGHT 64742-95-6	1 - 5	= 3400 ppm Inhalation LC50 Rat 4 h = 8400 mg/kg Oral LD50 Rat > 2000 mg/kg Dermal LD50 Rabbit > 5.2 mg/L Inhalation LC50 Rat 4 h
ETHYL 3- ETHOXYPROPIONATE 763-69-9	1 - 5	= 10 mL/kg Dermal LD50 Rabbit = 3200 mg/kg Oral LD50 Rat
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5	= 18 g/m ³ Inhalation LC50 Rat 4 h = 3400 mg/kg Oral LD50 Rat > 3160 mg/kg Dermal LD50 Rabbit
TOLUENE 108-88-3	1 - 5	= 12.5 mg/L Inhalation LC50 Rat 4 h = 12124 mg/kg Dermal LD50 Rat = 636 mg/kg Oral LD50 Rat = 8390 mg/kg Dermal LD50 Rabbit > 26700 ppm Inhalation LC50 Rat 1 h
PROPRIETARY INERT	1 - 5	> 2.2 mg/L Inhalation LC50 Rat 1 h > 2000 mg/kg Dermal LD50 Rabbit > 5000 mg/kg Oral LD50 Rat
MINERAL SPIRITS 64742-47-8	1 - 5	> 2000 mg/kg Dermal LD50 Rabbit > 5.2 mg/L Inhalation LC50 Rat 4 h > 5000 mg/kg Oral LD50 Rat
ETHYLBENZENE 100-41-4	.1 - 1	= 15354 mg/kg Dermal LD50 Rabbit = 17.2 mg/L Inhalation LC50 Rat 4 h = 3500 mg/kg Oral LD50 Rat

Mutagens/Teratogens/Carcinogens:

May cause birth defects. Female reproductive toxin.

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Developmental Toxicity	California Prop 65 - Reproductive (Male)
TOLUENE 108-88-3	1 - 5	Listed. initial date 1/1/91 - developmental toxicity	

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
TOLUENE 108-88-3	1 - 5	Listed. Initial date 8/1/09 - female reproductive toxicity	
ETHYLBENZENE 100-41-4	.1 - 1		Listed. initial date 6/11/04 - carcinogen

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	20 - 25			Monograph 47 [1989]
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77 [2000]

Ingredient Name CAS-No.	Approx. Weight %	OSHA - Hazard Communication Carcinogens	OSHA - Specifically Regulated Carcinogens	ACGIH Carcinogens
TITANIUM DIOXIDE 13463-67-7	20 - 25	Present		
ETHYLBENZENE 100-41-4	.1 - 1	Present		A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans

12. ECOLOGICAL DATA

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

UN ID Number (msds):	UN1263
Proper Shipping Name:	PAINT
Hazard Class:	3
Packing Group:	III

U.S Hazmat and/or International DG shipment exceptions

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

Reportable Quantity Description:**International Air Transport Association (IATA):**

UN/ID No:	UN1263
Proper shipping name:	Paint
Hazard Class:	3
Packing Group:	III

International Maritime Organization (IMO):

UN/ID No:	UN1263
Proper shipping name:	PAINT
Hazard Class:	3
Packing Group:	III
Marine Pollutant	YES
Marine Pollutant Ingredient 1	NAPHTHA
Marine Pollutant Ingredient 2	AROMATIC NAPHTHA, LIGHT

15. REGULATORY INFORMATION**U.S. FEDERAL REGULATIONS:**

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
BUTYL ACETATE 123-86-4	5 - 10			5000
XYLENE 1330-20-7	1 - 5		form R reporting required for 1.0% de minimis concentration	100
1,2,4-TRIMETHYLBENZENE 95-63-6	1 - 5		Listed.	
TOLUENE 108-88-3	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
ETHYLBENZENE 100-41-4	.1 - 1		form R reporting required for 1.0% de minimis concentration	1000

SARA 311/312 Hazard Class:

Acute:	yes
Chronic:	yes
Flammability:	yes
Reactivity:	no
Sudden Pressure:	no

U.S. STATE REGULATIONS:**Right to Know:**

The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

PROPRIETARY RESIN	Trade Secret
BUTYL ACETATE	123-86-4
PROPRIETARY INERT	Trade Secret
TITANIUM DIOXIDE	13463-67-7
XYLENE	1330-20-7
NAPHTHA	64742-88-7
TOLUENE	108-88-3
MINERAL SPIRITS	64742-47-8
ETHYL 3-ETHOXYPROPIONATE	763-69-9
AROMATIC NAPHTHA, LIGHT	64742-95-6
1,2,4-TRIMETHYLBENZENE	95-63-6

Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

California Proposition 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

US TSCA Inventory:

All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:

All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2*
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:

OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information:

Prepared By: Regulatory Affairs Department
Print date: 25/Aug/2014
Revision Date: 25/Aug/2014

MATERIAL SAFETY DATA SHEET

Page 1 of 3

REMINGTON ARMS COMPANY, INC.
870 REMINGTON DRIVE
MADISON, NC 27025-0700

DATE: April 19, 2010

TELEPHONE NUMBERS:

Product Info - 336/548-8700 or 800/243-9700

Emergency - CHEMTREC 800/424-9300

HMIS RATING:

H - 1; F - 3; R - 0; PPE - N/A

NFPA RATING:

Level 3 Aerosol

SECTION I - PRODUCT IDENTIFICATION

FORMULA NUMBER: MFG. #03043-1G
PRODUCT NUMBER: #18380 - 6 OZ.; #18381 - 9 OZ.; #18382 - 12 OZ.
PRODUCT NAME: WONDERLUBE WITH TEFLON
PRODUCT CLASS: GENERAL PURPOSE THIN FILM LUBRICANT - AEROSOL

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS#	% WT.	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE	
			TLV	PEL	MM	@°C
MINERAL SPIRITS	8052-41-3	<75	100 ppm	100 ppm	2.4	20
* 2-BUTOXYETHANOL, GLYCOL ETHER EB	111-76-2	<05	25 ppm	25 ppm	0.6	20
CARBON DIOXIDE	124-38-9	<25	5000ppm	NE	>760	20

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

SECTION III - PHYSICAL DATA

BOILING RANGE: 300° - 410° F
EVAPORATION RATE: Slower than ether
LBS/GAL: 6.805

VAPOR DENSITY: Heavier Than Air
% VOLATILE : 51.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Aerosol Flammability Classification according to ASTM D-3065-77 and FHSA 1500.45 OSHA -
Flammable Aerosol DOT Consumer Commodities ORM-D

EXTINGUISHING MEDIA: Use carbon dioxide, dry powder or foam.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Do not puncture, incinerate or store above 120E F. Exposure to heat or prolonged exposure to sun may cause bursting. Isolate from heat, electrical equipment, sparks, open flames and hot surfaces.

SPECIAL FIREFIGHTING PROCEDURES: Self-contained respiratory protection should be provided for firefighters fighting flames in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Inhalation X Ingestion X Dermal X

EFFECTS OF OVEREXPOSURE - SHORT-TERM:

- INHALATION - May cause irritation of respiratory tract, nausea, dizziness, headache and depression of the central nervous system. Intentional misuse by deliberately concentrating and inhaling can be harmful or fatal.
- INGESTION - May cause gastrointestinal irritation, nausea, vomiting and depression of the central nervous system.
- SKIN CONTACT - May cause irritation.
- EYE CONTACT - May cause irritation. May cause conjunctivitis of eyes.

EFFECTS OF OVEREXPOSURE - LONG TERM:

May cause skin irritation on prolonged or repeated contact.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY OVEREXPOSURE: None recognized.

EMERGENCY AND FIRST AID PROCEDURES:

- INHALATION - If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.
- INGESTION - DO NOT induce vomiting. Call poison control center, hospital, emergency room or physician immediately.
- SKIN CONTACT - Wash with soap and water.
- EYE CONTACT - Flush with large quantities of water for at least 15 minutes. If irritation from contact persists, get medical attention.

SECTION VI - REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATIONS: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

SECTION VII - SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Avoid breathing vapors. Ventilate area. Flush large spills of material into suitable retaining area or containers with large quantities of water. Small spill can be absorbed by appropriate inert absorbent.

WASTE DISPOSAL: Dispose in accordance with applicable local, state, and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: For OSHA controlled work place, use only with adequate ventilation under engineered air control systems designed to provide maximum appropriate TLV. For occasional use where engineered air control is not feasible, use NIOSH approved respirators. For occasional consumer use, use only with adequate ventilation.

VENTILATION: Adequate ventilation must be provided. See respiratory protection above.

PROTECTIVE GLOVES: Use impermeable gloves to prevent skin irritation.

EYE PROTECTION: Safety glasses, chemical goggles an/or face shields are recommended to safeguard against potential eye contact, irritation, or injury.

OTHER PROTECTIVE EQUIPMENT: Usually none required.

HYGIENIC PRACTICES: Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment which has been contaminated by prior use.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not store near flames or at elevated temperatures.

OTHER PRECAUTIONS: Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warning even after container is empty. Dispose of empty container according to local regulations.

NOTE: THE INFORMATION CONTAINED HEREIN IS FURNISHED WITHOUT WARRANTY OF ANY KIND. EMPLOYERS SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION GATHERED BY THEM AND MUST MAKE INDEPENDENT DETERMINATION OF SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE OF THESE MATERIALS AND THE SAFETY AND HEALTH OF EMPLOYEES. ANY USE OF THIS INFORMATION MUST BE DETERMINED BY THE USER TO BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

SAFETY DATA SHEET

WYPALL® Waterless Cleaning Wipes

Version 1.1 Revision Date: 08-17-2016 MSDS Number: 100000003319 Date of last issue: 08-30-2015
Date of first issue: 08-30-2015

SECTION 1. IDENTIFICATION

Product name : WYPALL® Waterless Cleaning Wipes
Product code : 91371-03, 58310-03, 91054-04, 91367-04, 58028-03

Manufacturer or supplier's details

Company name of supplier : Kimberly-Clark Corporation
Address : 1400 Holcomb Bridge Road,
Roswell, GA 30076-2199
Telephone : 1-888-346-6452
Emergency telephone : 1-877-561-6587

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

GHS label elements

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical name	CAS-No.	Concentration (%)
C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3	68439-46-3	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : No hazards which require special first aid measures.
If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.
In case of skin contact : Not required under normal use.
If symptoms persist, call a physician.
In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
If swallowed : Clean mouth with water and drink afterwards plenty of water.

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DO NOT induce vomiting unless directed to do so by a physician or poison control center.

Most important symptoms and effects, both acute and delayed : No information available.

Notes to physician : No information available.

SECTION 5. FIRE-FIGHTING MEASURES

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

Further information : Standard procedure for chemical fires.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : No conditions to be specially mentioned.

Environmental precautions : No special environmental precautions required.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
No special handling advice required.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

Materials to avoid : No special restrictions on storage with other products.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

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Ingredients	CAS-No.
C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3	68439-46-3

Engineering measures : Not applicable

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Remarks : not required under normal use

Eye protection : Not required under normal use.

Skin and body protection : Not required under normal use.

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Odor : characteristic

pH : 4.75

Boiling point/boiling range : > 212 °C

Flash point : > 93 °C

Upper explosion limit : 20.4 %(V)

Lower explosion limit : 0.6 %(V)

Solubility(ies)
Water solubility : partly soluble

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : No hazards to be specially mentioned.

Conditions to avoid : No data available

SAFETY DATA SHEET

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Date of first issue: 08-30-2015

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Skin corrosion/irritation

Product:

Result: No skin irritation

Ingredients:

C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
GLP: yes

Serious eye damage/eye irritation

Product:

Result: Eye irritation

Ingredients:

C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3:

Species: Rabbit
Result: Risk of serious damage to eyes.
Method: OECD Test Guideline 405
GLP: No information available.

Respiratory or skin sensitization

Product:

Remarks: No data available

Ingredients:

C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3:

Test Type: Maximization Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Did not cause sensitization on laboratory animals.
GLP: no

Carcinogenicity

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.

SAFETY DATA SHEET

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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.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

Ingredients:

C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3:

Biodegradability : Result: Readily biodegradable.

Bioaccumulative potential

Ingredients:

C9-11 PARETH-8; C9-11 PARETH-6; C9-11 PARETH-3:

Partition coefficient: n-octanol/water : log Pow: 3.75

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : In accordance with local and national regulations.

Contaminated packaging : Dispose of as unused product.

SAFETY DATA SHEET

WYPALL® Waterless Cleaning Wipes

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SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : No SARA Hazards

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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.

SAFETY DATA SHEET

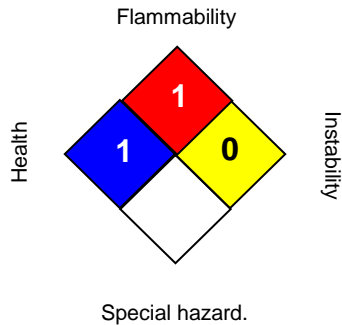
WYPALL® Waterless Cleaning Wipes

Version 1.1 Revision Date: 08-17-2016 MSDS Number: 100000003319 Date of last issue: 08-30-2015
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SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 08-17-2016

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

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