1. IDENTIFICATION

Product Identifier
Product Name SOAKIT

Other means of identification
SDS # TOLCO-001

Recommended use of the chemical and restrictions on use
Recommended Use Absorbent.

Details of the supplier of the safety data sheet
Supplier Address Tolco Corporation
1920 Linwood Ave.
Toledo, OH 43604

Emergency Telephone Number
Company Phone Number Phone: (419) 241-1113
Fax: (419) 241-3035
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Tan granules Physical State Solid Odor Citrus Mint

Classification
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.
3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which, at their given concentration, are considered to be hazardous to health. However, additional component information is available in subsequent sections of this SDS.

Chemical Nature

This product is derived from ground corncobs with added fragrance.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact
Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes.

Inhalation
Remove to fresh air.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects

Symptoms
Nuisance dust on contact may cause mechanical irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Unsuitable Extinguishing Media
Not determined.

Specific Hazards Arising from the Chemical
May form combustible dust mixtures with air.

Hazardous Combustion Products

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Use personal protective equipment as required. Avoid dust formation.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up
Sweep up with a minimum of dusting.
7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Avoid generation of dust. Avoid breathing dusts.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed and store in a cool, dry and well-ventilated place. Store away from incompatible materials. Avoid excessive heat over 300°F.

Incompatible Materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection
Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection
Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Solid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Tan granules</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Tan</td>
<td>Odor</td>
<td>Citrus Mint</td>
</tr>
<tr>
<td>Odor Threshold</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks</td>
<td>Method</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
<td></td>
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</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>176°C OC / 197°C CC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
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</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
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<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.8 - 1.2</td>
<td>(Water = 1)</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>&lt; 10%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Solubility in other solvents: Not determined
Partition Coefficient: Not determined
Auto-ignition Temperature: Not determined
Decomposition Temperature: Not determined
Kinematic Viscosity: Not determined
Dynamic Viscosity: Not determined
Explosive Properties: May form combustible dust mixtures with air.
Oxidizing Properties: Not determined

10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Conditions to Avoid
See Sec. 7 Handling & Storage.

Incompatible Materials

Hazardous Decomposition Products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact
Avoid contact with eyes.

Skin Contact
Avoid contact with skin.

Inhalation
Avoid inhalation of dust.

Ingestion
Do not ingest.

Component Information

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

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

Carcinogenicity
None known.

Numerical measures of toxicity
Not determined
12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

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

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

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
Not regulated

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
Not determined
US Federal Regulations

SARA 313
Not determined

US State Regulations

U.S. State Right-to-Know Regulations
Not determined

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
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<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Issue Date: 26-Jun-2015
Revision Date: 03-Jul-2015
Revision Note: New format

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

End of Safety Data Sheet
Section 1: Product & Company Identification

Trade Name: 0900 WINTAFECT
EPA Reg. No.: 10324-154-34714
Product Class: Quaternary Ammonium Compound
Product Use: Disinfectant/Sanitizer
Manufacturer: ALCO CHEM, Inc.
45 N. Summit Street
Akron, OH 44308

Telephone Numbers:
ChemTel 24 hr. Emergency Assistance: 1-800-288-3924
Product or Company Information: 1-330-253-3535 (Mon – Fri)

Section 2: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkyl dimethyl benzyl ammonium chloride (C_{12-16})</td>
<td>68424-85-1</td>
<td>1.0 – 2.0%</td>
</tr>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>7173-51-5</td>
<td>2.0 – 3.0%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&lt; 1.0%</td>
</tr>
</tbody>
</table>

Section 3: Hazards Identification

Potential Health Effects:

Skin: Causes corrosive burns. Brief exposures may cause irritation and defatting of the skin. Exposures not promptly washed off may lead to toxic effects similar to ingestion. Harmful if absorbed through the skin.

Eyes: Causes burns and may result in permanent injury to eyes including blindness.

Inhalation: Mists and vapors can irritate the throat and respiratory tract. High vapor concentrations may cause central nervous system effects. Symptoms may include headaches, dizziness, and drowsiness. Harmful if inhaled.

Ingestion: Ingestion can cause gastrointestinal irritation, swelling of the larynx, difficulty in breathing, circulatory shock, convulsions and possibly death.

Chronic: Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Section 4: First Aid Measures

Eyes: Immediately flush eyes with water for 15-20 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention at once.

Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: If symptoms are experienced, move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Section 5: Fire Fighting Measures

Flash Point: None when heated to 105°C – Tag Closed Cup
Upper & Lower Flame Limits: Not determined.
Extinguishing Media: Dry chemical, foam, carbon dioxide, water fog or any other agent suitable for surrounding fire.
Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus. Cool fire exposed containers with spray.

Hazardous Combustion Products: Irritating and toxic gases or fumes may be released during a fire.

Unusual Fire Explosion Hazards: Combustion products are toxic.

Section 6: Accidental Release Measures

Spill and Leak Procedures

Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away. Stay upwind. Keep out of low areas where vapors may accumulate. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area).

Spill Cleanup: Ventilate closed spaces before entering. All equipment used when handling the product must be grounded. Floor will be slippery. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Large Spills: Dike far ahead of liquid spill for later disposal. Pump into containers for disposal.

Section 7: Handling & Storage

Handling Procedures: Avoid contact with skin and eyes. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water.

Storage Procedures: Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Do not handle or store near an open flame, heat or other sources of ignition. Prevent electrostatic charge buildup by using common bonding and grounding techniques.

Section 8: Exposure Controls/Personal Protection

Engineering Controls: Provide adequate local exhaust ventilation (explosion proof) to maintain worker exposure below exposure limits.

Personal Protective Equipment:

Eyes/Face: Wear chemical goggles. Use a face shield if splashing is possible.

Skin: Use impervious gloves (rubber or neoprene). Wear suitable protective clothing.

Respiratory: If exposure limits are exceeded or if irritation is experienced, a NIOSH/MSNA approved respirator or an organic/vapor removing cartridge respirator protection device should be worn. Ventilation and other forms of engineering controls are often the preferred means for controlling chemical exposures. Respiratory protection may be needed for non-routine or emergency situations.

General: Eye wash fountain and emergency showers are recommended.

The following ingredients have established exposure guidelines:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Exposure Guideline</th>
<th>Guideline Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol 64-17-5</td>
<td>ACGIH TLV (2005), OSHA PEL &amp; NIOSH REL</td>
<td>1000 ppm (TWA)</td>
</tr>
<tr>
<td></td>
<td>Alberta, British Columbia, Manitoba, New Brunswick, Northwest Territories, (Canada)</td>
<td>1000 ppm (TWA)</td>
</tr>
<tr>
<td></td>
<td>Ontario, Quebec (Canada)</td>
<td>1000 ppm (TWAEV)</td>
</tr>
<tr>
<td></td>
<td>Saskatchewan (Canada)</td>
<td>1000 ppm (TWA), 1250 ppm (STEL)</td>
</tr>
<tr>
<td></td>
<td>Yukon (Canada)</td>
<td>1000 ppm (TWA), 1000 ppm (STEL)</td>
</tr>
<tr>
<td></td>
<td>Mexico</td>
<td>1000 ppm (TWA)</td>
</tr>
<tr>
<td></td>
<td>ACGIH TLV (2005), OSHA PEL &amp; NIOSH REL</td>
<td>1000 ppm (TWA)</td>
</tr>
</tbody>
</table>

All TWAs are for an 8-hour period and all STELs are for 15 minutes unless specifically noted as being for another time period.
Section 9: Physical & Chemical Properties

- **Flash Point:** None when heated to 105°C – Tag Closed Cup
- **Specific Gravity:** 1.00 (8.34lbs/gal)
- **Percent Volatiles:** Not determined.
- **Vapor Pressure:** Not determined.
- **VOC Content:** ~ 1
- **Vapor Density:** Estimated to be heavier than air.
- **Viscosity:** 1.4489 mm²/s (cSt) @ 22°C
- **Evaporation Rate:** Not determined.
- **Pour Point:** Not determined.
- **pH:** 7-10
- **Appearance and Odor:** Clear, colorless to straw colored liquid with benzaldehyde (organic) odor.

Section 10: Stability & Reactivity

- **Chemical Stability:** Material is stable.
- **Conditions to Avoid:** Keep away from heat and strong oxidizing agents.
- **Incompatibilities:** Strong oxidizing agents (may result in fire.), reducing agents.
- **Hazardous Decomposition:** Carbon monoxide, carbon dioxide and toxic hydrogen chloride vapors.
- **Hazardous Polymerization:** Will not occur.

Section 11: Toxicological Information

- **Carcinogenicity:** No Carcinogenicity data available for this product.
- **Acute Oral LD50:** >1000 mg/kg for male and female rats.
- **Acute Dermal LD50:** >2000 mg/kg for male and female rabbits.
- **Primary Skin:** Corrosive.
- **Primary Eye:** Corrosive.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>OSHA</th>
<th>NTP</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 12: Ecological Information

- **Ecotoxicity:** Very Toxic to aquatic organisms
  Information available upon request. Please contact Mason Chemical Company Technical Service Department.
- **Environmental Fate:** This product is biodegradable

Section 13: Disposal Considerations

- **Disposal Instructions:** Although not considered a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate.

  The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, state, and local regulations.

Section 14: Transport Information

- **DOT Hazard Class:** Not regulated.
- **DOT Proper Shipping Name:** Not applicable.

Section 15: Regulatory Information

- **TSCA Status:** While all ingredients are listed on the TSCA Chemical Inventory, this product is regulated as a pesticide under the Federal
Insecticide, Fungicide and Rodenticide Act (FIFRA) and not subject to the TSCA Inventory rules for FIFRA uses.

Other Chemical Inventories
All components of this product are listed on the following inventories: Canada (DSL), China, and Philippines. One or more ingredients are not listed on the following inventories: Australia, European Union, Japan and Korea.

CERCL/SARA
SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370:
Classification of this product: Immediate, Fire
SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Maximum Concentration</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Reportable Quantity (RQ)</th>
<th>Threshold Planning Quantity (TPQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>No ingredients listed in this section.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

State & Provincial Right to Know & Selected Regulatory Lists
The following ingredients appear on various state right to know lists and/or California’s Proposition 65 List

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>State List</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Chloride (trace &lt; 100 ppm)</td>
<td>AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI</td>
</tr>
<tr>
<td>Ethanol</td>
<td>AZ, CA, CT, ID, MA, MN, NJ, PA, RI</td>
</tr>
<tr>
<td>AZ – Arizona Ambient Air Quality Guidelines</td>
<td>MA – Massachusetts Right to Know List</td>
</tr>
<tr>
<td>CT – Connecticut Hazardous Air Pollutants</td>
<td>MN – Minnesota Hazardous Substances List</td>
</tr>
<tr>
<td>CA – California Director’s List of Hazardous Substances</td>
<td>NJ – New Jersey Right to Know List</td>
</tr>
<tr>
<td>CAP65C – California Prop 65 Carcinogen</td>
<td>PA – Pennsylvania Right to Know List</td>
</tr>
<tr>
<td>ID – Idaho Non-carcinogen Toxic Air Pollutants</td>
<td>RI – Rhode Island Hazardous Substances List</td>
</tr>
<tr>
<td>IL – Illinois Toxic Air Contaminant - Carcinogenic</td>
<td></td>
</tr>
</tbody>
</table>

WHMIS Classification: E, D2B. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

| Current Issue Date: | July 2011 |
| Previous Issue Date: | July 2009 |
| Changes from Previous Issue Date: | Review |

Hazard Ratings

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>PPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

Disclaimer

Disclaimer: Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer’s own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be held liable (regardless of fault) to the vendee’s employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

The seller makes no warranty expressed or implied concerning the accuracy or any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.
1. IDENTIFICATION

Product Identifier
Product Name: Sunbrite Ammonia Cleaner

Other means of identification
SDS #: CPD-020

Recommended use of the chemical and restrictions on use
Recommended Use: Cleaning agent.

Details of the supplier of the safety data sheet
Supplier Address: Champion Packaging & Distribution
1840 International pkwy
Woodridge, IL 60517

Emergency Telephone Number
Company Phone Number: 630-972-0100
Emergency Telephone (24 hr): INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Clear liquid
Physical State: Liquid
Odor: Pungent

Classification
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 1

Signal Word
Danger

Hazard Statements
Causes skin irritation
Causes serious eye damage

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN: Wash with plenty of soap and water
Take off contaminated clothing and wash it before reuse
If skin irritation occurs: Get medical advice/attention

Other Hazards
Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>1-10</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is “proprietary” and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

### 4. FIRST-AID MEASURES

**First Aid Measures**

**Eye Contact**
Wash eyes thoroughly and immediately with water for at least 15 minutes. A 5% boric acid solution may be used in place of water. Speed is essential. Get medical attention promptly.

**Skin Contact**
Wash skin thoroughly and immediately with water. Take off contaminated clothing and wash it before reuse. Do not apply salves or ointments or cover burns with dressing. Injured areas should be covered with clean cloth prior to medical care. Do not attempt to neutralize the ammonium hydroxide. If skin irritation occurs: Get medical advice/attention.

**Inhalation**
Take exposed person to fresh air. If unconscious, apply artificial respiration and oxygen as necessary. Get medical attention.

**Ingestion**
Not generally possible; however, if ingestion occurs drink large quantities of water followed by neutralizing agents such as dilute vinegar, lemon juice, orange juice, grapefruit juice or lime juice. Do not induce vomiting. Get medical attention.

**Most important symptoms and effects**

**Symptoms**
Causes skin irritation. Causes serious eye damage.

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

**Notes to Physician**
Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**
Carbon dioxide (CO2). Dry chemical. Water spray (fog).

**Unsuitable Extinguishing Media**
Not determined.

**Specific Hazards Arising from the Chemical**
Not considered to be a fire hazard. Not considered to be an explosion hazard.

**Hazardous Combustion Products**
Mixing with household bleach will cause a dangerous production of chlorine gas and oxygen.
Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use personal protective equipment as required.

Methods and material for containment and cleaning up

Methods for Containment Contain spill to minimize ammonia vaporization.

Methods for Clean-Up Dilute with water and flush to local sewer system, if permitted. Solid waste must be disposed of in a permitted waste management facility. Ensure compliance with local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in cool, dry, ventilated area. Protect against physical damage. Keep separate from incompatibles.


8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Necessary to meet OSHA TLV.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses.

Skin and Body Protection Plastic gloves.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Take all practical measures necessary to avoid contact.
# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Property</strong></td>
<td><strong>Values</strong></td>
<td><strong>Remarks • Method</strong></td>
</tr>
<tr>
<td>pH</td>
<td>11.2-11.8</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>27 °C / 80.6 °F</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid - Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>590</td>
<td>at 37.8°C (100°F)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>0.59</td>
<td>at 0°C (32°F)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.9825</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Completely soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>

---

# 10. STABILITY AND REACTIVITY

**Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

This substance does not polymerize.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible Materials**


**Hazardous Decomposition Products**

Mixing with household bleach will cause a dangerous production of chlorine gas and oxygen.

---

# 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Eye Contact**

Causes serious eye damage.
Skin Contact: Causes skin irritation.

Inhalation: Do not inhale.

Ingestion: Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide 1336-21-6</td>
<td>= 350 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.

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

Carcinogenicity: This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide 1336-21-6</td>
<td></td>
<td>8.2: 96 h Pimephales promelas mg/L LC50</td>
<td></td>
<td>0.66: 48 h water flea mg/L EC50 0.66: 48 h Daphnia pulex mg/L EC50</td>
</tr>
</tbody>
</table>

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined.

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

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

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Status

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>Toxic</td>
</tr>
<tr>
<td>1336-21-6</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Note: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT: Not regulated

IATA: Not regulated

IMDG: Marine Pollutant This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>RQ 1000 lb final RQ</td>
</tr>
<tr>
<td>1336-21-6</td>
<td></td>
<td></td>
<td>RQ 454 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1336-21-6</td>
<td>4</td>
<td>1.0</td>
</tr>
<tr>
<td>1336-21-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide</td>
<td>1000 lb</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>1336-21-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium hydroxide 1336-21-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>1</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>1</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>

Issue Date: 01-April-2015
Revision Date: 02-Dec-2014
Revision Note: New format

Disclaimer

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

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: DUST MOP DUST CLOTH TREATMENT
Product Number: 3013, 3213
Recommended Use: Dust cloth treatment
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier:
Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements
Signal Word: Warning
Symbols:

Hazard Statements:
Causes serious eye irritation

Precautionary Statements:
Prevention: Wash hands and any exposed skin thoroughly after handling. Wear eye / face protection
Response:
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
-Specific Treatment:

Storage: Not Applicable
Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:
• May be harmful if swallowed.
• May cause skin irritation.
• Inhalation of vapors or mist may cause respiratory irritation.
• Keep out of reach of children.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>petroleum distillate</td>
<td>64742-46-7</td>
<td>1-5</td>
</tr>
<tr>
<td>ethylene glycol</td>
<td>107-21-1</td>
<td>1-5</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>68131-39-5</td>
<td>1-5</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

-Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Skin Contact: Wash with soap and water. If skin irritation occurs: Get medical attention.

-Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.

-Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Note to Physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire

Specific Hazards Arising from the Chemical: Dried product is capable of burning. Combustion products are toxic

Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol</td>
<td>Ceiling: 100 mg/m³</td>
<td>(vacated) Ceiling: 50 ppm</td>
<td>-</td>
</tr>
<tr>
<td>107-21-1</td>
<td>aerosol only</td>
<td>(vacated) Ceiling: 125 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>
Engineering Controls: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment
Eye/Face Protection: Wear splash goggles.
Skin and Body Protection: Wear rubber or other chemical-resistant gloves.
Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.


### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>White emulsion</td>
</tr>
<tr>
<td>Odor</td>
<td>Fresh</td>
</tr>
<tr>
<td>pH</td>
<td>8.5-9.5</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.00</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Miscible in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.

### 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
- Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
- Skin Contact: Drying of the skin.
- Inhalation: Nasal discomfort and coughing.
- Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.
Target Organ Effects: Central nervous system. -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 13529 mg/kg
ATEmix (dermal): 35962 mg/kg

<table>
<thead>
<tr>
<th>Component</th>
<th>Acute Toxicity Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td><strong>Oral LD50</strong>: &gt; 90 mL/kg (Rat)</td>
</tr>
<tr>
<td>petroleum distillate 64742-46-7</td>
<td><strong>Oral LD50</strong>: 7400 mg/kg (Rat)</td>
</tr>
<tr>
<td>ethylene glycol 107-21-1</td>
<td><strong>Oral LD50</strong>: 4000 mg/kg (Rat)</td>
</tr>
<tr>
<td>alcohol ethoxylate 68131-39-5</td>
<td><strong>Oral LD50</strong>: 2 g/kg (Rat)</td>
</tr>
</tbody>
</table>

**Carcinogenicity:** No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>petroleum distillate 64742-46-7</td>
<td>Not Available</td>
<td>35: 96 h Pimephales promelas mg/L LC50 14 - 18: 96 h Pimephales promelas mg/L LC50 static</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>ethylene glycol 107-21-1</td>
<td>6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static</td>
<td>Not Available</td>
<td>46300: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Other Adverse Effects:** No information available.

### 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

### 14. TRANSPORT INFORMATION

**DOT:** Not Regulated

**Proper Shipping Name:** Non Hazardous Product

### 15. REGULATORY INFORMATION

**TSCA Status:** (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

**SARA 313**

This product contains the following listed substances:
ethyleneglycol  
CAS No 107-21-1

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard:</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard:</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>diethanolamine - 111-42-2</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>NFPA</th>
<th>Health Hazards:</th>
<th>Flammability:</th>
<th>Instability:</th>
<th>Special:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>HMIS</th>
<th>Health Hazards:</th>
<th>Flammability:</th>
<th>Physical Hazards:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Revision Date: 13-Mar-2015
Reasons for Revision: No information available.

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

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: CLEAN ON THE GO NABC CONCENTRATE [1]
Product Number: 4716
Recommended Use: Disinfectant
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier:
Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 1

GHS Label Elements
Signal Word: Danger
Symbols:

Hazard Statements:
Causes skin irritation.
Causes serious eye damage

Precautionary Statements:
Prevention:
Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection
Wear protective gloves

Response:
-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 PHYSICIAN.
-Skin
IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
-Specific Treatment:
See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage: Not Applicable
Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable
Other Information:
- Corrosive.
- Harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.
- NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

0.04124% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride</td>
<td>68424-85-1</td>
<td>1-5</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>68439-46-3</td>
<td>1-5</td>
</tr>
<tr>
<td>isopropanol</td>
<td>67-63-0</td>
<td>1-5</td>
</tr>
<tr>
<td>fragrance</td>
<td>PROPRIETARY</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

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

### 4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- **Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire.

**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

### 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropanol</td>
<td>STEL: 400 ppm</td>
<td>TWA: 400 ppm</td>
<td>IDLH: 2000 ppm</td>
</tr>
<tr>
<td>67-63-0</td>
<td>TWA: 200 ppm</td>
<td>TWA: 980 mg/m³</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 400 ppm</td>
<td>(vacated) TWA: 980 mg/m³</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 500 ppm</td>
<td>(vacated) STEL: 1225 mg/m³</td>
<td>STEL: 500 ppm</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment
Eye/Face Protection: Wear splash goggles.
Skin and Body Protection: Wear rubber or other chemical-resistant gloves.
Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Floral fragrance</td>
</tr>
<tr>
<td>pH</td>
<td>5.0-6.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.00</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

## 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure:** Eyes, Skin, Ingestion, Inhalation.

**Symptoms of Exposure:**
- **Eye Contact:** Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
- **Skin Contact:** Pain, redness and cracking of the skin.
- **Inhalation:** Nasal discomfort and coughing.
- **Ingestion:** Ingestion may cause irritation to mucous membranes. Pain, nausea, vomiting and diarrhea.

### Immediate, Delayed, Chronic Effects

**Product Information:** Data not available or insufficient for classification.

**Target Organ Effects:**
- Eyes. Respiratory System. -Skin.

### Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

- **ATEmix (oral):** 2021 mg/kg
- **ATEmix (dermal):** 6340 mg/kg
- **ATEmix (inhalation-dust/mist):** 7175 mg/l
- **ATEmix (inhalation-vapor):** 747 mg/l

### Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>alkyl dimethyl benzyl ammonium chloride 68424-85-1</td>
<td>= 426 mg/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>alcohol ethoxylate 68439-46-3</td>
<td>= 1378 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
<tr>
<td>isopropanol 67-63-0</td>
<td>= 4396 mg/kg (Rat)</td>
<td>= 12800 mg/kg (Rat) = 12870 mg/kg (Rabbit)</td>
<td>= 72.6 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

### Carcinogenicity:
No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>isopropanol 67-63-0</td>
<td>1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50</td>
<td>9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static 1400000: 96 h Lepomis macrochirus µg/L LC50</td>
<td>Not Available</td>
<td>13299: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

### Persistence and Degradability:
No information available.

### Bioaccumulation:
No information available.

### Other Adverse Effects:
No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal of Wastes:** Dispose of in accordance with federal, state and local regulations.

**Contaminated Packaging:** Dispose of in accordance with federal, state and local regulations.

## 14. TRANSPORT INFORMATION
DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product contains the following listed substances:
isopropanol
CAS No 67-63-0 only if manufactured by the strong acid process, no supplier notification

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

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol - 64-17-5</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>acetaldehyde - 75-07-0</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

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

EPA Pesticide Registration Number: 5741-20
EPA Statement:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:
DANGER. Corrosive. Causes irreversible eye damage. Harmful if absorbed through the skin. Harmful if swallowed. Do not get in eyes, skin or on clothing. Wear protective eye wear (goggles/face shield/safety glasses), rubber gloves and protective clothing. After product is diluted in accordance with the directions for use, protective eye wear is not required. Wash thoroughly with soap and water after handling and before eating, drinking, smoking tobacco, chewing gum, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards: 3</th>
<th>Flammability: 0</th>
<th>Instability: 0</th>
<th>Special: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards: 3</td>
<td>Flammability: 0</td>
<td>Physical Hazards: 0</td>
<td></td>
</tr>
</tbody>
</table>

Revision Date: 07-May-2015
Reasons for Revision: No information available.

Disclaimer:
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End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: CLEAN ON THE GO CLEAN BY PEROXY [15]
Product Number: 4820
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only
Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements
Signal Word: Warning
Symbols:

Hazard Statements: Causes serious eye irritation
Causes skin irritation.

Precautionary Statements:
Prevention: Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves
Wear eye / face protection

Response:
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage: Not Applicable
Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable
Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>34398-01-1</td>
<td>1-5</td>
</tr>
<tr>
<td>hydrogen peroxide</td>
<td>7722-84-1</td>
<td>1-5</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>68439-46-3</td>
<td>1-5</td>
</tr>
<tr>
<td>quaternary amine</td>
<td>68478-94-4</td>
<td>1-5</td>
</tr>
<tr>
<td>fragrance</td>
<td>PROPRIETARY</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

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

### 4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** Contains hydrogen peroxide. Ingestion may result in distention of esophagus and stomach.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire.

**Specific Hazards Arising from the Chemical:** Combustion products are toxic. Releases oxygen when heated to decomposition which may intensify fire.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

### 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites). Metals.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide</td>
<td>TWA: 1 ppm</td>
<td>(vacated) TWA: 1 ppm</td>
<td>IDLH: 75 ppm</td>
</tr>
<tr>
<td>7722-84-1</td>
<td></td>
<td>(vacated) TWA: 1.4 mg/m³</td>
<td>TWA: 1 ppm</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Light blue</td>
</tr>
<tr>
<td>Odor</td>
<td>Pleasant</td>
</tr>
<tr>
<td>pH</td>
<td>Undiluted: 2.1-3.0 / Diluted 1:64: 3.0-4.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (BuAc = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.014</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

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

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Metals.

Hazardous Decomposition: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.

Skin Contact: Pain, redness and cracking of the skin.

Inhalation: Nasal discomfort and coughing.

Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.


Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 7035 mg/kg
ATEmix (dermal): 39625 mg/kg
ATEmix (inhalation-gas): 22943 mg/l
ATEmix (inhalation-dust/mist): 66 mg/l

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>hydrogen peroxide</td>
<td>= 801 mg/kg (Rat)</td>
<td>= 4060 mg/kg (Rat) = 2000 mg/kg (Rabbit)</td>
<td>= 2 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>= 1378 mg/kg (Rat)</td>
<td>&gt; 2 g/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrogen peroxide</td>
<td>2.5: 72h Chlorella vulgaris mg/L EC50</td>
<td>16.4: 96h Pimephales promelas mg/L LC50 18 - 56: 96h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96h Oncorhynchus mykiss mg/L LC50 static</td>
<td>Not Available</td>
<td>7.7: 24h Daphnia magna mg/L EC50 18 - 32: 48h Daphnia magna mg/L EC50 Static</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the "de minimus" level
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

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>chloromethane - 74-87-3</td>
<td>Developmental  Male Reproductive</td>
</tr>
<tr>
<td>acetaldehyde - 75-07-0</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

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

16. OTHER INFORMATION

NFPA
- Health Hazards: 2
- Flammability: 0
- Instability: 1
- Special: N/A

HMIS
- Health Hazards: 2
- Flammability: 0
- Physical Hazards: 1

Revision Date: 17-Dec-2014
Reasons for Revision: No information available.

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

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: CLEAN ON THE GO TRIBASE MULTIPURPOSE CLEANER [17]
Product Number: 4830
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier:
Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements
Signal Word: Warning
Symbols:

Hazard Statements:
Causes serious eye irritation

Precautionary Statements:
Prevention: Wear eye / face protection
Wash hands and any exposed skin thoroughly after handling.

Response:
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:
Not Applicable
Disposal:
Not Applicable

Hazard Not Otherwise Classified: Not Applicable

Other Information:
- May cause skin irritation.
- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>alkyl polyglucoside</td>
<td>68515-73-1</td>
<td>1-5</td>
</tr>
<tr>
<td>alcohol ethoxylate</td>
<td>68991-48-0</td>
<td>1-5</td>
</tr>
<tr>
<td>ethoxylated alkyl quaternary</td>
<td>61791-10-4</td>
<td>1-5</td>
</tr>
<tr>
<td>alkyl polyglucoside</td>
<td>110615-47-9</td>
<td>1-5</td>
</tr>
<tr>
<td>fragrance</td>
<td>PROPRIETARY</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- **Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

**Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire

**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** None established.
Engineering Controls: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Not required with expected use.

Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance/Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>dark yellow</td>
</tr>
<tr>
<td>Odor:</td>
<td>Pleasant</td>
</tr>
<tr>
<td>pH:</td>
<td>Undiluted: 8.0-9.0 / Diluted 1:64: 7.0-8.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (BuAc = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.005</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

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

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight.


Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:

-Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.

-Skin Contact: Drying of the skin.

-Inhalation: Nasal discomfort and coughing.

-Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.
Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 55209 mg/kg

<table>
<thead>
<tr>
<th>Component Acute Toxicity Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>water 7732-18-5</td>
</tr>
<tr>
<td>ethoxylated alkyl quaternary 61791-10-4</td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity
No information available.

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non-Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the "de minimus" level

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

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>formaldehyde - 50-00-0</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION
<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards: 2</th>
<th>Flammability: 0</th>
<th>Instability: 0</th>
<th>Special: N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazards: 2</td>
<td>Flammability: 0</td>
<td>Physical Hazards: 0</td>
<td></td>
</tr>
</tbody>
</table>

Revision Date: 01-Dec-2014
Reasons for Revision: No information available.

Disclaimer:
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End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** DUST MOP / DUST CLOTH TREATMENT (AEROSOL)

**Product Number:** 6099

**Recommended Use:** Cleaning agent

**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

- Medical Emergency/Information: 888-314-6171
- Transportation/Spill/Leak: CHEMTREC 800-424-9300

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2. HAZARDS IDENTIFICATION

**GHS Classification**

- Flammable Aerosols
- Gases Under Pressure

**GHS Label Elements**

- **Signal Word:** Danger

- **Symbols:**

**Hazard Statements:**

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

**Precautionary Statements:**

**Prevention:**

- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Do not spray on an open flame or other ignition source
- Pressureized container: Do not pierce or burn, even after use
- Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

**Response:**

- Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

**Storage:**

- Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place

**Disposal:**

- Not Applicable

**Hazards Not Otherwise Classified:**

- Not Applicable
Other Information:
- May be harmful if swallowed.
- May cause eye irritation.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>40-70</td>
</tr>
<tr>
<td>petroleum distillates</td>
<td>64742-47-8</td>
<td>5-10</td>
</tr>
<tr>
<td>mineral oil</td>
<td>8042-47-5</td>
<td>5-10</td>
</tr>
<tr>
<td>N-butane</td>
<td>106-97-8</td>
<td>3-7</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>1-5</td>
</tr>
<tr>
<td>decaglyceryl monooleate</td>
<td>9007-48-1</td>
<td>1-5</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

- **Eye Contact:** 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.
- **Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Note to Physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Water spray (fog), Foam
- **Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.
- **Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- **Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Do not rinse spill onto the ground, into storm sewers or bodies of water.
- **Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- **Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-butane</td>
<td>TWA: 1000 ppm</td>
<td>(vacated) TWA: 800 ppm</td>
<td>TWA: 800 ppm</td>
</tr>
<tr>
<td>106-97-8</td>
<td>(vacated) TWA: 1900 mg/m³</td>
<td>TWA: 1900 mg/m³</td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>IDLH: 2100 ppm</td>
</tr>
<tr>
<td>74-98-6</td>
<td>TWA: 1800 mg/m³</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1800 mg/m³</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

**Personal Protective Equipment**

- **Eye/face Protection:** Not required with expected use.
- **Skin and Body Protection:** Not required with expected use.
- **Respiratory Protection:** Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/physical state</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Color</td>
<td>White emulsion</td>
</tr>
<tr>
<td>Odor</td>
<td>Bland</td>
</tr>
<tr>
<td>pH</td>
<td>8.0-9.0</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>132 °C / 270 °F (Product without propellant) Estimated</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt; -58 °C / &lt; -72 °F (Propellant-estimated)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.95 (Product without propellant)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.
**Chemical Stability:** Stable under normal conditions.
**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.
**Conditions to Avoid:** Extremes of temperature and direct sunlight.
**Incompatible Materials:** Strong oxidizing agents. Strong acids.
11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:
- Eye Contact: Pain and redness.
- Skin Contact: Drying of the skin.
- Inhalation: Nasal discomfort and coughing.
- Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Target Organ Effects: Central nervous system.

Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 27233 mg/kg
ATEmix (dermal): 20202 mg/kg
ATEmix (inhalation-gas): 3021468 mg/l

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>7732-18-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>petroleum distillates</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rabbit)</td>
<td>&gt; 5.2 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>64742-47-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>mineral oil</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>8042-47-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-butane</td>
<td>Not Available</td>
<td>Not Available</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>106-97-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>propane</td>
<td>Not Available</td>
<td>Not Available</td>
<td>= 658 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>74-98-6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>petroleum distillates 64742-47-8</td>
<td>Not Available</td>
<td>45: 96 h Pimephales promelas mg/L LC50 flow-through 2:2; 96 h Lepomis macrochirous mg/L LC50 static 2:4; 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>Not Available</td>
<td>4720: 96 h Den-dronereides heteropoda mg/L LC50</td>
</tr>
<tr>
<td>mineral oil 8042-47-5</td>
<td>Not Available</td>
<td>10000: 96 h Lepomis macrochirous mg/L LC50</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

DOT:
UN/ID No: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity.

IMDG:
UN/ID No: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Additional information: Limited Quantity

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the “de minimus” level

SARA 311/312 Hazard Categories
Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden release of pressure hazard: Yes
Reactive Hazard: No

California Proposition 65
This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA Health Hazards: 1 Flammability: 1 Instability: 0 Special: N/A
HMIS Health Hazards: 1 Flammability: 2 Physical Hazards: 2

Revision Date: 11-Aug-2015
Reasons for Revision: Section 14 and 15

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

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: M*95
Product Number: 7115, 7495
Recommended Use: Acid cleaner
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Acute Toxicity - Inhalation (Gases): Category 4
Acute toxicity - Inhalation (Dusts/Mists) Category 3
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1
Corrosive to Metals: Category 1

GHS Label Elements
Signal Word: Danger

Hazard Statements: Toxic if inhaled
Causes severe skin burns and serious eye damage.
May be corrosive to metals.

Precautionary Statements:
Prevention: Use only outdoors or in a well-ventilated area.
Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.
Keep in original or other corrosion resistant container.

Response: IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
-Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
-Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Spill: Absorb spillage to prevent material damage.
Storage: Store in a well-ventilated place. Keep container tightly closed.
      Store locked up.
      Store in corrosion resistant container.
Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:
• Corrosive.
• May be fatal if swallowed.
• Inhalation of vapors or mist may cause respiratory irritation or damage.
• Keep out of reach of children.
• NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>hydrochloric acid</td>
<td>7647-01-0</td>
<td>5-10</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

- Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact: Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician.
- Ingestion: Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

Note to Physicians: NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical: Contact with metals may evolve flammable hydrogen gas. Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrochloric acid</td>
<td>Ceiling: 2 ppm</td>
<td>(vacated) Ceiling: 5 ppm</td>
<td>IDLH: 50 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td>Ceiling: 7 mg/m³</td>
<td>Ceiling: 7 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered. Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles. For severe use-conditions, wear a face shield over the goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

Respiratory Protection: Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance/Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Green</td>
</tr>
<tr>
<td>Odor</td>
<td>Pine fragrance</td>
</tr>
<tr>
<td>pH</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.04</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
- Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
- Skin Contact: Pain, redness, blistering and possible chemical burn.
- Inhalation: Nasal discomfort and coughing. Irritation or damage to the mucus membranes of the respiratory tract.
- Ingestion: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.
Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

| ATEmix (oral): | 7570 mg/kg |
| ATEmix (dermal): | 54181 mg/kg |
| ATEmix (inhalation-gas): | 16892 mg/l |
| ATEmix (inhalation-dust/mist): | 0.5 mg/l |

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>hydrochloric acid 7647-01-0</td>
<td>= 700 mg/kg (Rat)</td>
<td>&gt; 5010 mg/kg (Rabbit)</td>
<td>= 3124 ppm (Rat) 1 h</td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrochloric acid 7647-01-0</td>
<td>Not Available</td>
<td>282: 96 h Gambusia affinis mg/L LC50 static</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

DOT:
UN/ID No: 1760
Proper Shipping Name: Corrosive liquids, n.o.s.,(contains hydrochloric (muriatic) acid)
Hazard Class: 8
Packing Group: III

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product contains the following listed substances:
hydrochloric acid
CAS No 7647-01-0 acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>acetaldehyde - 75-07-0</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

NFPA
Health Hazards: 3
Flammability: 0
Instability: 0
Special: N/A

HMIS
Health Hazards: 3
Flammability: 0
Physical Hazards: 0

Revision Date: 10-Nov-2014
Reasons for Revision: No information available.

Disclaimer:
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End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: SPARCLING
Product Number: 7118, 7108
Recommended Use: Disinfectant
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Acute Toxicity - Inhalation (Gases): Category 4
Acute toxicity - Inhalation (Dusts/Mists) Category 4
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1
Corrosive to Metals: Category 1

GHS Label Elements
Signal Word: Danger
Symbols:

Hazard Statements: Harmful if inhaled.
Causes severe skin burns and serious eye damage.
May be corrosive to metals.

Precautionary Statements:
Prevention: Use only outdoors or in a well-ventilated area.
Do not breathe mist, vapors or spray.
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves. Wear eye/face protection. Wear protective clothing.
Keep in original or other corrosion resistant container.

Response: IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
-Skin IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
-Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
-Ingestion: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Specific Treatment: See Safety Data Sheet Section 4: “FIRST AID MEASURES” for additional information.

Spill: Absorb spillage to prevent material damage.
Storage: Store locked up. Store in corrosion resistant container.
Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:
• Corrosive.
• Harmful if swallowed
• Do not mix with hypochlorite-type bleach or other household chemicals as hazardous vapors or gases may be produced.
• Keep out of reach of children.
• NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

3.11613% of the mixture consists of ingredient(s) of unknown toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>60-100</td>
</tr>
<tr>
<td>hydrochloric acid</td>
<td>7647-01-0</td>
<td>7-13</td>
</tr>
<tr>
<td>betaines, bis(hydroxyethyl)tallow alkyl</td>
<td>70750-46-8</td>
<td>1-5</td>
</tr>
</tbody>
</table>

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

### 4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- **Skin Contact:** Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
- **Note to Physicians:** NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. FIRE-FIGHTING MEASURES

- **Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- **Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic. Contact with metals may evolve flammable hydrogen gas.
- **Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- **Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- **Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- **Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: None established.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrochloric acid</td>
<td>Ceiling: 2 ppm</td>
<td>(vacated) Ceiling: 5 ppm</td>
<td>IDLH: 50 ppm</td>
</tr>
<tr>
<td>7647-01-0</td>
<td></td>
<td>(vacated) Ceiling: 7 mg/m³</td>
<td>Ceiling: 5 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling: 7 mg/m³</td>
<td>Ceiling: 7 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance/Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Green</td>
</tr>
<tr>
<td>Odor:</td>
<td>Mint fragrance</td>
</tr>
<tr>
<td>pH:</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 100 °C / &gt; 212 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.04</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

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

Chemical Stability:
Stable under normal conditions.

Possibility of Hazardous Reactions:
Not expected to occur with normal handling and storage.

Conditions to Avoid:
Extremes of temperature and direct sunlight.

Incompatible Materials:
Sodium hypochlorite (or other hypochlorites). Strong bases. Reactive metals such as aluminum, zinc and tin.

Hazardous Decomposition Products:
May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:
Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:
- Eye Contact:
Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.

- Skin Contact:
Pain, redness, blistering and possible chemical burn.

- Inhalation:
Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.

- Ingestion:
Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.


Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document:

- ATEmix (oral): 5068 mg/kg
- ATEmix (dermal): 26843 mg/kg
- ATEmix (inhalation-gas): 15152 mg/l
- ATEmix (inhalation-dust/mist): 4.6 mg/l

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>hydrochloric acid 7647-01-0</td>
<td>= 700 mg/kg (Rat)</td>
<td>&gt; 5010 mg/kg (Rabbit)</td>
<td>= 3124 ppm (Rat) 1 h</td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>hydrochloric acid 7647-01-0</td>
<td>Not Available</td>
<td>282: 96 h Gambusia affinis mg/L LC50 static</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.
US EPA Waste Number: D002
14. TRANSPORT INFORMATION

DOT:
UN/ID No: UN1760
Proper Shipping Name: Corrosive liquids, n.o.s., (contains hydrochloric (muriatic) acid)
Hazard Class: 8
Packing Group: III
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product contains the following listed substances:
hydrochloric acid
CAS No  7647-01-0 acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size

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

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol - 64-17-5</td>
<td>Carcinogen, Developmental</td>
</tr>
</tbody>
</table>

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

EPA Pesticide Registration Number: 5741-17
EPA Statement:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:
Danger. Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin or on clothing. Avoid breathing vapor or spray mist. Wear coveralls over long-sleeved shirt and long pants, socks and chemical-resistant footwear, goggles or face shield, and chemical resistant gloves (such as barrier laminate or butyl) rubber, nitrile rubber, neoprene rubber, PVC or viton). Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

16. OTHER INFORMATION

NFPA
Health Hazards: 3  Flammability: 0  Instability: 0  Special: N/A

HMIS
Health Hazards: 3  Flammability: 0  Physical Hazards: 0

Revision Date: 07-May-2015
Reasons for Revision: No information available.
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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name: SPARCREME
Product Number: 7320
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:
Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification
Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A
Carcinogenicity: Category 1A

GHS Label Elements
Signal Word: Danger
Symbols:

Hazard Statements:
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation
May cause cancer

Precautionary Statements:
Prevention:
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product

Response:
If exposed or concerned: Get medical attention.
-Eyes
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin
IF ON SKIN (or hair): Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
- Ingestion:
IF SWALLOWED: Call a poison center or physician if you feel unwell. Rinse mouth.
-Specific Treatment:
See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
Storage: Store locked up.
Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable
Other Information: • Contains respirable crystalline quartz which may cause cancer if inhaled.
• Keep out of reach of children.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>40-70</td>
</tr>
<tr>
<td>quartz</td>
<td>14808-60-7</td>
<td>10-30</td>
</tr>
<tr>
<td>citric acid</td>
<td>77-92-9</td>
<td>1-5</td>
</tr>
<tr>
<td>alkyl(C10-16)benzenesulfonic acid</td>
<td>68584-22-5</td>
<td>1-5</td>
</tr>
<tr>
<td>xanthan gum</td>
<td>11138-66-2</td>
<td>1-5</td>
</tr>
<tr>
<td>triethanolamine</td>
<td>102-71-6</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

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

### 4. FIRST AID MEASURES

- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- **Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- **Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a poison center or physician if you feel unwell.

**Note to Physicians:** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire

**Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.

**Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

**Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.

**Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

### 7. HANDLING AND STORAGE

**Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites).

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz 14808-60-7</td>
<td>TWA: 0.025 mg/m³ respirable fraction</td>
<td>(vacated) TWA: 0.1 mg/m³ respirable dust</td>
<td>IDLH: 50 mg/m³ respirable dust</td>
</tr>
<tr>
<td></td>
<td>: (30)/(%SiO₂ + 2) mg/m³ TWA total dust</td>
<td>: (250)/(%SiO₂ + 5) mppcf TWA respirable fraction</td>
<td>TWA: 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td></td>
<td>: (10)/(%SiO₂ + 2) mg/m³ TWA respirable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Engineering Controls:
Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

#### Personal Protective Equipment

**Eye/Face Protection:** Wear splash goggles.

**Skin and Body Protection:** Wear rubber or other chemical-resistant gloves.

**Respiratory Protection:** Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

**General Hygiene Considerations:** Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance/Physical State:</th>
<th>Paste/Gel Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Light green</td>
</tr>
<tr>
<td>Odor:</td>
<td>Pleasant</td>
</tr>
<tr>
<td>pH:</td>
<td>2.0-2.5</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>100 °C / 212 °F</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 100 °C / &gt; 212 °F</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (Butyl acetate = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.185</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>partially soluble</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity:** This material is considered to be non-reactive under normal conditions of use.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Not expected to occur with normal handling and storage.

**Conditions to Avoid:** Extremes of temperature and direct sunlight.

**Incompatible Materials:** Sodium hypochlorite (or other hypochlorites).
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
- Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
- Skin Contact: Pain, redness and cracking of the skin.
- Inhalation: Nasal discomfort and coughing.
- Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Contains respirable crystalline quartz which may cause cancer if inhaled.

Target Organ Effects:
- Eyes. Lungs. Respiratory System.

Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 1835 mg/kg
ATEmix (dermal): 57237 mg/kg

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td>&gt; 90 mL/kg  (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>quartz 14808-60-7</td>
<td>= 500 mg/kg  (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>citric acid 77-92-9</td>
<td>= 3000 mg/kg  (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>alkyl(C10-16)benzenesulfonic acid 68584-22-5</td>
<td>= 530 mg/kg  (Rat)</td>
<td>= 530 mg/kg  (Rat)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz 14808-60-7</td>
<td>A2</td>
<td>Group 1</td>
<td>Known</td>
<td>Listed</td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists): A2 - Suspected Human Carcinogen
IARC (International Agency for Research on Cancer): Group 1 - Carcinogenic to Humans
NTP (National Toxicology Program): Known - Known Carcinogen

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>citric acid 77-92-9</td>
<td>Not Available</td>
<td>1516: 96 h Lepomis macrochirus mg/L LC50 static</td>
<td>Not Available</td>
<td>120: 72 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>alkyl(C10-16)benzenesulfonic acid 68584-22-5</td>
<td>Not Available</td>
<td>3: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>Not Available</td>
<td>2.9: 48 h Daphnia magna mg/L EC50</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.
14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Sudden release of pressure hazard: No
Reactive Hazard: No

California Proposition 65
This product contains the following Proposition 65 chemicals

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>quartz - 14808-60-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>sulfuric acid - 7664-93-9</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>formaldehyde - 50-00-0</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>diethanolamine - 111-42-2</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>methanol - 67-56-1</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

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

16. OTHER INFORMATION

NFPA
Health Hazards: 2
Flammability: 0
Instability: 0
Special: N/A

HMIS
Health Hazards: 2*
Flammability: 0
Physical Hazards: 0

Revision Date: 08-Oct-2014
Reasons for Revision: No information available.

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

End of Safety Data Sheet
1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name:** BLOC-AID

**Product Number:** 7380, 7585

**Recommended Use:** Drain treatment

**Uses Advised Against:** For Industrial and Institutional Use Only

**Manufacturer/Supplier:** Spartan Chemical Company, Inc.

1110 Spartan Drive

Maumee, Ohio 43537 USA

800-537-8990 (Business hours)

www.spartanchemical.com

**24 Hour Emergency Phone Numbers:**

- Medical Emergency/Information: 888-314-6171
- Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

**GHS Classification**

- **Skin Corrosion/Irritation:** Category 1 Sub-category A
- **Serious Eye Damage/Eye Irritation:** Category 1
- **Corrosive to Metals:** Category 1

**GHS Label Elements**

**Signal Word:** Danger

**Symbols:**

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

**Precautionary Statements:**

**Prevention:**

Do not breathe mist, vapors or spray.

Wash hands and any exposed skin thoroughly after handling.

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

Keep in original or other corrosion resistant container.

**Response:**

- **IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.**
- **-Eyes**
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- **-Skin**
  - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.
- **-Inhalation:**
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- **-Ingestion:**
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- **-Specific Treatment:**
  - See Safety Data Sheet Section 4: “FIRST AID MEASURES” for additional information.

**Spill:**

Absorb spillage to prevent material damage.
Storage: Store locked up.
Disposal: Store in corrosion resistant container.
Hazards Not Otherwise Classified: Not Applicable
Other Information:
- Corrosive.
- May be fatal if swallowed.
- Harmful contact may not cause immediate pain.
- Inhalation of vapors or mist may cause respiratory irritation or damage.
- Take off and destroy contaminated shoes.
- Keep out of reach of children.
- NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>water</td>
<td>7732-18-5</td>
<td>40-70</td>
</tr>
<tr>
<td>sodium hydroxide</td>
<td>1310-73-2</td>
<td>15-40</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

- Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Skin Contact: Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
- Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
- Ingestion: Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

Note to Physicians: NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire.
Specific Hazards Arising from the Chemical: Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Incompatible Materials: Reactive metals such as aluminum, zinc and tin. Contact with metals may evolve flammable hydrogen gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hydroxide</td>
<td>Ceiling: 2 mg/m³</td>
<td>TWA: 2 mg/m³ (vacated) Ceiling: 2 mg/m³</td>
<td>IDLH: 10 mg/m³ Ceiling: 2 mg/m³</td>
</tr>
</tbody>
</table>

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment
Eye/Face Protection: Wear splash goggles. For severe use-conditions, wear a face shield over the goggles.
Skin and Body Protection: Wear rubber or other chemical-resistant gloves. Use of impervious apron, boots and other protective equipment should be considered in order to prevent or minimize contact with this product.

Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance/Physical State:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Red</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH:</td>
<td>&gt; 13.5</td>
</tr>
<tr>
<td>Melting Point / Freezing Point:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Boiling Point / Boiling Range:</td>
<td>124 °C / 255 °F</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>&gt; 124 °C / &gt; 255 °F ASTM D56</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>&lt; 1 (BuAc = 1)</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No information available.</td>
</tr>
<tr>
<td>Upper Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Lower Flammability Limit:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>1.38</td>
</tr>
<tr>
<td>Solubility(ies):</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Autoignition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>No information available.</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>No information available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Contact with aluminum or other reactive metals may release hydrogen gas. Heat is generated when mixed with water.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Incompatible Materials: Reactive metals such as aluminum, zinc and tin. Contact with metals may evolve flammable hydrogen gas.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO2) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
- Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
- Skin Contact: Pain, redness, blistering and possible chemical burn.
- Inhalation: Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.
- Ingestion: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.


Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATE\text{mix} (dermal): 3858 mg/kg

Component Acute Toxicity Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>water 7732-18-5</td>
<td>&gt; 90 mL/kg (Rat)</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>sodium hydroxide 1310-73-2</td>
<td>Not Available</td>
<td>= 1350 mg/kg (Rabbit)</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/Aquatic Plants</th>
<th>Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hydroxide 1310-73-2</td>
<td>Not Available</td>
<td>45.4: 96 h Oncorhynchus mykiss mg/L LC50 static</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.
US EPA Waste Number: D002

14. TRANSPORT INFORMATION

DOT:
15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chronic Health Hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire Hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sudden release of pressure hazard:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactive Hazard:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

California Proposition 65
This product does not contain any Proposition 65 chemicals

16. OTHER INFORMATION

NFPA
Health Hazards: 4  Flammability: 0  Instability: 1  Special: N/A

HMIS
Health Hazards: 4  Flammability: 0  Physical Hazards: 1

Revision Date: 30-Oct-2014
Reasons for Revision: No information available.

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

End of Safety Data Sheet
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier
Product Name: SaniGuard
Product Code: 55001, 55002, 52480, 53080

1.2. Intended Use of the Product
Use of the Substance/Mixture: Surface Sanitizer

1.3. Name, Address, and Telephone of the Responsible Party
Company
DEM Technology, LLC
755 Albany St
Dayton, OH 45417
T 937-223-1317
www.saniguard.com

1.4. Emergency Telephone Number
Emergency Number : 937-223-1317 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture
Classification (GHS-US)
Simple Asphy
Flam. Aerosol 1  H222
Eye Irrit. 2A  H319
Carc. 2  H351
STOT SE 1  H370
Aquatic Acute 2  H401
Aquatic Chronic 3  H412

2.2. Label Elements
GHS-US Labeling
Hazard Pictograms (GHS-US) :

Signal Word (GHS-US) :
Danger

Hazard Statements (GHS-US)
: H222 - Extremely flammable aerosol
H319 - Causes serious eye irritation
H370 - Causes damage to organs if ingested
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, sparks, open flames, hot surfaces. - No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Pressurized container: Do not pierce or burn, even after use.
P260 - Do not breathe vapors, mist, spray, gas.
P270 - Do not eat, drink or smoke when using this product.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see section 4).
P337+P313 - If eye irritation persists: Get medical advice/attention.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C
P501 - Dispose of contents/container to local, regional, national, and international regulations
2.3. Other Hazards

Other Hazards Not Contributing to the Classification:
H401 - Toxic to aquatic life - Hazardous to the aquatic environment - Acute Hazard Category 2
Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death. Do not puncture or incinerate container.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable
Full text of H-phrases: see section 16

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary propellant</td>
<td>Proprietary</td>
<td></td>
<td>Simple Asphy</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Flam. Gas 1, H220</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Liquefied gas, H280</td>
</tr>
<tr>
<td>Proprietary alcohol</td>
<td>Proprietary</td>
<td></td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2, H401</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Oral), H301</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Dermal), H311</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 3 (Inhalation: vapour), H331</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 1, H370</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>(CAS No) 67-63-0</td>
<td></td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2A, H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H336</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>(CAS No) 68424-85-1</td>
<td></td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Corr. 1B, H314</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Dam. 1, H318</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 1, H400</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 1, H410</td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret is required.
Full text of H-phrases: see section 16
SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention. If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Thaw frostened parts with lukewarm water. Do not rub affected area. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Obtain medical attention if irritation develops or persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.

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

Symptoms/Injuries: Suspected of causing cancer. Causes damage to organs. Eye irritation. May cause frostbite on contact with liquefied gas.

Symptoms/Injuries After Inhalation: In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, numbness of the extremeties, unconsciousness and death. Respiratory tract irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation. May cause frostbite on contact with the liquefied gas.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation. Contact with the liquefied gas causes frostbite.

Symptoms/Injuries After Ingestion: This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death. Ingestion is likely to be harmful or have adverse effects.

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

If exposed or concerned, get medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Water spray, carbon dioxide, foam, dry chemical. Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Extremely flammable aerosol.

Explosion Hazard: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Hazardous reactions will not occur under normal conditions.

5.3. Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers. DO NOT fight fire when fire reaches explosives. Evacuate area.

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

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Isolate from fire, if possible, without unnecessary risk. Remove ignition sources. Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do NOT breathe (vapor, mist, spray, gas). Handle in accordance with good industrial hygiene and safety practice. Do not allow product to spread into the environment. Avoid all contact with skin, eyes, or clothing.

6.1.1. For Non-emergency Personnel

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


6.1.2. For Emergency Responders

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

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.
6.3. Methods and Material for Containment and Cleaning Up
For Containment: As an immediate precautionary measure, isolate spill or leak area in all directions. Stop leak without risks if possible.
Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Isolate area until gas has dispersed.
6.4. Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Additional Hazards When Processed: Pressurized container: Do not pierce or burn, even after use. Do not pressurize, cut, or weld containers. When heated to decomposition, emits toxic fumes. Corrosive vapors are released.
Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not spray on an open flame or other ignition source. Keep away from heat/sparks/open flames/hot surfaces.
-- No smoking. Do not breathe vapors, mist, spray, gas. Handle in accordance with good industrial hygiene and safety procedures. Wear a self-contained breathing apparatus and appropriate personal protective equipment (PPE).
Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Wash hands and forearms thoroughly after handling. Do no eat, drink or smoke when using this product.

7.2. Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Prevent build-up of electrostatic charges (e.g., by grounding). Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Do not expose to temperatures exceeding 50°C/ 122°F. Keep in fireproof place. Protect from light. Keep/Store away from direct sunlight, ignition sources, extremely high or low temperatures, incompatible materials.
Incompatible Materials: Heat sources.
Storage Temperature: ≤ 50 °C (122 °F)
Special Rules on Packaging: Keep only in the original container.

7.3. Specific End Use(s)
Surface Sanitizer.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

<table>
<thead>
<tr>
<th>Proprietary Alcohol</th>
<th>USA ACGIH</th>
<th>NIOSH REL (TWA) (mg/m³)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (ppm)</th>
<th>USA IDLH</th>
<th>US IDLH (ppm)</th>
<th>USA OSHA</th>
<th>OSHA REL (TWA) (mg/m³)</th>
<th>USA OSHA</th>
<th>OSHA REL (TWA) (ppm)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (ppm)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (ppm)</th>
<th>USA IDLH</th>
<th>US IDLH (ppm)</th>
<th>USA OSHA</th>
<th>OSHA REL (TWA) (mg/m³)</th>
<th>USA OSHA</th>
<th>OSHA REL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Alcohol</td>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>1000 ppm</td>
<td></td>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>1900 mg/m³</td>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>1000 ppm</td>
<td>USA IDLH</td>
<td>US IDLH (ppm)</td>
<td>3300 ppm (10% LEL)</td>
<td>USA OSHA</td>
<td>OSHA REL (TWA) (ppm)</td>
<td>1900 mg/m³</td>
<td>USA OSHA</td>
<td>OSHA REL (TWA) (ppm)</td>
<td>1000 ppm</td>
<td>USA ACGIH</td>
</tr>
</tbody>
</table>

Isopropyl alcohol (67-63-0)

<table>
<thead>
<tr>
<th>Proprietary Alcohol</th>
<th>USA ACGIH</th>
<th>NIOSH REL (TWA) (mg/m³)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (TWA) (ppm)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (STEL) (mg/m³)</th>
<th>USA NIOSH</th>
<th>NIOSH REL (STEL) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl alcohol</td>
<td>USA ACGIH</td>
<td>ACGIH TWA (ppm)</td>
<td>200 ppm</td>
<td>USA ACGIH</td>
<td>ACGIH STEL (ppm)</td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>980 mg/m³</td>
<td>USA NIOSH</td>
<td>NIOSH REL (TWA) (ppm)</td>
<td>400 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>USA NIOSH</td>
<td>NIOSH REL (STEL) (mg/m³)</td>
<td>1225 mg/m³</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2. Exposure Controls

Appropriate Engineering Controls: Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use explosion-proof equipment. Ensure adequate ventilation, especially in confined areas.


Materials for Protective Clothing: Chemically resistant materials and fabrics.
Hand Protection: Wear chemically resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Respiratory Protection: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State: Liquid
Appearance: Clear, aerosol.
Odor: Unscented.
Odor Threshold: No data available
pH: 8.41 @15.2°C (59.36°F)
Relative Evaporation Rate (butylacetate=1): No data available
Melting Point: No data available
9.2. **Other Information**  No additional information available

### SECTION 10: STABILITY AND REACTIVITY

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

10.2 **Chemical Stability:** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.3 **Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

10.4 **Conditions to Avoid:** Direct sunlight. Extremely high or low temperatures. Heat. Sparks. Open flame. Overheating. Incompatible materials.

10.5 **Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers. Amines.


### SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information On Toxicological Effects**

**Acute Toxicity:** Not classified

<table>
<thead>
<tr>
<th>Proprietary Alcohol #1</th>
<th>Proprietary Alcohol #2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LC50 Inhalation Rat (mg/l)</strong></td>
<td><strong>ATE (Dust/Mist)</strong></td>
</tr>
<tr>
<td>124.7 mg/l/4h</td>
<td>124.700 mg/l/4h</td>
</tr>
<tr>
<td><strong>ATE (Oral)</strong></td>
<td><strong>ATE (Dermal)</strong></td>
</tr>
<tr>
<td><strong>ATE (Vapors)</strong></td>
<td><strong>ATE (Vapors)</strong></td>
</tr>
<tr>
<td><strong>Isopropyl alcohol (67-63-0)</strong></td>
<td><strong>Isopropyl alcohol (67-63-0)</strong></td>
</tr>
<tr>
<td><strong>LD50 Oral Rat</strong></td>
<td><strong>LD50 Oral Rat</strong></td>
</tr>
<tr>
<td>4396 mg/kg</td>
<td>12800 mg/kg</td>
</tr>
<tr>
<td><strong>LC50 Inhalation Rat (ppm)</strong></td>
<td><strong>LC50 Inhalation Rat (ppm)</strong></td>
</tr>
<tr>
<td>16000 ppm (Exposure time: 8 h)</td>
<td>16000 ppm (Exposure time: 8 h)</td>
</tr>
</tbody>
</table>
SaniGuard
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Titanium dioxide (13463-67-7)</th>
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</tr>
</thead>
<tbody>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt; 10000 mg/kg</td>
</tr>
<tr>
<td>Zinc oxide (1314-13-2)</td>
<td></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>ATE (Dust/Mist)</td>
<td>5.800 mg/l/4h</td>
</tr>
</tbody>
</table>

**Skin Corrosion/Irritation:** Not classified
**pH:** 8.41 @15.2°C (59.36°F)

**Serious Eye Damage/Irritation:** Causes serious eye irritation.
**pH:** 8.41 @15.2°C (59.36°F)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer.

<table>
<thead>
<tr>
<th>Isopropyl alcohol (67-63-0)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
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<thead>
<tr>
<th>Titanium dioxide (13463-67-7)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>IARC group</td>
<td>2B</td>
</tr>
</tbody>
</table>

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Causes damage to organs.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** In elevated concentrations may cause asphyxiation, central nervous system effects, and increased breathing rate. Symptoms of asphyxiation include headache, dizziness, rapid breathing, increased pulse, mood changes, tremors, cyanosis, muscular weakness, narcosis, nummness of the extremities, unconsciousness and death. Respiratory tract irritation.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation. May cause frostbite on contact with the liquefied gas.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Contact with the liquefied gas causes frostbite.

**Symptoms/Injuries After Ingestion:** This material contains methanol, which, when ingested, may cause acidosis and ocular toxicity ranging from diminished visual capacity to complete blindness, and possible death. Ingestion is likely to be harmful or have adverse effects.

**SECTION 12: ECOLOGICAL INFORMATION**

12.1. **Toxicity**

**Ecology - General:** Toxic to aquatic life with long lasting effects.

**Proprietary alcohol**

| LC50 Fish 1 | 9.468 (9.468 - 12.624) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) converted from ml/l |
| EC50 Daphnia 1 | 9268 (9268 - 14221) mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC 50 Fish 2 | 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Daphnia 2 | 2 mg/l (Exposure time: 48 h - Species: Daphnia magna [static]) |
| LC50 Fish 1 | 28200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC 50 Fish 2 | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |

**Isopropyl alcohol (67-63-0)**

| LC50 Fish 1 | 9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 13299 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 Other Aquatic Organisms 1 | 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus) |
| LC 50 Fish 2 | 11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| EC50 Other Aquatic Organisms 2 | 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus) |
SaniGuard
Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide (1314-13-2)</td>
<td></td>
</tr>
<tr>
<td>LC50 Fish 1</td>
<td>780 µg/l Pimephales promelas</td>
</tr>
<tr>
<td>NOEC chronic fish</td>
<td>0.026 mg/l Jordanella floridae</td>
</tr>
</tbody>
</table>

### 12.2 Persistence and Degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SaniGuard</td>
<td></td>
</tr>
<tr>
<td>Persistence and Degradability</td>
<td>Not established. May cause long-term adverse effects in the environment.</td>
</tr>
<tr>
<td>Ethyl alcohol (64-17-5)</td>
<td></td>
</tr>
<tr>
<td>Persistence and Degradability</td>
<td>Not established.</td>
</tr>
</tbody>
</table>

### 12.3 Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SaniGuard</td>
<td></td>
</tr>
<tr>
<td>Bioaccumulative Potential</td>
<td>Not established.</td>
</tr>
<tr>
<td>Proprietary alcohol</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.32</td>
</tr>
<tr>
<td>Bioaccumulative Potential</td>
<td>Not established.</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>&lt; 10</td>
</tr>
<tr>
<td>Log Pow</td>
<td>-0.77</td>
</tr>
<tr>
<td>Isopropyl alcohol (67-63-0)</td>
<td></td>
</tr>
<tr>
<td>Log Pow</td>
<td>0.05 (at 25 °C)</td>
</tr>
</tbody>
</table>

### 12.4 Mobility in Soil

No additional information available

### 12.5 Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Dispose of waste material in accordance with all local, regional, national, and international regulations.

Additional Information: Flammable vapors may accumulate in the container. Container under pressure. Do not drill or burn even after use.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 In Accordance with DOT

Proper Shipping Name: AEROSOLS flammable, (each not exceeding 1 L capacity)

Hazard Class: 2.1

Identification Number: UN1950

Label Codes: 2.1

ERG Number: 126

#### 14.2 In Accordance with IMDG

Proper Shipping Name: AEROSOLS

Hazard Class: 2.1

Identification Number: UN1950

Label Codes: 2.1

EmS-No. (Fire): F-D

EmS-No. (Spillage): S-U

#### 14.3 In Accordance with IATA

Proper Shipping Name: AEROSOLS, FLAMMABLE

Identification Number: UN1950

Hazard Class: 2

Label Codes: 2.1

ERG Code (IATA): 10L
SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

SaniGuard

SARA Section 311/312 Hazard Classes
Immediate (acute) health hazard
Delayed (chronic) health hazard
Fire hazard
Sudden release of pressure hazard

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

Proprietary Alcohol #1
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 311 (Specific toxic chemical listings)

SARA Section 311/312 Hazard Classes
Delayed (chronic) health hazard
Immediate (acute) health hazard
Fire hazard

SARA Section 313 - Emission Reporting
1.0%

Isopropyl alcohol (67-63-0)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag
T - T indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting
1.0% (only if manufactured by the strong acid process, no supplier notification)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Titanium dioxide (13463-67-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Zinc oxide (1314-13-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Proprietary Alcohol

U.S. - California - Proposition 65 - Carcinogens List
WARNING: This product contains chemicals known to the State of California to cause cancer.

U.S. - California - Proposition 65 - Developmental Toxicity
WARNING: This product contains chemicals known to the State of California to cause birth defects.

U.S. - California - Proposition 65 - Developmental Toxicity
WARNING: This product contains chemicals known to the State of California to cause birth defects.

Titanium dioxide (13463-67-7)

U.S. - California - Proposition 65 - Carcinogens List
WARNING: This product contains chemicals known to the State of California to cause cancer.
### SaniGuard

**Safety Data Sheet**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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

#### Proprietary Alcohol
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Isopropyl alcohol (67-63-0)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Titanium dioxide (13463-67-7)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) List

#### Zinc oxide (1314-13-2)
- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right to Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
- U.S. - Pennsylvania - RTK (Right to Know) List

---

### SECTION 16: OTHER INFORMATION

**Revision date**
- 01/30/2014

**Other Information**
- This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 3 (Dermal)</th>
<th>Acute toxicity (dermal) Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 3 (Inhalation:vapour)</td>
<td>Acute toxicity (inhalation:vapour) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 3 (Oral)</td>
<td>Acute toxicity (oral) Category 3</td>
</tr>
<tr>
<td>Acute Tox. 4 (Inhalation:dust,mist)</td>
<td>Acute toxicity (inhalation:dust,mist) Category 4</td>
</tr>
<tr>
<td>Acute Tox. 4 (Oral)</td>
<td>Acute toxicity (oral) Category 4</td>
</tr>
<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 3</td>
<td>Hazardous to the aquatic environment - Chronic Hazard Category 3</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2A</td>
<td>Serious eye damage/eye irritation Category 2A</td>
</tr>
<tr>
<td>Flam. Aerosol 1</td>
<td>Flammable aerosol Category 1</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------------</td>
</tr>
<tr>
<td>Flam. Gas 1</td>
<td>Flammable gases Category 1</td>
</tr>
<tr>
<td>Flam. Liq. 2</td>
<td>Flammable liquids Category 2</td>
</tr>
<tr>
<td>Liquefied gas</td>
<td>Gases under pressure Liquefied gas</td>
</tr>
<tr>
<td>Simple Asphy</td>
<td>Simple Asphyxiant</td>
</tr>
<tr>
<td>STOT SE 1</td>
<td>Specific target organ toxicity (single exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H222</td>
<td>Extremely flammable aerosol</td>
</tr>
<tr>
<td>H225</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>H232</td>
<td>May form combustible dust concentrations in air</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H301</td>
<td>Toxic if swallowed</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H319</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>H322</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H336</td>
<td>May cause drowsiness or dizziness</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
<tr>
<td>H401</td>
<td>Toxic to aquatic life</td>
</tr>
</tbody>
</table>

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

SDS US (GHS HazCom) - US
SAFETY DATA SHEET

HMIS: Health-1 Flammability-0 Reactivity-0 Pers. Protection-N
NFPA: Health-1 Flammability-0 Reactivity-0 Special Hazard-N
WHMIS: Not regulated

Section 1: Product and Company Identification

Product: Screen with non-para Block, All Fragrances
Synonyms: 
NILODOR, INC.
10966 INDUSTRIAL PARKWAY NW
BOLIVAR, OHIO 44612, USA
Non-Emergency: US 800-443-4321
International 010-330-874-1017

24 hr Emergency Spill Information: Chem-Tel, Inc.

Section 2: Hazards Identification

EMERGENCY OVERVIEW
Appearance/Odor: Blue or pink cake-like solid in white plastic cage
Not Classified as hazardous by the criteria of NOHSC.

WARNING
Flammability: Not classified as flammable
Health Hazards Listed: Not applicable
Ecological Hazards Listed: None known
Potential Health Effects: See section 11 for more information.

Risk Phrases: R22 - Harmful if swallowed
Safety Phrases: S2 - Keep out of the reach of children
S37 - Wear suitable gloves

Hazard Phrases: H303 - May be harmful if swallowed

Precautionary Phrases: P232 - Protect from moisture.
P233 - Keep container tightly closed.
P280 - Wash thoroughly after handling.
Likely Routes of Exposure: Not applicable

Eye: Direct exposure can irritate
Skin: Not applicable
Ingestion: Not expected to be a problem
Inhalation: Not likely to be a problem

Medical Conditions Aggravated By Exposure:
Allergies to fragrances
Target Organs: None known

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Potential Environmental Effects: (See section 12 for more information.)
None known

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>% by Weight</th>
<th>WHMIS</th>
<th>Controlled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Dodecylbenzene Sulfonate</td>
<td>25155-30-0</td>
<td>2 - 8</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Sodium Sulfate</td>
<td>7757-82-6</td>
<td>15 - 20</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Polyethylene Glycol</td>
<td>25322-68-3</td>
<td>2 - 8</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Bacteria Culture</td>
<td>None</td>
<td>0.1 - 1.0</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Sodium Borate Pentahydrate</td>
<td>11130-12-4</td>
<td>40 - 50</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

Eye Contact: Flush eyes with copious amounts of clean water, holding lids open. If irritation persists, consult a physician.
Skin Contact: Wash with soap and water.
Inhalation: Remove to fresh air.
Ingestion: Give water or milk to drink if conscious.

Note to Physicians:

Section 5. Fire Fighting Measures

Suitable Extinguishing Media: As for surrounding fire.
Unsuitable Extinguishing Media: None known
Products of Combustion: Oxides of carbon, sulfur, boron
Protection of Firefighters: As for surrounding fire

Section 6. Accidental Release Measures

Personal Precautions: Keep cake away from skin and eyes
Environmental Precautions: Keep out of surface waters
Methods for Containment: If dry, not applicable. If wet, contain affected water with sand, clay or other suitable material.
Methods for Clean-Up: Gather up scattered units.
Other Information:

Section 7. Handling and Storage

HANDLING
Do not open inner pouch until ready to install. Keep cake away from skin and eyes.
STORAGE
Original container at ambient temperatures (5-50°C, 40 - 120°F)

Section 8. Exposure Controls/Personal Protection

EXPOSURE GUIDELINES
COMPONENT: TWA: LD-50
Sodium Dodecylbenzene Sulfonate None established 1260 mg/kg
Sodium Sulfate None established 5989 mg/kg
Polyethylene Glycol None established 30 000 mg/kg
Bacteria Culture None established Not determined
Sodium Borate Pentahydrate TLV 1 mg/cubic m More than 3400 mg/kg

Engineering Controls: Not normally necessary.
Eye/Face Protection: Not normally necessary.
Skin Protection: Not normally necessary. Handle by plastic cage.
Respiratory Protection: Not normally necessary.
General Hygiene Considerations: Keep out of food and beverages.

Section 9. Physical and Chemical Properties

Color: Blue cake in white plastic cage. “Original Fragrance with Enzymes” has pink cake.
Odor: Spicy (Original, Fresh, Original with Enzymes, Spice); Mint (Spring Mint); Cherry; or Apple (Green Apple)
Physical State: Solid
pH: Not applicable
Evaporation Rate: Not determined
Flash Point: Not applicable
Upper Flammability Limit: Not applicable
Vapor Pressure: Not determined
Vapor Density: Not determined
Volatile Organic Compound (VOC),%weight: Information not available. All fragrance.
Solubility (water): Cake is soluble. Cage is insoluble.
Percent Volatile: Information not available. All fragrance.

Section 10. Stability and Reactivity
Stability: Stable
Conditions to Avoid: None known
Incompatible Materials: None known
Hazardous Decomposition Products: None known
Possibility of Hazardous Reactions: Extremely improbable

Section 11. Toxicology Information

ACCUTEE EFFECTS
Oral LD50: Not determined for mixture. Weighted average more than 3500 mg/lg.
Dermal LD50: Not determined for mixture. Weighted average more than 1800 mg/lg.
Inhalation: Not determined. Very low volatility. Weighted average as dust more than 2.5 mg/Liter.
Eye Irritation: Direct contact with particles of cake can irritate.
Skin Irritation: Direct prolonged or repeated contact with cake can irritate.

Sensitization: None known

**CHRONIC EFFECTS**

Carcinogenicity: None known
Mutagenicity: None known
Reproductive Effects: None known
Developmental Effects: None known

Section 12. Ecological Information

Ecotoxicity: None known
Persistence/Degradability: Moderately biodegradable
Bioaccumulation/Accumulation: Not evaluated
Mobility in Environment: Not determined

Section 13. Disposal Considerations

Disposal: Dispose according to Federal, State and Local regulations

Section 14. Transportation Information

US DOT (ground)
Proper Shipping Description: Not a Hazardous Material

CANADA TDG (ground)
Proper Shipping Description: Not a Dangerous Good

ICAO (air)
Proper Shipping Description: Not a Dangerous Good

IMDG (water)
Proper Shipping Description: Not a Dangerous Good

Section 15. Regulatory Information

Global Inventories
TSCA: United States Included
DSL: Canada Included
ECL: Korea Not-Known
PICCS: Philippines Not-Known
ENCS: Japan Not-Known
AICS: Australia Included
IECS: China Not-Known
EINECS: European Union Included

SARA 313 Information: No SARA 313 substances present

California Safe Drinking Water and Toxic Enforcement Act pf 1986 : (Proposition 65)
No Proposition 65 substances present

WHMIS: Canadian Workplace Hazardous Material Information System
Not regulated

Section 16. Other Information

Legends:
NFPA, HMIS:
0=Minimal Hazard, 1=Slight Hazard, 2=Moderate Hazard, 3=Severe Hazard, 4=Extreme Hazard

Prepared By: Technical Dept.

While we believe that the data contained herein are factual and the opinions expressed are those of qualified experts regarding the results of tests conducted, the data are not to be taken as warranty or representation for which we assume legal responsibility. The information is offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with federal, state and local laws.
**Safety Data Sheet**

**Section 1: Identification**

Name: Crystal Clear  
Generic Name: RTU Glass & Hard Surface Cleaner  
Date Issued: 5-1-15  
Product Code: 0118  
Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308  
Emergency Telephone: 800-255-3924  
Product Information: 330-253-3535

**Section 2: Hazard(s) Identification**

**Potential Health Effects**

Signal Word = Warning  
Hazard Category:  
Acute Oral Toxicity = 4 - Harmful if swallowed  
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:  
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.  
Response = If swallowed, contact a physician immediately and follow advice from medical professional If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.  
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:  
Eye: Similar to effects from acute exposure  
Skin: Similar to effects from acute exposure  
Inhalation: Similar to acute exposure  
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

**Section 3: Composition Information on Ingredients**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropanol</td>
<td>5-10</td>
<td>NA</td>
<td></td>
<td>980</td>
<td>1225</td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

**Section 4: First Aid Measures**

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.  
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.  
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.  
Ingestion: Obtain medical attention.

**Section 5: Fire Fighting Measures**

Flash Point: N/A  
Auto ignition Temperature: Not Determined  
Flammability Limits: N/A  
Extinguishing Media: Select extinguisher suitable for surrounding fire  
Fire Fighting Methods: Use methods suitable for surrounding fire  
Unusual Fire Hazards: N/A
Section 6: Accidental Release Measures
Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.

Section 7: Handling and Storage
Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropanol</td>
<td>980</td>
<td>1225</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Form: Liquid</th>
<th>Odor: Characteristic</th>
<th>Solubility in H2O: 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Blue</td>
<td>Specific Gravity: 0.96</td>
<td>pH: 10</td>
</tr>
</tbody>
</table>

Boiling Point: 209 °F Initial

Viscosity: No Data

Vapor Pressure: 25 mm Hg @68°F

Vapor Density: >1

Volatile: 100%

Evaporation Rate: <1

Section 10: Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not Occur

Hazardous Decomposition Products: N/A

Conditions to Avoid: N/A

Section 11: Toxicological Information

Special Hazard Information on Components: No known applicable information

Listed on NTP Report? No

Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

Exotoxicity: N/D

Bio accumulative Potential: N/D

Persistence and Degradability: Similar to water

Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

Section 15: Regulatory Information

Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: Isopropanol, which are in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: Yes (Isopropanol)

CERCLA Hazardous Substances: N/A

Section 311/312 Hazard Class: Yes (Isopropanol)

Section 313 Toxic Chemicals: Yes (Isopropanol)

Section 16: Other Information

Prepared by: J. Chantz Horman on 5/1/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller’s control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
**Safety Data Sheet**

**Section 1: Identification**

<table>
<thead>
<tr>
<th>Name: Natures Plus</th>
<th>Date Issued: 4-16-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Generic Name: N/A</td>
<td>Product Code: 0133</td>
</tr>
</tbody>
</table>

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308


**Section 2: Hazard(s) Identification**

**Signal Word = Warning**

**Label Elements:**

**Hazard Category:**

- Acute Oral Toxicity = 4 - Harmful if swallowed
- Eye Damage/Irritation = 2B - Causes eye irritation

**Precautionary Statement:**

**Storage:** Store containers in an upright position. Ensure container lids are in place and secure when not in use.

**Disposal:** Review all federal, state and local laws regarding disposal of this product.

**Prolonged/Repeated Exposure Effects:**

- Eye: Similar to effects from acute exposure
- Skin: Similar to effects from acute exposure
- Inhalation: Similar to acute exposure
- Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

**Section 3: Composition Information on Ingredients**

This is an aqueous solution containing a bacterial complex, surfactants and colorants. It is generally considered as non-hazardous.

**All components are considered non-hazardous and proprietary in their quantities**

**Section 4: First Aid Measures**

- **Eye:** Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
- **Skin:** Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
- **Inhalation:** If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
- **Ingestion:** Obtain medical attention.

**Section 5: Fire Fighting Measures**

- **Flash Point:** N/A
- **Auto ignition Temperature:** Not Determined
- **Flammability Limits:** No Data
- **Extinguishing Media:** Select extinguisher suitable for surrounding fire
- **Fire Fighting Methods:** Use methods suitable for surrounding fire
- **Unusual Fire Hazards:** N/A

**Section 6: Accidental Release Measures**

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
**Section 7: Handling and Storage**

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

**Section 8: Exposure Controls**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

**Section 9: Physical and Chemical Properties**

- **Color:** Milky, White
- **Odor:** Pleasant
- **Solubility in H2O:** 99.5%
- **Boiling Point:** 212 °F Initial
- **Viscosity:** No Data
- **Vapor Pressure:** 20 mm Hg @ 68°F
- **Vapor Density:** >1
- **Vapor Pressure:** 20 mm Hg @ 68°F
- **Vapor Density:** >1
- **Evaporation Rate:** <1

**Section 10: Stability and Reactivity**

- **Chemical Stability:** Stable
- **Materials to Avoid:** N/A
- **Hazardous Polymerization:** Will not Occur
- **Hazardous Decomposition Products:** N/A
- **Conditions to Avoid:** N/A

**Section 11: Toxicological Information**

- **Special Hazard Information on Components:** No known applicable information
- **Listed on NTP Report?** No
- **Listed on IARC (Suspected Carcinogen)?** No

**Section 12: Ecological Information**

- **Exotoxicity:** N/D
- **Bio accumulative Potential:** N/D
- **Persistence and Degradability:** Similar to water
- **Mobility in Soil?** N/D

**Section 13: Disposal Considerations**

Review all federal, state and local laws regarding disposal of this product.

**Section 14: Transportation Information**

- **DOT Shipment Information (49 CRF 172.101):** Non Dot Regulated

**Section 15: Regulatory Information**

- **Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.**
- **TSCA Status:** No components listed on this SDS are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.
- **EPA SARA Title III Chemical Listings:** No
- **CERCLA Hazardous Substances:** No
- **Section 311/312 Hazard Class:** No
- **Section 313 Toxic Chemicals:** No

**Section 16: Other Information**

Prepared by: J. Chantz Horman on 4/16/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet
Section 1: Identification

Name: Big Shot
Generic Name: Hard Surface Cleaner
Date Issued: 10-10-14
Product Code: 0155

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Warning
Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.
Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

% by Vol
RQ#  OSHA  TWA  STEL
5-10  No Data  983ppm 1230ppm
<5 No Data  20ppm 240ppm
<5 No Data No Data No Data
<5 No Data No Data No Data

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities.**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-63-0</td>
<td>Isopropanol</td>
<td>5-10</td>
<td>No Data</td>
<td>No Data</td>
<td>983ppm</td>
<td>1230ppm</td>
</tr>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>20ppm</td>
<td>240ppm</td>
</tr>
<tr>
<td>64-02-8</td>
<td>Tetrasodium EDTA</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium Xylenesulfonate</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A
**Section 6: Accidental Release Measures**

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.

**Section 7: Handling and Storage**

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

**Section 8: Exposure Controls**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
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<td>20ppm</td>
<td>240ppm</td>
<td>No Data</td>
</tr>
<tr>
<td>64-02-8</td>
<td>Tetrasodium EDTA</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium Xylenesulfonate</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

**Section 9: Physical and Chemical Properties**

- Physical Form: Liquid
- Odor: Characteristic
- Solubility in H20: 100%
- Color: Purple
- Specific Gravity: 1.01
- pH: 9
- Boiling Point: 212 °F Initial
- Viscosity: No Data
- Vapor Pressure: 20 mm Hg @68F
- Volatility: 90+%
- Evaporation Rate: <1

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Conditions to Avoid: N/A
- Materials to Avoid: N/A
- Hazardous Decomposition Products: N/A

**Section 10: Stability and Reactivity**

- Exothermic: N/D
- Endothermic: N/D
- Bio accumulative Potential: N/D
- Persistence and Degradability: Similar to water
- Mobility in Soil? N/D

**Section 11: Toxicological Information**

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

**Section 12: Ecological Information**

- Exotoxicity: N/D
- Bio accumulative Potential: N/D
- Persistence and Degradability: Similar to water
- Mobility in Soil? N/D

**Section 13: Disposal Considerations**

- Review all federal, state and local laws regarding disposal of this product.

**Section 14: Transportation Information**

- DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

**Section 15: Regulatory Information**

- Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.
- TSCA Status: Isopropanol and Sodium Xylenesulfonate, which are components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.
- EPA SARA Title III Chemical Listings: Yes (Isopropanol)
- CERCLA Hazardous Substances: No
- Section 311/312 Hazard Class: Yes (Isopropanol, 2-Butoxyethanol, Tetrasodium EDTA, Sodium Xylenesulfonate)
- Section 313 Toxic Chemicals: Yes (Isopropanol)

**Section 16: Other Information**

Prepared by: J. Chantz Horman on 10/10/14. Revised 5-21-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Hyper Strip
Generic Name: Stripper
Date Issued: 5-4-15
Product Code: 0166

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Danger
Label Elements:

Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>35-45</td>
<td>No Data</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>141-43-5</td>
<td>Monoethanolamine</td>
<td>10-15</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>&lt;5 - 100</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
Section 7: Handling and Storage
Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>141-43-5</td>
<td>Monoethanolamine</td>
<td>3ppm</td>
<td>6ppm</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Form: Liquid</th>
<th>Odor: Characteristic</th>
<th>Solubility in H2O: 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Yellow</td>
<td>Specific Gravity: 1.00</td>
<td>pH: 13</td>
</tr>
<tr>
<td>Boiling Point: 210 °F Initial</td>
<td>Viscosity: No Data</td>
<td>Vapor Density: &gt;1</td>
</tr>
<tr>
<td>Vapor Pressure: 20 mm Hg @68F</td>
<td>Volatility: 99+%</td>
<td>Evaporation Rate: &lt;1</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Conditions to Avoid: N/A
- Hazardous Decomposition Products: N/A

Section 11: Toxicological Information

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

- Exotoxicity: N/D
- Persistence and Degradability: Similar to water
- Bio accumulative Potential: N/D
- Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

UN 1760, Corrosive Liquid, N.O.S., 8, PG II, (Contains Monoethanolamine, Potassium Hydroxide)

Section 15: Regulatory Information

Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: Monoethanolamine and Potassium Hydroxide, which are components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: No
CERCLA Hazardous Substances: No
Section 311/312 Hazard Class: Yes (*2-Butoxyethanol, Potassium Hydroxide, Monoethanolamine)
Section 313 Toxic Chemicals: No

Section 16: Other Information

5/26/2015. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Melt Down
Generic Name: Stripper

Date Issued: 10-30-14
Product Code: 0168

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Danger

Label Elements:

Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>35-45</td>
<td>No Data</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>141-43-5</td>
<td>Monoethanolamine</td>
<td>10-15</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>&lt;5</td>
<td>1000</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
Section 7: Handling and Storage

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

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<td>Potassium Hydroxide</td>
<td></td>
<td>2ppm</td>
<td>2ppm</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

- Physical Form: Liquid
- Odor: Characteristic
- Solubility in H2O: 100%
- Color: Yellow
- Specific Gravity: 1.00
- pH: 13
- Boiling Point: 210 °F Initial
- Viscosity: No Data
- Vapor Pressure: 20 mm Hg @68°F
- Volatility: 99+% Volatility: >1
- Evaporation Rate: <1

Section 10: Stability and Reactivity

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Conditions to Avoid: N/A
- Materials to Avoid: N/A
- Hazardous Decomposition Products: N/A

Section 11: Toxicological Information

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

- Exotoxicity: N/D
- Bio accumulative Potential: N/D
- Persistence and Degradability: Similar to water
- Mobility in Soil? N/D

Section 13: Disposal Considerations

- Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

- UN 1760, Corrosive Liquid, N.O.S., 8, PG II, (Contains Monoethanolamine, Potassium Hydroxide)

Section 15: Regulatory Information

- Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CRF 1910.1200.

- TSCA Status: Monoethanolamine and Potassium Hydroxide, which are components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

- EPA SARA Title III Chemical Listings: No
- CERCLA Hazardous Substances: No
- Section 311/312 Hazard Class: Yes (*2-Butoxyethanol, Potassium Hydroxide, Monoethanolamine)
- Section 313 Toxic Chemicals: No

Section 16: Other Information

Prepared by: J. Chantz Horman on 10/30/14. Revised 05/26/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Breakaway
Generic Name: Stripper

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924

Date Issued: 5-15-15
Product Code: 0169

Section 2: Hazard(s) Identification

Signal Word = Danger
Label Elements:

Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wash protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>5-10</td>
<td>No Data</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>141-43-5</td>
<td>Monoethanolamine</td>
<td>5-10</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>&lt;5</td>
<td>1000</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td>Disodium Trioxosilicate</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
**Section 7: Handling and Storage**

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

---

**Section 8: Exposure Controls**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>141-43-5</td>
<td>Monoethanolamine</td>
<td>3ppm</td>
<td>6ppm</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td>Disodium Trioxosilicate</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

---

**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form: Liquid</td>
<td>Physical Form: Liquid</td>
</tr>
<tr>
<td>Odor: Character</td>
<td>Odor: Character</td>
</tr>
<tr>
<td>Specific Gravity: 1.04</td>
<td>Specific Gravity: 1.04</td>
</tr>
<tr>
<td>Boiling Point: 214 °F Initial</td>
<td>Boiling Point: 214 °F</td>
</tr>
<tr>
<td>Viscosity: No Data</td>
<td>Viscosity: No Data</td>
</tr>
<tr>
<td>Vapor Pressure: 20 mm Hg @68F</td>
<td>Vapor Pressure: 20 mm</td>
</tr>
<tr>
<td>Volatility: 90+%</td>
<td>Volatility: 90+%</td>
</tr>
<tr>
<td>Evaporation Rate: &lt;1</td>
<td>Evaporation Rate: &lt;1</td>
</tr>
</tbody>
</table>

---

**Section 10: Stability and Reactivity**

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Chemical names:
  - Materials to Avoid: N/A
  - Hazardous Decomposition Products: N/A
- Conditions to Avoid: N/A

---

**Section 11: Toxicological Information**

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

---

**Section 12: Ecological Information**

- Exotoxicity: N/D
- Bio accumulative Potential: N/D
- Persistence and Degradability: Similar to water
- Mobility in Soil: N/D

---

**Section 13: Disposal Considerations**

- Review all federal, state and local laws regarding disposal of this product.

---

**Section 14: Transportation Information**

- UN 1760, Corrosive Liquid, N.O.S., 8, PG II, (Contains Monoethanolamine, Potassium Hydroxide)

---

**Section 15: Regulatory Information**

- Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CRF 1910.1200.
- TSCA Status: No components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.
- EPA SARA Title III Chemical Listings: No
- CERCLA Hazardous Substances: Yes (Potassium Hydroxide)
- Section 311/312 Hazard Class: Yes (*2-Butoxyethanol, Potassium Hydroxide, Monoethanolamine, Disodium Trioxosilicate)
- Section 313 Toxic Chemicals: No

---

**Section 16: Other Information**

Prepared by: J. Chantz Horman on 5/15/15. Revised 5-26-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet
Section 1: Identification

Name: Breaker Breaker  Date Issued: 10-10-14
Generic Name: Cleaner / Degreaser  Product Code: 0179

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308

Section 2: Hazard(s) Identification

Signal Word = Danger
Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes (remove contact lenses, if present and easy to do.) Continue rinsing.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td>5-10</td>
<td>No Data</td>
<td>20ppm</td>
<td>50ppm</td>
<td></td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>&lt;5</td>
<td>No Data</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td>Disodium Trioxosilicate</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A  Fire Fighting Methods: Use methods suitable for surrounding fire.
Auto Ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire  Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
Section 7: Handling and Storage
Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA TWA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-Butoxyethanol</td>
<td></td>
<td>20ppm</td>
<td>50ppm</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium Hydroxide</td>
<td>2ppm</td>
<td>2ppm</td>
<td></td>
</tr>
<tr>
<td>6834-92-0</td>
<td>Disodium Trioxosilicate</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Form: Liquid</th>
<th>Odor: Pleasant</th>
<th>Solubility in H2O: 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Purple</td>
<td>Specific Gravity: 1.08</td>
<td>pH: 13</td>
</tr>
<tr>
<td>Boiling Point: 215 °F Initial</td>
<td>Viscosity: No Data</td>
<td>Vapor Density: &gt;1</td>
</tr>
<tr>
<td>Vapor Pressure: 20 mm Hg @68°F</td>
<td>Volatility: 80+%</td>
<td>Evaporation Rate: &lt;1</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not Occur

Conditions to Avoid: N/A

Section 11: Toxicological Information

Special Hazard Information on Components: No known applicable information

Listed on NTP Report? No

Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

Exotoxicity: N/D

Biocaccumulative Potential: N/D

Persistence and Degradability: Similar to water

Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

UN 1760, Corrosive Liquid, N.O.S., 8, PG II, (Contains Potassium Hydroxide)

Section 15: Regulatory Information


TSCA Status: Potassium Hydroxide and Disodium Trioxosilicate, which are components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: No

CERCLA Hazardous Substances: No

Section 311/312 Hazard Class: Yes (*2-Butoxyethanol, Potassium Hydroxide, Disodium Trioxosilicate)

Section 313 Toxic Chemicals: No

Section 16: Other Information

Prepared by: J. Chantz Horman on 10/10/14. Revised 5-16-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller’s control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Magnificent Seven
Generic Name: Neutral Cleaner
Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308

Date Issued: 10-10-14
Product Code: 0185

Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Warning
Hazard Category:
Acute Toxicity Oral = 4 - Harmful if swallowed
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.

Response = If exposed or concerned: Get medical advice/attention. If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300-72-7</td>
<td>Sodium Xylene Sulfonate</td>
<td>&lt;5</td>
<td>NA</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
Section 7: Handling and Storage

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1300-72-7</td>
<td>Sodium Xylenesulfonate</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties

Physical Form: Liquid

Odor: Pleasant

Solubility in H2O: 100%

Color: Yellow

Specific Gravity: 1.04

pH: 7-8

Boiling Point: 212 °F Initial

Viscosity: No Data

Vapor Density: >1

Vapor Pressure: 20 mm Hg @68°F

Volatile: 90+% Volatility: <1 Evaporation Rate: <1

Section 10: Stability and Reactivity

Chemical Stability: Stable

Hazardous Polymerization: Will not Occur

Conditions to Avoid: N/A

Hazardous Decomposition Products: N/A

Section 11: Toxicological Information

Special Hazard Information on Components: No known applicable information

Listed on NTP Report? No

Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

Exotoxicity: N/D

Bio accumulative Potential: N/D

Persistence and Degradability: Similar to water

Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

Section 15: Regulatory Information

Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: Sodium Xylene Sulfonate, which is a component in this product is subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: No

CERCLA Hazardous Substances: No

Section 311/312 Hazard Class: Yes (Sodium Xylenesulfonate)

Section 313 Toxic Chemicals: No

Section 16: Other Information

Prepared by: J. Chantz Horman on 10/10/14. Revised 5-16-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Lime Delete
Generic Name: Acid Cleaner / Delimer
Date Issued: 1-13-15
Product Code: 0305

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Potential Health Effects

Signal Word = Danger
Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Acute Dermal Toxicity = 4 - Harmful in contact with skin
Skin Corrosion/Irritation = 1A to 1C - Causes severe skin burns and eye damage
Eye Damage/Irritation = 1 - Causes serious eye damage

Precautionary Statement:
Prevention = Do not breathe dusts or mists, wash thoroughly after handling, wear protective gloves, clothing, eye protection, face protection.
Response = If swallowed, rinse mouth, do not induce vomiting. Take off contaminated clothing and rinse skin with water. Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor. If in eyes, rinse cautiously with water for several minutes (remove contact lenses, if present and easy to do). Continue rinsing.

Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-38-2</td>
<td>Phosphoric Acid</td>
<td>20-25</td>
<td>5000</td>
<td>1ppm</td>
<td>3ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire
Fire Fighting Methods: Use methods suitable for surrounding fire.
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
### Section 7: Handling and Storage
Store containers in an upright position. Ensure container lids are in place and secure when not in use.

### Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA TWA</th>
<th>STEL TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>7664-38-2</td>
<td>Phosphoric Acid</td>
<td>1ppm</td>
<td>3ppm</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required with adequate ventilation

### Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Form: Liquid</th>
<th>Odor: Characteristic</th>
<th>Solubility in H20: 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: Green</td>
<td>Specific Gravity: 1.07</td>
<td>pH: 1</td>
</tr>
<tr>
<td>Boiling Point: 212 °F Initial</td>
<td>Viscosity: No Data</td>
<td>Vapor Density: &gt;1</td>
</tr>
<tr>
<td>Vapor Pressure: 26 mm Hg @68F</td>
<td>Volatility: 95+%</td>
<td>Evaporation Rate: &lt;1</td>
</tr>
</tbody>
</table>

### Section 10: Stability and Reactivity

Chemical Stability: Stable

Materials to Avoid: N/A

Hazardous Polymerization: Will not Occur

Hazardous Decomposition Products: N/A

Conditions to Avoid: N/A

### Section 11: Toxicological Information

Special Hazard Information on Components: No known applicable information

Listed on NTP Report? No

Listed on IARC (Suspected Carcinogen)? No

### Section 12: Ecological Information

Exotoxicity: N/D

Persistence and Degradability: Similar to water

Bio accumulative Potential: N/D

Mobility in Soil? N/D

### Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

### Section 14: Transportation Information

UN 1760, Corrosive Liquid, N.O.S., 8, PG II, (Contains Phosphoric Acid)

### Section 15: Regulatory Information


TSCA Status: Phosphoric Acid, which is in this product is subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: Yes

CERCLA Hazardous Substances: Yes (Phosphoric Acid)

Section 311/312 Hazard Class: Yes (Phosphoric Acid)

Section 313 Toxic Chemicals: Yes (Phosphoric Acid)

### Section 16: Other Information

Prepared by: J. Chantz Horman on 1/13/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Lift Off
Generic Name: Carpet & Upholstery Cleaner

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924

Date Issued: 5-21-15
Product Code: 0321

Section 2: Hazard(s) Identification

Signal Word = Warning

Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.
Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>7320-34-5</td>
<td>Tetrapotassium Pyrophosphate</td>
<td>4-6</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>497-19-8</td>
<td>Sodium Carbonate</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire

Fire Fighting Methods: Use methods suitable for surrounding fire.

Unusual Fire Hazards: N/A
**Section 8: Exposure Controls**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
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<td>No Data</td>
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<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

**Section 9: Physical and Chemical Properties**

Physical Form: Liquid

Odor: Characteristic

Solubility in H2O: 100%

Color: Clear Thin, Amber

Specific Gravity: 1.03

pH: 10-11

Boiling Point: 214°F

Viscosity: No Data

Vapor Pressure: 20 mm Hg @ 68°F

Vapor Density: >1

Volatile: 80+% Volatility

Evaporation Rate: <1

**Section 10: Stability and Reactivity**

Chemical Stability: Stable

Materials to Avoid: N/A

Hazardous Polymerization: Will not Occur

Hazardous Decomposition Products: N/A

Conditions to Avoid: N/A

**Section 11: Toxicological Information**

Special Hazard Information on Components: No known applicable information

Listed on NTP Report? No

Listed on IARC (Suspected Carcinogen)? No

**Section 12: Ecological Information**

Exotoxicity: N/D

Bio accumulative Potential: N/D

Persistence and Degradability: Similar to water

Mobility in Soil? N/D

**Section 13: Disposal Considerations**

Review all federal, state and local laws regarding disposal of this product.

**Section 14: Transportation Information**

DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

**Section 15: Regulatory Information**

Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: No components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: Yes

CERCLA Hazardous Substances: No

Section 311/312 Hazard Class: Yes (Tetrapotassium Pyrophosphate, Sodium Carbonate)

Section 313 Toxic Chemicals: No

**Section 16: Other Information**

Prepared by: J. Chantz Horman on 5/21/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller’s control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Infinity  
Generic Name: N/A  
Date Issued: 4-16-15  
Product Code: 0444

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308  
Emergency Telephone: 800-255-3924  
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Warning  
Label Elements:

Hazard Category:  
Acute Oral Toxicity = 4 - Harmful if swallowed  
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:  
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.  
Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.  
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:  
Eye: Similar to effects from acute exposure  
Skin: Similar to effects from acute exposure  
Inhalation: Similar to acute exposure  
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

Section 3: Composition Information on Ingredients

<table>
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<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
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<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-90-0</td>
<td>Diethylene Glycol Monoethyl Ether</td>
<td>&lt;5</td>
<td>NA</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>78-51-3</td>
<td>Tributoxyethyl Phosphate</td>
<td>&lt;5</td>
<td>NA</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.  
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.  
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.  
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: 200.98°F  
Auto ignition Temperature: Not Determined  
Flammability Limits: No Data  
Extinguishing Media: Select extinguisher suitable for surrounding fire  
Unusual Fire Hazards: N/A

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
Section 7: Handling and Storage

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-90-0</td>
<td>Diethylene Glycol Monoethyl Ether</td>
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<td>No Data</td>
<td>No Data</td>
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<td>78-51-3</td>
<td>Tributoxyethyl Phosphate</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required with adequate ventilation

Section 9: Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical Form: Liquid</th>
<th>Odor: Glycol Ether</th>
<th>Solubility in H2O: Miscible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color: White Milky</td>
<td>Specific Gravity: 1.043</td>
<td>pH: 6</td>
</tr>
<tr>
<td>Boiling Point: 212 °F Initial</td>
<td>Viscosity: No Data</td>
<td>Vapor Density: No Data</td>
</tr>
<tr>
<td>Vapor Pressure: No Data</td>
<td>Volatility: 100%</td>
<td>Evaporation Rate: &lt;1</td>
</tr>
</tbody>
</table>

Section 10: Stability and Reactivity

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Materials to Avoid: N/A
- Hazardous Decomposition Products: N/A
- Conditions to Avoid: N/A

Section 11: Toxicological Information

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information

- Exotoxicity: N/D
- Bio accumulative Potential: N/D
- Persistence and Degradability: Similar to water
- Mobility in Soil? N/D

Section 13: Disposal Considerations

Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information

- DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

Section 15: Regulatory Information

- Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.
- TSCA Status: No components listed on this SDS are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.
- EPA SARA Title III Chemical Listings: No
- CERCLA Hazardous Substances: No
- Section 311/312 Hazard Class: No
- Section 313 Toxic Chemicals: No

Section 16: Other Information

Prepared by: J. Chantz Horman on 4/16/15. Revised 5-20-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
**Safety Data Sheet**

**Section 1: Identification**

Name: Seal Kote  
Generic Name: Floor Sealer  
Date Issued: 5-18-15  
Product Code: 0475

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308  
Emergency Telephone: 800-255-3924  
Product Information: 330-253-3535

**Section 2: Hazard(s) Identification**

**Potential Health Effects**

Signal Word = Warning

Hazard Category:
- Acute Oral Toxicity = 4 - Harmful if swallowed
- Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
- Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.
- Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
- Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
- Eye: Similar to effects from acute exposure
- Skin: Similar to effects from acute exposure
- Inhalation: Similar to acute exposure
- Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

**Section 3: Composition Information on Ingredients**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-90-0</td>
<td>Diethylene Glycol Monoethyl Ether</td>
<td>&lt;5</td>
<td>NA</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
<tr>
<td>78-51-3</td>
<td>Tributoxyethyl Phosphate</td>
<td>&lt;5</td>
<td>NA</td>
<td>No Data</td>
<td>No Data</td>
<td></td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

**Section 4: First Aid Measures**

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.

Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.

Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.

Ingestion: Obtain medical attention.

**Section 5: Fire Fighting Measures**

Flash Point: 200.98°F  
Auto ignition Temperature: Not Determined  
Flammability Limits: No Data  
Extinguishing Media: Select extinguisher suitable for surrounding fire

Fire Fighting Methods: Use methods suitable for surrounding fire.

Unusual Fire Hazards: N/A

**Section 6: Accidental Release Measures**

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
**Section 7: Handling and Storage**

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

**Section 8: Exposure Controls**

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-90-0</td>
<td>Diethylene Glocol Monoethyl Ether</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>78-51-3</td>
<td>Tributoxyethyl Phosphate</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

**Section 9: Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Polymer</td>
</tr>
<tr>
<td>Solubility in H2O</td>
<td>Miscible</td>
</tr>
<tr>
<td>Color</td>
<td>White Milky</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.043</td>
</tr>
<tr>
<td>pH</td>
<td>7</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>212 °F Initial</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No Data</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No Data</td>
</tr>
<tr>
<td>Volatility</td>
<td>100%</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

**Section 10: Stability and Reactivity**

- Chemical Stability: Stable
- Hazardous Polymerization: Will not Occur
- Conditions to Avoid: N/A
- Hazardous Decomposition Products: N/A

**Section 11: Toxicological Information**

- Special Hazard Information on Components: No known applicable information
- Listed on NTP Report? No
- Listed on IARC (Suspected Carcinogen)? No

**Section 12: Ecological Information**

- Exotoxicity: N/D
- Persistence and Degradability: Similar to water
- Bio accumulative Potential: N/D
- Mobility in Soil?: N/D

**Section 13: Disposal Considerations**

Review all federal, state and local laws regarding disposal of this product.

**Section 14: Transportation Information**

- DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

**Section 15: Regulatory Information**

Contents of this SDS comply with OSHA's Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: No components listed on this SDS are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: No

CERCLA Hazardous Substances: No

Section 311/312 Hazard Class: No

Section 313 Toxic Chemicals: No

**Section 16: Other Information**

5-18-15. Revised 5-20-15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Trifecta
Generic Name: N/A
Product Code: 0498
Date Issued: 4-24-15
Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924

Section 2: Hazard(s) Identification

Signal Word = Warning
Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.
Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS's**

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<td>&lt;5</td>
<td>NA</td>
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<td>No Data</td>
<td>No Data</td>
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</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: 200.98°F
Auto ignition Temperature: Not Determined
Flammability Limits: No Data
Extinguishing Media: Select extinguisher suitable for surrounding fire
Unusual Fire Hazards: N/A

Fire Fighting Methods: Use methods suitable for surrounding fire.

Section 6: Accidental Release Measures

Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.
**Section 7: Handling and Storage**

Store containers in an upright position. Ensure container lids are in place and secure when not in use.

**Section 8: Exposure Controls**

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Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required with adequate ventilation

**Section 9: Physical and Chemical Properties**

- **Physical Form:** Liquid
- **Color:** White Milky
- **Boiling Point:** 212 °F Initial
- **Viscosity:** No Data
- **Vapor Pressure:** No Data
- **Odor:** Glycol Ether
- **Specific Gravity:** 1.043
- **pH:** 6
- **Vapor Density:** No Data
- **Color:** White Milky
- **Boiling Point:** 212 °F Initial
- **Viscosity:** No Data
- **Vapor Pressure:** No Data
- **Odor:** Glycol Ether
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**Section 10: Stability and Reactivity**

- **Chemical Stability:** Stable
- **Hazardous Polymerization:** Will not Occur
- **Hazardous Decomposition Products:** N/A
- **Conditions to Avoid:** N/A
- **Materials to Avoid:** N/A

**Section 11: Toxicological Information**

- **Special Hazard Information on Components:** No known applicable information
- **Listed on NTP Report?** No
- **Listed on IARC (Suspected Carcinogen)?** No

**Section 12: Ecological Information**

- **Exotoxicity:** N/D
- **Persistence and Degradability:** Similar to water
- **Bio accumulative Potential:** N/D
- **Mobility in Soil?** N/D

**Section 13: Disposal Considerations**

Review all federal, state and local laws regarding disposal of this product.

**Section 14: Transportation Information**

DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

**Section 15: Regulatory Information**

Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: No components listed on this SDS are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: No

CERCLA Hazardous Substances: No

Section 311/312 Hazard Class: No

Section 313 Toxic Chemicals: No

**Section 16: Other Information**

4/24/15. Revised 5/20/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
Safety Data Sheet

Section 1: Identification

Name: Lemon Breeze
Generic Name: Deodorizer
Date Issued: 5-21-15
Product Code: 0980

Alco-Chem, Inc. 45 North Summit Street Akron, Ohio 44308
Emergency Telephone: 800-255-3924
Product Information: 330-253-3535

Section 2: Hazard(s) Identification

Signal Word = Warning
Hazard Category:
Acute Oral Toxicity = 4 - Harmful if swallowed
Eye Damage/Irritation = 2B - Causes eye irritation

Precautionary Statement:
Prevention = Wash any contacted parts of the body after handling with soap and water thoroughly. Wear eye protection/face protection.
Response = If swallowed, contact a physician immediately and follow advice from medical professional. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Storage = Store containers in an upright position. Ensure container lids are in place and secure when not in use.
Disposal = Review all federal, state and local laws regarding disposal of this product.

Disposal = Review all federal, state and local laws regarding disposal of this product.

Prolonged/Repeated Exposure Effects:
Eye: Similar to effects from acute exposure
Skin: Similar to effects from acute exposure
Inhalation: Similar to acute exposure
Ingestion: Similar to acute exposure

**The above listed potential effects are compiled based on a review of all component SDS’s**

Section 3: Composition Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>% by Vol</th>
<th>RQ#</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>68424-85-1</td>
<td>Alkyl dimethyl benzyl ammonium chloride</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>57-55-6</td>
<td>Propylene Glycol</td>
<td>&lt;5</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

**Components listed above are hazardous as defined in 29 CFR 1910.1200. Their quantities are proprietary. All remaining components are considered non-hazardous and proprietary in their quantities**

Section 4: First Aid Measures

Eye: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Skin: Flush affected area with large quantities of water for at least 15 minutes. Obtain medical attention if irritation persists.
Inhalation: If symptoms are experienced, remove victim to fresh air. Obtain medical attention if irritation persists.
Ingestion: Obtain medical attention.

Section 5: Fire Fighting Measures

Flash Point: N/A
Auto ignition Temperature: Not Determined
Flammability Limits: N/A
Extinguishing Media: Select extinguisher suitable for surrounding fire

Fire Fighting Methods: Use methods suitable for surrounding fire.

Unusual Fire Hazards: N/A
Section 6: Accidental Release Measures
Containment and Clean up: Observe all personal protective equipment noted in sections 5 and 8. Observe local, state, and federal laws and regulations that may apply to a release and disposal of this material.

Section 7: Handling and Storage
Store containers in an upright position. Ensure container lids are in place and secure when not in use.

Section 8: Exposure Controls

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>OSHA</th>
<th>TWA</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>68424-85-1</td>
<td>Alkyl dimethyl benzyl ammonium chloride</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
<tr>
<td>57-55-6</td>
<td>Propylene Glycol</td>
<td>No Data</td>
<td>No Data</td>
<td>No Data</td>
</tr>
</tbody>
</table>

Engineering Controls: Use with adequate ventilation

PPE for Routine Handling and Spills: Wear safety glasses and chemical resistant gloves.

Eyes: Safety glasses recommended

Skin: Chemical protective gloves are recommended

Inhalation: No respiratory protection required w/ adequate ventilation

Section 9: Physical and Chemical Properties
Physical Form: Liquid
Odor: Lemon
Solubility in H2O: 100%

Color: Clear Yellow
Specific Gravity: 1.00
pH: 5

Boiling Point: 212
Viscosity: No Data
Vapor Density: >1

Vapor Pressure: 20 mm Hg @ 68°F
Volatility: 90%
Evaporation Rate: <1

Section 10: Stability and Reactivity
Chemical Stability: Stable
Hazardous Polymerization: Will not Occur
Conditions to Avoid: N/A

Hazardous Decomposition Products: N/A

Section 11: Toxicological Information
Special Hazard Information on Components: No known applicable information
Listed on NTP Report? No
Listed on IARC (Suspected Carcinogen)? No

Section 12: Ecological Information
Exotoxicity: N/D
Bio accumulative Potential: N/D
Persistence and Degradability: Similar to water
Mobility in Soil? N/D

Section 13: Disposal Considerations
Review all federal, state and local laws regarding disposal of this product.

Section 14: Transportation Information
DOT Shipment Information (49 CRF 172.101): Non Dot Regulated

Section 15: Regulatory Information
Contents of this SDS comply with OSHA’s Hazard Communication Standard 29 CRF 1910.1200.

TSCA Status: No components in this product are subject to the Toxic Substances Control Act (TSCA) section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.

EPA SARA Title III Chemical Listings: Yes
CERCLA Hazardous Substances: No
Section 311/312 Hazard Class: Yes (Alkyl dimethyl benzyl ammonium chloride, Propylene Glycol)
Section 313 Toxic Chemicals: No

Section 16: Other Information
Prepared by: J. Chantz Horman on 5/21/15. The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
SAFETY DATA SHEET

C-050
Apr 01, 2015
FOAMING CRYSTAL CLEAR

SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID : C-050
Product Name : FOAMING CRYSTAL CLEAR
Revision Date : Apr 01, 2015
Version: 1.0
Distributor’s Name : ALCO-CHEM, Inc.
Address : 45 N. Summit Street - Akron, OH 44308 USA
Emergency Phone : 1-800-535-5053
Information Phone : (330) 253-3535
Fax : 
Product/Recommended Uses: Glass Cleaner

SECTION 2) HAZARDS IDENTIFICATION

Classification:
- Skin Irritation - Category 2
- Eye Irritation - Category 2
- Aerosol - Category 3

Pictograms:

Signal Word:
Warning

Hazardous Statements - Physical:
H229 - Pressurised container: May burst if heated

Hazardous Statements - Health:
H319 - Causes serious eye irritation
H315 - Causes skin irritation

Precautionary Statements - General:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention:
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

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

Precautionary Statements - Storage:

P410 - Protect from sunlight.

P412 - Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal:

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0007732-18-5</td>
<td>WATER</td>
<td>59% - 100%</td>
</tr>
<tr>
<td>0000111-76-2</td>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>2% - 3%</td>
</tr>
<tr>
<td>0000106-97-8</td>
<td>BUTANE</td>
<td>1% - 3%</td>
</tr>
<tr>
<td>0000064-17-5</td>
<td>ETHYL ALCOHOL</td>
<td>1% - 2%</td>
</tr>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>0.1% - 1.8%</td>
</tr>
<tr>
<td>0000075-28-5</td>
<td>ISOBUTANE</td>
<td>0.1% - 1.7%</td>
</tr>
</tbody>
</table>

SECTION 4) FIRST-AID MEASURES

Inhalation:
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

Eye Contact:
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:
Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**

- Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.
- Care should always be exercised in dust/mist areas.

### SECTION 6) ACCIDENTAL RELEASE MEASURES

**Emergency Procedure:**

Flammable/combustible material.

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

**Recommended Equipment:**

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

**Personal Precautions:**

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

**Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### SECTION 7) HANDLING AND STORAGE

**General:**

- For industrial and institutional use only.
- For use by trained personnel only.
- Keep away from children.
- Wash hands after use.
- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Use good personal hygiene practices.
- Eating, drinking and smoking in work areas is prohibited.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Eyewash stations and showers should be available in areas where this material is used and stored.

**Ventilation Requirements:**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

*Store at temperatures below 120°F.*

### SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

**Eye Protection:**

Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

**Skin Protection:**

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.
Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m3)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m3)</th>
<th>OSHA-Tables-Z1,2,3</th>
<th>OSHA Carcinogen</th>
<th>OSHA Skin designation</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m3)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m3)</th>
<th>NIOSH Carcinogen</th>
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<table>
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<th>ACGIH TWA (mg/m3)</th>
<th>ACGIH STEL (ppm)</th>
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<td>BUTANE</td>
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<td>ETHYL ALCOHOL</td>
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<tr>
<td>PROPANE</td>
<td>See Appendix F: Minimal Oxygen Content</td>
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</tr>
</tbody>
</table>

**SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

- **Density**: 7.95765 lb/gal
- **Density VOC**: 0.79529 lb/gal
- **% VOC**: 9.99400%
- **VOC Actual**: 0.79529 lb/gal
- **VOC Actual**: 95.29927 g/l

- **Appearance**: N.A.
- **Odor Threshold**: N.A.
- **Odor Description**: N.A.
- **pH**: 10
- **Water Solubility**: N.A.
- **Flammability**: Flash Point at or above 200 °F
- **Flash Point Symbol**: N.A.
- **Flash Point**: N.A.
- **Viscosity**: N.A.
- **Lower Explosion Level**: N.A.
Upper Explosion Level: N.A.
Melting Point: N.A.
Vapor Density: Slower than ether
Freezing Point: N.A.
Low Boiling Point: N.A.
High Boiling Point: 212 °F
Decomposition Pt: N.A.
Auto Ignition Temp: N.A.
Evaporation Rate: Slower than ether

SECTION 10) STABILITY AND REACTIVITY

Stability:
Stable.

Conditions to Avoid:
High temperatures.

Incompatible Materials:
None known.

Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.
Causes skin irritation

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.
Causes serious eye irritation

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
No data available

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
No data available

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.
MORPHOLINE

LC50 (rat): 2250 ppm/duration not reported (male rat) (1,9); 2150 ppm/duration not reported (female rat) (1,9); greater than 22.2 mg/L (6240 ppm)/1-hr exposure (12)
LC50 (mouse): 1320 mg/m3 (371 ppm)/2-hr exposure (reported but cannot be confirmed) (1)
LD50 (oral, rat): 1600 mg/kg (7,12,13); 1050 mg/kg (3,7,9,12)
LD50 (oral, mouse): 525 mg/kg (16); 720 mg/kg (15)
LD50 (oral, guinea pig): 900 mg/kg (7,12,13)
LD50 (skin, rabbit): 0.5 mL/kg/24-hr (500 mg/kg/24-hr) (undiluted) (3,7,12,16)
Lethal dose (o

ETHYL ALCOHOL

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed)
LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)
LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)
LD50 (oral, guinea pig): 5560 mg/kg (37)

ETHYLENE GLYCOL MONOBUTYL ETHER

LC50 (female rat): 450 ppm (4-hour exposure) (2)
LC50 (male rat): 486 ppm (4-hour exposure) (2)
LD50 (oral, male weanling rat): 3000 mg/kg (1)
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)
LD50 (oral, yearling male rat): 560 mg/kg (1)
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1)LD50 (oral, male mouse): 1230 mg/kg (1)
LD50 (oral, rabbit): 320 mg/kg (1)
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

ISOBUTANE

LC50 (mouse, inhalation): 520,000 ppm (52%); 2-hour exposure.(4)

BUTANE

LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)
LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

Potential Health Effects - Miscellaneous

The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:
No data available.

Persistence and Degradability:
No data available.

Bio-Accumulative Potential:
No data available.

Mobility in Soil:
No data available.

Other Adverse Effects:
No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:
Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.
SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:
Consumer Commodity, ORM-D

IMDG Information:
Consumer Commodity, ORM-D

IATA Information:
Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000064-17-5</td>
<td>ETHYL ALCOHOL</td>
<td>1% - 2%</td>
<td>SARA312, VOC, TSCA, ACGIH, OSHA</td>
</tr>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>0.1% - 1.8%</td>
<td>SARA312, VOC, TSCA, ACGIH, OSHA</td>
</tr>
<tr>
<td>0000075-28-5</td>
<td>ISOBUTANE</td>
<td>0.1% - 1.7%</td>
<td>SARA312, VOC, TSCA, ACGIH</td>
</tr>
<tr>
<td>000106-97-8</td>
<td>BUTANE</td>
<td>1% - 3%</td>
<td>SARA312, VOC, TSCA, ACGIH</td>
</tr>
<tr>
<td>000111-76-2</td>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>2% - 3%</td>
<td>CERCLA, SARA312, SARA313, VOC, TSCA, ACGIH, OSHA</td>
</tr>
<tr>
<td>0007732-18-5</td>
<td>WATER</td>
<td>59% - 100%</td>
<td>TSCA</td>
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</table>

SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for
  the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases,
  our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG-
Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center
(US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)-
HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESI- Effects
screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire
Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of
Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund
Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ
- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA
DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID: 611-14
Product Name: FRESH SCENT
Revision Date: Nov 28, 2014
Version: 1.0
Distributor’s Name: ALCO-CHEM, Inc.
Address: 45 N. Summit Street - Akron, OH 44308 USA
Emergency Phone: 1-800-535-5053
Information Phone: (330) 253-3535
Fax:
Product/Recommended Uses: Eliminates tobacco smoke, cooking odors, mold, and mildew odors

SECTION 2) HAZARDS IDENTIFICATION

Classification:
Specific Target Organ Toxicity -Single Exposure (Narcotic Effects) - Category 3
Eye Irritation - Category 2A
Acute toxicity Oral Category 5
Aerosol - Category 1

Pictograms:

Signal Word: Danger

Hazardous Statements - Physical:
H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

Hazardous Statements - Health:
H303 - Maybe harmful if swallowed
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary Statements - General:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention:
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
Precautionary Statements - Response:
P251 - Do not pierce or burn, even after use.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary Statements - Storage:
P403 + P405 - Store in a well-ventilated place. Store locked up.
P410 - Protect from sunlight.
P412 - Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal:
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
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<tbody>
<tr>
<td>0000067-64-1</td>
<td>ACETONE</td>
<td>46% - 81%</td>
</tr>
<tr>
<td>000074-98-6</td>
<td>PROPANE</td>
<td>19% - 34%</td>
</tr>
</tbody>
</table>

SECTION 4) FIRST-AID MEASURES

Inhalation:
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

Eye Contact:
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:
Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide.
Fire-Fighting Procedures:
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:
Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:
Flammable/combustible material.
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas.
Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:
Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:
For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:
Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:
Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

**Respiratory Protection:**

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m³)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m³)</th>
<th>OSHA Carcinogen</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m³)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m³)</th>
<th>NIOSH Carcinogen</th>
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<td>1000</td>
<td>2400</td>
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<td>250</td>
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<table>
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<th>ACGIH TWA (ppm)</th>
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<tr>
<td>ACETONE</td>
<td>500</td>
<td>1188</td>
<td>750</td>
<td>1782</td>
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<tr>
<td>PROPANE</td>
<td>See Appendix F: Minimal Oxygen Content</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

- **Density**
  - 5.67350 lb/gal

- **Density VOC**
  - 1.64532 lb/gal

- **% VOC**
  - 29.00000%

- **VOC Actual**
  - 1.64532 lb/gal

- **VOC Actual**
  - 197.15823 g/l

- **VOC Regulatory**
  - 1.64532 lb/gal

- **VOC Regulatory**
  - 197.15823 g/l

- **Appearance**
  - Clear

- **Odor Threshold**
  - NA

- **Odor Description**
  - Clean Crisp Scent

- **pH**
  - NA

- **Water Solubility**
  - Slightly

- **Flammability**
  - Flashpoint below 73 °F

- **Flash Point Symbol**
  - NA

- **Flash Point**
  - NA

- **Viscosity**
  - NA

- **Lower Explosion Level**
  - 1.8

- **Upper Explosion Level**
  - 9.5

- **Melting Point**
  - NA

- **Vapor Density**
  - Slower than ether
SECTION 10) STABILITY AND REACTIVITY

Stability:
Stable.

Conditions to Avoid:
High temperatures.

Incompatible Materials:
None known.

Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.
Causes serious eye irritation

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
Aspiration hazard if swallowed.

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000067-64-1   ACETONE
LC50 (male rat): 30000 ppm (4-hour exposure); cited as 71000 mg/m3 (4-hour exposure) (29)
LC50 (male mouse): 18600 ppm (4-hour exposure); cited as 44000 mg/m3 (4-hour exposure) (29)
LD50 (oral, female rat): 5800 mg/kg (24)
LD50 (oral, mature rat): 6700 mg/kg (cited as 8.5 mL/kg) (31)
LD50 (oral, newborn rat): 1750 mg/kg (cited as 2.2 mL/kg) (31)
LD50 (oral, mouse): 3000 mg/kg (32, unconfirmed)
LD50 (dermal, rabbit): Greater than 16000 mg/kg cited as 20 mL/kg (30)
Potential Health Effects - Miscellaneous

0000067-64-1  ACETONE

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:
No data available.

Mobility in Soil:
No data available.

Other Adverse Effects:
No data available.

Bio-accumulative Potential
0000067-64-1  ACETONE
Does not bioaccumulate

Persistence and Degradability
0000067-64-1  ACETONE
91% readily biodegradable, Method: OECD Test Guideline 301B

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:
Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:
Consumer Commodity, ORM-D

IMDG Information:
Consumer Commodity, ORM-D

IATA Information:
Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
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<tbody>
<tr>
<td>0000067-64-1</td>
<td>ACETONE</td>
<td>46% - 81%</td>
<td>CERCLA,SARA312,TSCA,RCRA,ACGIH,OSHA</td>
</tr>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>19% - 34%</td>
<td>SARA312,TSCA,ACGIH,OSHA</td>
</tr>
</tbody>
</table>

SECTION 16) OTHER INFORMATION

Glossary:
* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.
DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

<table>
<thead>
<tr>
<th>Product ID</th>
<th>160-17</th>
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<tbody>
<tr>
<td>Product Name</td>
<td>MAHOGANY LANE</td>
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<tr>
<td>Revision Date</td>
<td>Apr 07, 2015</td>
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<tr>
<td>Version</td>
<td>1.0</td>
</tr>
<tr>
<td>Distributor's Name</td>
<td>ALCO-CHEM, Inc.</td>
</tr>
<tr>
<td>Address</td>
<td>45 N. Summit Street - Akron, OH 44308 USA</td>
</tr>
<tr>
<td>Emergency Phone</td>
<td>1-800-535-5053</td>
</tr>
<tr>
<td>Information Phone</td>
<td>(330) 253-3535</td>
</tr>
<tr>
<td>Fax</td>
<td></td>
</tr>
<tr>
<td>Product/Recommended Uses</td>
<td>Lemon Furniture Polish</td>
</tr>
</tbody>
</table>

SECTION 2) HAZARDS IDENTIFICATION

Classification:
- Aspiration Hazard - Category 1
- Aerosol - Category 3

Pictograms:

Signal Word:
- Warning

Hazardous Statements - Physical:
- H229 - Pressurised container: May burst if heated

Hazardous Statements - Health:
- H304 - May be fatal if swallowed and enters airways

Precautionary Statements - General:
- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P103 - Read label before use.

Precautionary Statements - Prevention:
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 - Do NOT induce vomiting.

Precautionary Statements - Storage:
- P405 - Store locked up.
- P410 - Protect from sunlight.
- P412 - Do not expose to temperatures exceeding 50 °C/122 °F.
SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
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<td>0007732-18-5</td>
<td>WATER</td>
<td>48% - 86%</td>
</tr>
<tr>
<td>0064741-66-8</td>
<td>LIGHT ALKYLATE NAPHTHA</td>
<td>6% - 12%</td>
</tr>
<tr>
<td>0000075-37-6</td>
<td>DIFLUOROETHANE</td>
<td>4% - 9%</td>
</tr>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>4% - 9%</td>
</tr>
</tbody>
</table>

SECTION 4) FIRST-AID MEASURES

**Inhalation:**
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

**Eye Contact:**
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact:**
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

**Ingestion:**
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:**
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Unsuitable Extinguishing Media:**
Water may be ineffective but can be used to cool containers exposed to heat or flame.

**Specific Hazards in Case of Fire:**
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

**Fire-Fighting Procedures:**
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**
Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.
Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES
Emergency Procedure:
Flammable/combustible material. ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas. Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:
Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:
For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:
Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:
Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.
Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced.
Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.
When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.
SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

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<td>Density</td>
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<tr>
<td>Density VOC</td>
<td>1.34400 lb/gal</td>
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<tr>
<td>% VOC</td>
<td>16.80000%</td>
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<tr>
<td>VOC Actual</td>
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<tr>
<td>VOC Actual</td>
<td>161.05152 g/l</td>
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Appearance: N.A.
Odor Threshold: N.A.
Odor Description: N.A.
pH: 8.9
Water Solubility: Emulsion
Flammability: Will not burn
Flash Point Symbol: N.A.
Flash Point: N.A.
Viscosity: N.A.
Lower Explosion Level: N.A.
Upper Explosion Level: N.A.
Melting Point: N.A.
Vapor Density: Slower than ether
Freezing Point: N.A.
Low Boiling Point: 212 °F
High Boiling Point: N.A.
Decomposition Pt: 0
Auto Ignition Temp: N.A.
Evaporation Rate: Slower than ether

SECTION 10) STABILITY AND REACTIVITY

Stability:
Stable.

Conditions to Avoid:
High temperatures.
Incompatible Materials:
None known.

Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
No data available

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
May be fatal if swallowed and enters airways

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:
No data available.

Persistence and Degradability:
No data available.

Bio-Accumulative Potential:
No data available.

Mobility in Soil:
No data available.

Other Adverse Effects:
No data available.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:
Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:
Consumer Commodity, ORM-D

IMDG Information:
Consumer Commodity, ORM-D

IATA Information:
Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
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<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>4% - 9%</td>
<td>SARA312, VOC, TSCA, ACGIH, OSHA</td>
</tr>
<tr>
<td>0000075-37-6</td>
<td>DIFLUOROETHANE</td>
<td>4% - 9%</td>
<td>SARA312, VOC, exempt, TSCA, ACGIH, OSHA</td>
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<tr>
<td>007732-18-5</td>
<td>WATER</td>
<td>48% - 86%</td>
<td>TSCA</td>
</tr>
<tr>
<td>0064741-66-8</td>
<td>LIGHT ALKYLATE NAPHTHA</td>
<td>6% - 12%</td>
<td>SARA312, VOC, TSCA, OSHA</td>
</tr>
</tbody>
</table>

SECTION 16) OTHER INFORMATION

Glossary:
* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.
DISCLAIMER

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SECTION 1) CHEMICAL PRODUCT AND SUPPLIER’S IDENTIFICATION

Product ID: 28412
Product Name: TERMINATOR
Revision Date: May 07, 2015
Version: 1.0
Date Printed: May 07, 2015
Supersedes Date: N.A.
Distributor’s Name: ALCO-CHEM, Inc.
Address: 45 N. Summit Street - Akron, OH 44308 USA
Emergency Phone: 1-800-535-5053
Information Phone: (330) 253-3535
Fax:
Product/Recommended Uses: Wasp & Hornet Killer

SECTION 2) HAZARDS IDENTIFICATION

Classification:
- Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3
- Aspiration Hazard - Category 1
- Skin Irritation - Category 2
- Aerosol - Category 1

Pictograms:

Signal Word:
Danger

Hazardous Statements - Physical:
- H222, H229 - Extremely flammable aerosol, Pressurized container may burst if heated

Hazardous Statements - Health:
- H336 - May cause drowsiness or dizziness
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation

Precautionary Statements - General:
- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P103 - Read label before use.

Precautionary Statements - Prevention:
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P233 - Keep container tightly closed.
- P264 - Wash thoroughly after handling.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 - Do NOT induce vomiting.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P321 + P333 - Get medical advice/attention.
P362 + P364 - Take off contaminated clothing. And wash it before reuse.

Precautionary Statements - Storage:
P403 + P405 - Store in a well-ventilated place. Store locked up.
P405 - Store locked up.
P410 - Protect from sunlight.
P412 - Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements - Disposal:
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>0064742-47-8</td>
<td>ISOPARAFFINIC PETROLEUM DISTILLATE</td>
<td>63% - 100%</td>
</tr>
<tr>
<td>0000124-38-9</td>
<td>CO2</td>
<td>2% - 4%</td>
</tr>
<tr>
<td>0007696-12-0</td>
<td>TETRAMETHRIN</td>
<td>0.2% - 0.4%</td>
</tr>
<tr>
<td>0026002-80-2</td>
<td>PHENOTHIRIN</td>
<td>0.1% - 0.2%</td>
</tr>
</tbody>
</table>

SECTION 4) FIRST-AID MEASURES

Inhalation:
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

Eye Contact:
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.
Unsuitable Extinguishing Media:
Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:
Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Care should always be exercised in dust/mist areas.

SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:
Flammable/combustible material.
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas.
Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:
Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:
For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
Store at temperatures below 120°F.
SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:
Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:
Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m³)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m³)</th>
<th>OSHA Skin Carcinogen</th>
<th>OSHA Skin designation</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m³)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m³)</th>
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<td>9000</td>
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<td></td>
<td></td>
<td>5000</td>
<td>9000</td>
<td>30000</td>
<td>54000</td>
<td></td>
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</table>

| Chemical Name | ACGIH TWA (ppm) | ACGIH TWA (mg/m³) | ACGIH STEL (ppm) | ACGIH STEL (mg/m³) | |
|---------------|-----------------|-----------------|-----------------|------------------| |
| CO2           | 5000            | 9000            | 30000           | 54000            | |

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
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<td>Density</td>
<td>6.89099 lb/gal</td>
</tr>
<tr>
<td>Density VOC</td>
<td>0.09647 lb/gal</td>
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<tr>
<td>% VOC</td>
<td>1.40000%</td>
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<tr>
<td>VOC Actual</td>
<td>0.09647 lb/gal</td>
</tr>
<tr>
<td>VOC Actual</td>
<td>11.56046 g/l</td>
</tr>
<tr>
<td>VOC Regulatory</td>
<td>0.09647 lb/gal</td>
</tr>
<tr>
<td>VOC Regulatory</td>
<td>11.56046 g/l</td>
</tr>
<tr>
<td>Appearance</td>
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<tr>
<td>Odor Threshold</td>
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<td>Odor Description</td>
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<td>Water Solubility</td>
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<td>Flammability</td>
<td>Flashpoints at or above 100 °F and less than 200 °F</td>
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<tr>
<td>Flash Point Symbol</td>
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<tr>
<td>Flash Point</td>
<td>N.A.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.A.</td>
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</tbody>
</table>
SECTION 10) STABILITY AND REACTIVITY

Stability:
Stable.

Conditions to Avoid:
High temperatures.

Incompatible Materials:
None known.

Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.
Causes skin irritation

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
May cause drowsiness or dizziness

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
May be fatal if swallowed and enters airways

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

SECTION 12) ECOLOGICAL INFORMATION
Toxicity:
No data available.

Persistence and Degradability:
No data available.

Bio-Accumulative Potential:
No data available.

Mobility in Soil:
No data available.

Other Adverse Effects:
No data available.

Bio-accumulative Potential
0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
Contains constituents with the potential to bio accumulate.

Mobility in Soil
0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
Floats on water. Contains volatile constituents. Evaporates within a day from water or soil surfaces. Large volumes may penetrate soil and could contaminate groundwater.

Persistence and Degradability
0064742-47-8 ISOPARAFFINIC PETROLEUM DISTILLATE
Expected to be inherently biodegradable. The volatile constituents will oxidize rapidly by photochemical reactions in air.

SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:
Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

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<tr>
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<td>SARA312,SARA313,VOC</td>
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Glossary:
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SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product ID : 149-16
Product Name : Virosol
Revision Date : May 08, 2015
Version: 1.0
Distributor's Name : ALCO-CHEM, Inc.
Address : 45 N. Summit Street - Akron, OH 44308 USA
Emergency Phone : 1-800-535-5053
Information Phone : (330) 253-3535
Fax :

Product/Recommended Uses: Disinfectant

SECTION 2) HAZARDS IDENTIFICATION

Classification:
Flammable Liquids Category 2
Aerosol - Category 3

Pictograms:

Signal Word:
Danger

Hazardous Statements - Physical:
H225 - Highly flammable liquid and vapor
H229 - Pressurised container: May burst if heated

Precautionary Statements - General:
P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read label before use.

Precautionary Statements - Prevention:
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:
P303 - IF ON SKIN (or hair):
P361 - Take off immediately all contaminated clothing.
P353 - Rinse skin with water or shower.

P370 - In case of fire:
P378 - Use water fog, dry chemical or carbon dioxide to extinguish.
SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% by Weight</th>
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</thead>
<tbody>
<tr>
<td>0007732-18-5</td>
<td>WATER</td>
<td>38% - 68%</td>
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<tr>
<td>0000064-17-5</td>
<td>ETHYL ALCOHOL</td>
<td>17% - 30%</td>
</tr>
<tr>
<td>0000106-97-8</td>
<td>BUTANE</td>
<td>6% - 12%</td>
</tr>
<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>3% - 6%</td>
</tr>
</tbody>
</table>

SECTION 4) FIRST-AID MEASURES

Inhalation:
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

Eye Contact:
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Skin Contact:
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

Ingestion:
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

SECTION 5) FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

Unsuitable Extinguishing Media:
Water may be ineffective but can be used to cool containers exposed to heat or flame.

Specific Hazards in Case of Fire:
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

Fire-Fighting Procedures:
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:
SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

Flammable/combustible material.
ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas.
Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:
For industrial and institutional use only.
For use by trained personnel only.
Keep away from children.
Wash hands after use.
Do not get in eyes, on skin or on clothing.
Do not breathe vapors or mists.
Use good personal hygiene practices.
Eating, drinking and smoking in work areas is prohibited.
Remove contaminated clothing and protective equipment before entering eating areas.
Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:
Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:
Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:
Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:
Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.
Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:
If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.

When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

### SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

#### Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA TWA (ppm)</th>
<th>OSHA TWA (mg/m³)</th>
<th>OSHA STEL (ppm)</th>
<th>OSHA STEL (mg/m³)</th>
<th>OSHA-Tables Z1,2,3</th>
<th>OSHA Carcinogen</th>
<th>OSHA Skin designation</th>
<th>NIOSH TWA (ppm)</th>
<th>NIOSH TWA (mg/m³)</th>
<th>NIOSH STEL (ppm)</th>
<th>NIOSH STEL (mg/m³)</th>
<th>NIOSH Carcinogen</th>
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<td>BUTANE</td>
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</tr>
<tr>
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<td>1000</td>
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<td></td>
<td></td>
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<td></td>
</tr>
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</table>

#### Chemical Name

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TWA (ppm)</th>
<th>ACGIH TWA (mg/m³)</th>
<th>ACGIH STEL (ppm)</th>
<th>ACGIH STEL (mg/m³)</th>
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</thead>
<tbody>
<tr>
<td>BUTANE</td>
<td>1000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ETHYL ALCOHOL</td>
<td>1000</td>
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<td></td>
</tr>
<tr>
<td>PROPANE</td>
<td>See Appendix F: Minimal Oxygen Content</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SECTION 10) STABILITY AND REACTIVITY

#### Physical and Chemical Properties

- **Density**: 6.90178 lb/gal
- **Density VOC**: 2.49845 lb/gal
- **% VOC**: 36.20000%
- **VOC Actual**: 2.49845 lb/gal
- **VOC Actual**: 299.38867 g/l

#### Appearance**: N.A.
- **Odor Threshold**: N.A.
- **Odor Description**: Citrus
- **pH**: N.A.
- **Water Solubility**: N.A.
- **Flammability**: Flashpoint below 73 °F
- **Flash Point Symbol**: N.A.
- **Flash Point**: <0 °F
- **Viscosity**: N.A.
- **Lower Explosion Level**: 1.9
- **Upper Explosion Level**: 19
- **Melting Point**: N.A.
- **Vapor Density**: Slower than ether
- **Freezing Point**: N.A.
- **Low Boiling Point**: N.A.
- **High Boiling Point**: N.A.
- **Decomposition Pt**: N.A.
- **Auto Ignition Temp**: N.A.
- **Evaporation Rate**: Slower than ether
Stability:
Stable.

Conditions to Avoid:
High temperatures.

Incompatible Materials:
None known.

Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
No data available

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
No data available

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000064-17-5 ETHYL ALCOHOL
LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed)
LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)
LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed)
LD50 (oral, guinea pig): 5560 mg/kg (37)

0000106-97-8 BUTANE
LC50 (mouse): 202000 ppm (481000 mg/m3) (4-hour exposure); cited as 680 mg/L (2-hour exposure) (9)
LC50 (rat): 276000 ppm (658000 mg/m3) (4-hour exposure); cited as 658 mg/L (4-hour exposure) (9)

Potential Health Effects - Miscellaneous
0000064-17-5 ETHYL ALCOHOL
The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.
SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:
Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:
Consumer Commodity, ORM-D

IMDG Information:
Consumer Commodity, ORM-D

IATA Information:
Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000064-17-5</td>
<td>ETHYL ALCOHOL</td>
<td>17% - 30%</td>
<td>SARA312,VOC,TSCA,ACGIH,OSHA</td>
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<tr>
<td>0000074-98-6</td>
<td>PROPANE</td>
<td>3% - 6%</td>
<td>SARA312,VOC,TSCA,ACGIH,OSHA</td>
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<tr>
<td>0000106-97-8</td>
<td>BUTANE</td>
<td>6% - 12%</td>
<td>SARA312,VOC,TSCA,ACGIH</td>
</tr>
<tr>
<td>0007732-18-5</td>
<td>WATER</td>
<td>38% - 68%</td>
<td>TSCA</td>
</tr>
</tbody>
</table>

SECTION 16) OTHER INFORMATION

Glossary:
* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.
DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
SECTION 1) CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Product Name : Melt Down Jr. Baseboard Stripper
Revision Date : Oct 16, 2014
Date Printed : Apr 28, 2015
Version: 1.0
Supersedes Date : N.A.
Distributor's Name : ALCO-CHEM, INC.
Address : 45 N. SUMMIT STREET - AKRON, OH 44308 USA
Emergency Phone : 1-800-535-5053
Information Phone : (330) 253-3535
Fax :
Product/Recommended Uses: Foaming baseboard stripper

SECTION 2) HAZARDS IDENTIFICATION

Classification:
- Serious Eye Damage - Category 1
- Corrosive to metals Category 1
- Aerosol - Category 3

Pictograms:

Signal Word:
Danger

Hazardous Statements - Physical:
- H290 - May be corrosive to metals
- H229 - Pressurised container: May burst if heated

Hazardous Statements - Health:
- H318 - Causes serious eye damage

Precautionary Statements - General:
- P101 - If medical advice is needed, have product container or label at hand.
- P102 - Keep out of reach of children.
- P103 - Read label before use.

Precautionary Statements - Prevention:
- P234 - Keep only in original packaging.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P251 - Do not pierce or burn, even after use.

Precautionary Statements - Response:
- P390 - Absorb spillage to prevent material damage.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**SECTION 4) FIRST-AID MEASURES**

**Inhalation:**
Remove source of exposure or move person to fresh air and keep comfortable for breathing.
If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

**Eye Contact:**
Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Skin Contact:**
Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. Call a POISON CENTER/doctor if you feel unwell. Store contaminated clothing under water and wash before reuse or discard.

**Ingestion:**
Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.
Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

**SECTION 5) FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**
Use water, fog, dry chemical, or carbon dioxide.
Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

**Unsuitable Extinguishing Media:**
Water may be ineffective but can be used to cool containers exposed to heat or flame.

**Specific Hazards in Case of Fire:**
Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force.
Aerosol cans may rupture when heated.
Heated cans may burst.
In fire, will decompose to carbon dioxide, carbon monoxide

**Fire-Fighting Procedures:**
Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**
Wear protective pressure self-contained breathing apparatus (SCBA)and full turnout gear.
SECTION 6) ACCIDENTAL RELEASE MEASURES

Emergency Procedure:
- Flammable/combustible material.
- ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stay upwind; keep out of low areas.
- Immediately turn off or isolate any source of ignition. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Clean up immediately. Use absorbent sweeping compound to soak up material and put into suitable container for proper disposal.

Recommended Equipment:
- Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:
- ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Use explosion proof equipment. Avoid breathing vapor. Avoid contact with skin, eye or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:
- Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

SECTION 7) HANDLING AND STORAGE

General:
- For industrial and institutional use only.
- For use by trained personnel only.
- Keep away from children.
- Wash hands after use.
- Do not get in eyes, on skin or on clothing.
- Do not breathe vapors or mists.
- Use good personal hygiene practices.
- Eating, drinking and smoking in work areas is prohibited.
- Remove contaminated clothing and protective equipment before entering eating areas.
- Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:
- Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:
- Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight and incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous.
- Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.
- Store at temperatures below 120°F.

SECTION 8) EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection:
- Chemical goggles, safety glasses with side shields or vented/splash proof goggles. Contact lenses may absorb irritants. Particles may adhere to lenses and cause corneal damage.

Skin Protection:
- Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.
- Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Chemical-resistant clothing is recommended to avoid prolonged contact. Avoid unnecessary skin contact.

Respiratory Protection:
- If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for combined particulate/organic gases and vapors.
When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>8.04503 lb/gal</td>
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<tr>
<td>Density VOC</td>
<td>2.34182 lb/gal</td>
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<td>% VOC</td>
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<tr>
<td>VOC Actual</td>
<td>2.34182 lb/gal</td>
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<td>VOC Actual Regulatory</td>
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<td>Odor Threshold</td>
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<td>Odor Description</td>
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<td>Water Solubility</td>
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<td>Flammability</td>
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<td>Flash Point Symbol</td>
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<td>N.A.</td>
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<td>Viscosity</td>
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<tr>
<td>Lower Explosion Level</td>
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<tr>
<td>Upper Explosion Level</td>
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<tr>
<td>Melting Point</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Freezing Point</td>
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<tr>
<td>Low Boiling Point</td>
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<tr>
<td>High Boiling Point</td>
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<tr>
<td>Decomposition Pt</td>
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<tr>
<td>Auto Ignition Temp</td>
<td>N.A.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Slower than ether</td>
</tr>
</tbody>
</table>

SECTION 10) STABILITY AND REACTIVITY

Stability:

Stable.

Conditions to Avoid:

High temperatures.

Incompatible Materials:
Hazardous Reactions/Polymerization:
Will not occur.

Hazardous Decomposition Products:
In fire, will decompose to carbon dioxide, carbon monoxide.

SECTION 11) TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:
Overexposure will cause defatting of skin.

Serious Eye Damage/Irritation:
Overexposure will cause redness and burning sensation.
Causes serious eye damage

Carcinogenicity:
No data available

Germ Cell Mutagenicity:
No data available

Reproductive Toxicity:
No data available

Respiratory/Skin Sensitization:
No data available

Specific Target Organ Toxicity - Single Exposure:
No data available

Specific Target Organ Toxicity - Repeated Exposure:
No data available

Aspiration Hazard:
No data available

Acute Toxicity:
Inhalation: effect of overexposure include irritation of respiratory tract, headache, dizziness, nausea, and loss of coordination. Extreme overexposure may result in unconsciousness and possibly death.

0000141-43-5 ETHANOLAMINE
LD50 (oral, rat): 1720 mg/kg (10); 2100 mg/kg (3); 2740 mg/kg (3,8)
LD50 (oral, mouse): 700 mg/kg (10)
LD50 (oral, guinea pig): 620 mg/kg (10)
LD50 (oral, rabbit): 1000 mg/kg (10)
LD50 (dermal, rabbit): 1018 mg/kg (cited as 1 mL/kg) (10)

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
LC50 (female rat): 450 ppm (4-hour exposure) (2)
LC50 (male rat): 486 ppm (4-hour exposure) (2)
LD50 (oral, male weanling rat): 3000 mg/kg (1)
LD50 (oral, 6-week old male rat): 2400 mg/kg (1)
LD50 (oral, yearling male rat): 560 mg/kg (1)
LD50 (oral, female rat): 530 mg/kg; 2500 mg/kg (1); LD50 (oral, male mouse): 1230 mg/kg (1)
LD50 (oral, rabbit): 320 mg/kg (1)
LD50 (dermal, male rabbit): 406 mg/kg (cited as 0.45 mL/kg) (1)

Potential Health Effects - Miscellaneous

0000111-76-2 ETHYLENE GLYCOL MONOBUTYL ETHER
Can be absorbed through the skin in harmful amounts. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

SECTION 12) ECOLOGICAL INFORMATION

Toxicity:
SECTION 13) DISPOSAL CONSIDERATIONS

Water Disposal:

Under RCRA, it is the responsibility of the user of the product, to determine the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws.

Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14) TRANSPORT INFORMATION

U.S. DOT Information:
Consumer Commodity, ORM-D

IMDG Information:
Consumer Commodity, ORM-D

IATA Information:
Consumer Commodity, ORM-D

SECTION 15) REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>CAS</th>
<th>Chemical Name</th>
<th>% By Weight</th>
<th>Regulation List</th>
</tr>
</thead>
<tbody>
<tr>
<td>0000110-71-4</td>
<td>ETHYLENE GLYCOL DIMETHYL ETHER</td>
<td>9% - 20%</td>
<td>CERCLA,HAPS,SARA312,SARA313,VOC,TSCA</td>
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<td>0000111-76-2</td>
<td>ETHYLENE GLYCOL MONOBUTYL ETHER</td>
<td>7% - 15%</td>
<td>CERCLA,SARA312,SARA313,VOC,TSCA,ACGIH,OSHA</td>
</tr>
<tr>
<td>0000141-43-5</td>
<td>ETHANOLAMINE</td>
<td>3% - 6%</td>
<td>SARA312,VOC,TSCA,ACGIH,OSHA</td>
</tr>
<tr>
<td>0007732-18-5</td>
<td>WATER</td>
<td>43% - 76%</td>
<td>TSCA</td>
</tr>
</tbody>
</table>

SECTION 16) OTHER INFORMATION

Glossary:

* There are points of differences between OSHA GHS and UN GHS. In 90% of the categories, they can be used interchangeably, but for the Skin Corrosion/Irritant Category and the Specific Target Organ Toxicity (Single and Repeated Exposure) Categories. In these cases, our system will say UN GHS.

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.
DISCLAIMER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : A00141 MST STNLS STL CLNR/PLSH 20net15
Material number : 000000000001001541

Manufacturer or supplier's details
Company : Zep Inc.
Address : 1310 Seaboard Industrial Blvd., NW
          Atlanta, GA 30318
Telephone : 404-352-1680

Emergency telephone numbers
For SDS Information : Compliance Services 1-877-428-9937
For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded
For a Transportation Emergency : CHEMTREC: 800-424-9300 - All Calls Recorded.
                                In the District of Columbia 202-483-7616

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Aerosol containing a liquefied gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>clear</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

GHS Classification

<table>
<thead>
<tr>
<th>Flammable aerosols</th>
<th>Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases under pressure</td>
<td>Liquefied gas</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.
                   H280 Contains gas under pressure; may explode if heated.
                   H315 Causes skin irritation.
                   H317 May cause an allergic skin reaction.

Precautionary statements : Prevention:
                          P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
                          P211 Do not spray on an open flame or other ignition source.
                          P251 Pressurized container: Do not pierce or burn, even after
use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Storage:
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Potential Health Effects

Carcinogenicity:
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
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light (Vapour and gas)</td>
<td>64742-47-8</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>citral</td>
<td>5392-40-5</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
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: 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. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. If in eyes, rinse with water for 15 minutes.

If swallowed: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. DO NOT induce vomiting unless directed to do so by a physician or poison control center.

SECTION 5. FIREFIGHTING MEASURES

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

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

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: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

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 vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
- Avoid exposure - obtain special instructions before use.
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Take precautionary measures against static discharges.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Open drum carefully as content may be under pressure.
- Dispose of rinse water in accordance with local and national regulations.
- Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Always replace cap after use.
- Do not breathe vapours or spray mist.

Conditions for safe storage:
- BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
- No smoking.
- Keep in a dry, cool and well-ventilated place.
- Observe label precautions.
- Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid:
- Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>TWA (Mist)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Inhalable fraction)</td>
<td>5 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light (Vapour and gas)</td>
<td>64742-47-8</td>
<td>TWA</td>
<td>500 ppm 2,000 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,600 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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

Eye protection: Safety glasses
Ensure that eyewash stations and safety showers are close to the workstation location.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Aerosol containing a liquefied gas
## SAFETY DATA SHEET

### A00141 MST STNLS STL CLNR/PLSH20net15

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>clear</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>no data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Extremely flammable aerosol.</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>4,136 hPa (21 °C)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>no data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.856 g/cm³</td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>not determined</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>no data available</td>
</tr>
<tr>
<td>Heat of combustion</td>
<td>46.27 kJ/g</td>
</tr>
</tbody>
</table>

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Stable

**Chemical stability** : Stable under normal conditions.

**Possibility of hazardous reactions** : No decomposition if stored and applied as directed. Vapours may form explosive mixture with air.

**Conditions to avoid** : Heat, flames and sparks. Extremes of temperature and direct sunlight.

**Incompatible materials** : Strong oxidizing agents

**Hazardous decomposition** : Carbon oxides
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

Skin corrosion/irritation
   **Product:**
   Remarks: Irritating to skin.

Serious eye damage/eye irritation
   **Product:**
   Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitisation
   **Product:**
   Remarks: Causes sensitisation.

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available
   - Distillates (petroleum), hydrotreated heavy naphthenic:
   - Distillates (petroleum), hydrotreated light (Vapour and gas):
     - propane:
     - butane:
     - citral:

STOT - single exposure
no data available

STOT - repeated exposure
no data available

Aspiration toxicity
no data available

Further information
   **Product:**
   Remarks: no data available

Components:
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

citral:

Partition coefficient: n-octanol/water

Pow: 2.76

Mobility in soil

no data available

Other adverse effects

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

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

Components:

Distillates (petroleum), hydrotreated light (Vapour and gas):

Additional ecological information: no data available

SECTION 13. DISPOSAL CONSIDERATIONS


SAFETY DATA SHEET

A00141 MST STNLS STL CLNR/PLSH 20net15

Version 1.1  Revision Date 02/18/2015  Print Date 06/29/2015

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.

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, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air):
UN1950, Aerosols, flammable, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):
UN1950, AEROSOLS, 2.1, - Limited quantity

SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Sudden Release of Pressure Hazard
Acute Health Hazard
Fire Hazard

SARA 302 : 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 State of California to cause cancer, birth defects, or any other reproductive harm.

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), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

NFPA:

Flammability

- Health: 3
- Flammability: 4
- Instability: 0

Special hazard.

HMIS III:

- HEALTH: 3
- FLAMMABILITY: 4
- PHYSICAL HAZARD: 2

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

OSHA GHS Label Information:

Hazard pictograms:

- Danger: Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction.

Precautionary statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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

Disposal: Dispose of contents/container in accordance with local regulation.

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.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : A00135 MST FURN PLSH FOR METAL 20net18
Material number : 000000000001001520

Manufacturer or supplier's details
Company : Zep Inc.
Address : 1310 Seaboard Industrial Blvd., NW
Atlanta, GA 30318
Telephone : 404-352-1680

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For SDS Information : Compliance Services 1-877-428-9937
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<tr>
<th>Appearance</th>
<th>Aerosol containing a liquefied gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>light cream</td>
</tr>
<tr>
<td>Odour</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

GHS Classification

<table>
<thead>
<tr>
<th>Flammable aerosols</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases under pressure</td>
<td>Liquefied gas</td>
</tr>
<tr>
<td>Skin irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitisation</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

GHS Label element

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>![Flammable Hazard]</td>
</tr>
</tbody>
</table>

Signal word : Warning

Hazard statements : H223 Flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

Precautionary statements : Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after
use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves.
Response:
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
Storage:
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Potential Health Effects

Carcinogenicity:
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
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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

Hazardous components

<table>
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<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light (Vapour and gas)</td>
<td>64742-47-8</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>8052-41-3</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
<tr>
<td>citral</td>
<td>5392-40-5</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

General advice : Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled : If unconscious place in recovery position and seek medical
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

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

Unsuitable extinguishing media: High volume water jet

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products: Carbon dioxide (CO2)
Carbon monoxide
Smoke
Silicon oxides

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

Further information: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

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 vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental precautions

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage

BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.
No smoking.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid

Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light (Vapour and gas)</td>
<td>64742-47-8</td>
<td>TWA</td>
<td>500 ppm 2,000 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 1,600 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>propane</td>
<td>74-98-6</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

A00135 MST FURN PLSH FOR METAL 20net18

Version 1.0   Revision Date 02/17/2015   Print Date 06/29/2015

<table>
<thead>
<tr>
<th>Substance</th>
<th>Exposure Value</th>
<th>Exposure Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>butane</td>
<td>TWA 106-97-8</td>
<td>800 ppm 1,900 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m3</td>
</tr>
<tr>
<td>Stoddard solvent</td>
<td>TWA 8052-41-3</td>
<td>100 ppm 2,900 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>350 mg/m3 1,800 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,800 mg/m3 1,800 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,800 mg/m3 1,800 mg/m3</td>
</tr>
</tbody>
</table>

**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**: 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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**: Aerosol containing a liquefied gas

**Colour**: light cream

**Odour**: characteristic

**Odour Threshold**: no data available

**pH**: no data available

**Melting point/freezing point**: no data available

**Boiling point**: no data available

**Flash point**: no data available

**Evaporation rate**: no data available

**Upper explosion limit**: no data available

**Lower explosion limit**: no data available

1,800 mg/m3

TWA 1,000 ppm

1,800 mg/m3

OSHA P0

800 ppm

1,900 mg/m3

NIOSH REL

500 ppm

2,900 mg/m3

OSHA Z-1

100 ppm

525 mg/m3

OSHA P0
 SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No decomposition if stored and applied as directed.
Vapours may form explosive mixture with air.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : Carbon dioxide (CO2)

 SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
no data available

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 sensitisation

**Product:**
Remarks: Causes sensitisation.

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available

**Distillates (petroleum), hydrotreated light (Vapour and gas):**
- propane
- butane
- Stoddard solvent
- citral

**STOT - single exposure**
no data available

**STOT - repeated exposure**
no data available

Aspiration toxicity
no data available

Further information

**Product:**
Remarks: no data available

**Components:**
**Distillates (petroleum), hydrotreated light (Vapour and gas):**
Remarks: no data available

---

**SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

no data available

**Persistence and degradability**

no data available

Bioaccumulative potential

**Product:**
Partition coefficient: n-
Remarks: no data available
octanol/water
Components:
butane:
Partition coefficient: n-octanol/water: Pow: 2.89
citral:
Partition coefficient: n-octanol/water: Pow: 2.76

Mobility in soil
no data available

Other adverse effects
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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

Components:
Distillates (petroleum), hydrotreated light (Vapour and gas):

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.
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):
SECTION 15. REGULATORY INFORMATION

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

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*: 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: Fire Hazard
SARA 311/312 Hazards: Sudden Release of Pressure Hazard
SARA 311/312 Hazards: Acute Health 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: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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
SECTION 16. OTHER INFORMATION

Further information

NFPA:

Flammability

Health 3

3

Instability 0

Special hazard.

HMIS III:

HEALTH 3

PHYSICAL HAZARD 2

FLAMMABILITY 3

Health

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High

4 = Extreme, * = Chronic

OSHA GHS Label Information:

Hazard pictograms:

Flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction.

Signal word: Warning

Hazard statements:

Precautionary statements:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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

Disposal: Dispose of contents/container in accordance with local regulation.

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.
Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.
1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ENCAP General Spotter
GENERAL USE: Remove red stains and other spots from carpets.
PRODUCT DESCRIPTION: Red Stain Carpet Spot Remover
CHEMICAL FAMILY: Detergent blend

DISTRIBUTOR
Pro Link, Inc.
500 Chapman Street
Canton, MA 02021
Customer Service: 781-828-9550

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS
Health:
- Eye Irritation, Category 2A
- Skin Irritation, Category 2

GHS LABEL
![Exclamation mark]

SIGNAL WORD: WARNING

HAZARD STATEMENTS
- H319: Causes serious eye irritation.
- H315: Causes skin irritation.
- H303: May be harmful if swallowed.

PRECAUTIONARY STATEMENT(S)

Prevention:
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P262: Do not get in eyes, on skin, or on clothing.
- P264: Wash hands thoroughly after handling.
- P102: Keep out of reach of children.

Response:
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:
- P404: Store in a closed container.
Disposal:
P501: Dispose of contents/container according to all local, state and Federal regulations.

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear Liquid

IMMEDIATE CONCERNS: Eye & Skin irritant

POTENTIAL HEALTH EFFECTS

EYES: Contact causes severe eye irritation.

SKIN: Contact may cause moderate to severe irritation.

SKIN ABSORPTION: None Expected.

INGESTION: Although of moderate to low toxicity, ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea, and possible death.

INHALATION: Mist is irritating to nose, throat and lungs.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS: None known.

Carcinogenicity: No listed substance

MUTAGENICITY: None known.

MEDICAL CONDITIONS AGGRAVATED: Previous skin conditions such as dermatitis may be aggrevated.

ROUTES OF ENTRY: Eye, skin, ingestion.

CANCER STATEMENT: None

WARNING CAUTION LABELS: Irritant

PHYSICAL HAZARDS: None Expected.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Salt benzene, 1, 1-oxybis tetrapropylene derivatives, Sulfonated, Sodium Salts</td>
<td>0 - 5</td>
<td>119345-04-9</td>
</tr>
<tr>
<td>Acrylate Copolymer</td>
<td>5 - 10</td>
<td>N/A</td>
</tr>
<tr>
<td>Sodium Thiosulfate</td>
<td>0 - 1</td>
<td>7772-98-7</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>0 - 1</td>
<td>34590-94-8</td>
</tr>
<tr>
<td>Fragrance</td>
<td>0 - 1</td>
<td>N/A</td>
</tr>
<tr>
<td>Water</td>
<td>80 - 85</td>
<td>7732-18-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

INHALATION: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Burning sensation with tearing, redness.

SKIN: Burning sensation, redness.

SKIN ABSORPTION: Not Established

INGESTION: Irritation of mouth, throat, along with stomach upset, vomiting.

INHALATION: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

ACUTE TOXICITY: Severely irritating to eyes. Causes moderate to severe skin irritation. Harmful if swallowed.
5. FIRE FIGHTING MEASURES

**FLAMMABLE CLASS:** NA = Not Applicable

**GENERAL HAZARD:** NA = Not Applicable

**EXTINGUISHING MEDIA:** Not required. Water based material.

6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Avoid walking in product. Wipe up or otherwise flush small spills to sanitary sewer.

**LARGE SPILL:** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

**ENVIRONMENTAL PRECAUTIONS**

- **WATER SPILL:** Avoid discharges into open waterways.
- **LAND SPILL:** Avoid discharge to soil.

**GENERAL PROCEDURES:** Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

**SPECIAL PROTECTIVE EQUIPMENT:** Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Close container after use.

**HANDLING:** Wear eye protection, rubber gloves when handling concentrate.

**STORAGE:** Store in area inaccessible to children.

**STORAGE TEMPERATURE:** Store at ambient temperatures.

**STORAGE PRESSURE:** Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES**

<table>
<thead>
<tr>
<th>OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)</th>
<th>EXPOSURE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA PEL</td>
</tr>
<tr>
<td></td>
<td>ppm</td>
</tr>
<tr>
<td></td>
<td>ppm</td>
</tr>
<tr>
<td>Chemical Name</td>
<td></td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td></td>
</tr>
<tr>
<td>TWA</td>
<td>100</td>
</tr>
<tr>
<td>STEL</td>
<td>150</td>
</tr>
</tbody>
</table>

**ENGINEERING CONTROLS:** Use in well ventilated area.

**PERSONAL PROTECTIVE EQUIPMENT**

- **EYES AND FACE:** Chemical splash goggles.
- **SKIN:** Rubber or other chemical resistant gloves.
- **RESPIRATORY:** A respirator is not needed under normal and intended conditions of product use.
- **PROTECTIVE CLOTHING:** Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

**WORK HYGIENIC PRACTICES:** Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Lavender

**COLOR:** Water Clear

**pH:** 8.5 to 9.5
PERCENT VOLATILE: >90
FLASH POINT AND METHOD: None
FLAMMABLE LIMITS: N/A to N/A
AUTOIGNITION TEMPERATURE: NA = Not Applicable
VAPOR PRESSURE: ≤ 20 mm Hg at 20°C (68°F)
VAPOR DENSITY: ≤ 1 Air = 1
BOILING POINT: 212°F; 100°C
FREEZING POINT: 32°F; 0°C
MELTING POINT: Not Available
SOLUBILITY IN WATER: Complete
EVAPORATION RATE: (Water =1) 1.0
DENSITY: 8.79 at (68°F)
SPECIFIC GRAVITY: 1.053 grams/ml.
VISCOSITY: Water thin.
(VOC): < 1.000 % by weight

10. STABILITY AND REACTIVITY

REACTIVITY: Stable
HAZARDOUS POLYMERIZATION: No
STABILITY: Stable under normal storage and use conditions.
CONDITIONS TO AVOID: Not Established
POSSIBILITY OF HAZARDOUS REACTIONS: None Expected.
HAZARDOUS DECOMPOSITION PRODUCTS: None known.
INCOMPATIBLE MATERIALS: Strong acids, oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ORAL LD₅₀ (rat)</th>
<th>DERMAL LD₅₀ (rabbit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Salt benzene, 1, 1-oxybis tetrapropylene derivatives, Sulfonated, Sodium Salts</td>
<td>&gt; 2000 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>&gt; 5000 mg/kg (rat)</td>
<td>9510 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

EYES: Not Established
DERMAL LD₅₀: Not Established
SKIN ABSORPTION: None Expected.
ORAL LD₅₀: Not Established
INHALATION LC₅₀: Not Established
EYE EFFECTS: Moderate to severe eye irritant.
SKIN EFFECTS: Moderate skin irritant.
CARCINOGENICITY
IARC: No listed substance
IRRITATION: Irritant
SENSITIZATION: No known significant effects or critical hazards.
GENETIC EFFECTS: No known significant effects or critical hazards.
REPRODUCTIVE EFFECTS: No known significant effects or critical hazards.
MUTAGENICITY: No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION
ENVIRONMENTAL DATA: Not Established
ECOTOXICOLOGICAL INFORMATION: Not Established
AQUATIC TOXICITY (ACUTE): Not Established

13. DISPOSAL CONSIDERATIONS
DISPOSAL METHOD: Small amounts (less than 5 gallons) may be disposed of in sanitary sewer. Consult local authorities for additional disposal information.
FOR LARGE SPILLS: Consult with local and state authorities for large volume disposal.
PRODUCT DISPOSAL: See above.
EMPTY CONTAINER: Rinse container with clear water. Offer container for recycling, or dispose of in trash.
RCRA/EPA WASTE INFORMATION: NA = Not Applicable

14. TRANSPORT INFORMATION
DOT (DEPARTMENT OF TRANSPORTATION)
   PROPER SHIPPING NAME: Cleaning Compound, not regulated.
ROAD AND RAIL (ADR/RID)
   PROPER SHIPPING NAME: Cleaning Compound, not regulated.
AIR (ICAO/IATA)
   SHIPPING NAME: Cleaning Compound, not regulated.
VESSEL (IMO/IMDG)
   SHIPPING NAME: Cleaning Compound, not regulated.

15. REGULATORY INFORMATION
UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)
   311/312 HAZARD CATEGORIES: Health - Acute
   FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No
   313 REPORTABLE INGREDIENTS: None
   302/304 EMERGENCY PLANNING
   EMERGENCY PLAN: NA = Not Applicable
CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
   CERCLA REGULATORY: NA = Not Applicable
TSCA (TOXIC SUBSTANCE CONTROL ACT)
   TSCA REGULATORY: All ingredients are listed on the TSCA Chemical Inventory.
STATES WITH SPECIAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Requirements</th>
</tr>
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<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>Massachusetts Right to Know Substance</td>
</tr>
<tr>
<td></td>
<td>New Jersey Right To Know Substance</td>
</tr>
<tr>
<td></td>
<td>Pennsylvania Right to Know Substance</td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65: None
CARCINOGEN: No listed substance
16. OTHER INFORMATION

PREPARED BY: Regulatory Affairs Department  Date Prepared: 05/15/2015

HMIS RATING

<table>
<thead>
<tr>
<th>Category</th>
<th>Rating</th>
</tr>
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<tbody>
<tr>
<td>HEALTH</td>
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<tr>
<td>FLAMMABILITY</td>
<td>0</td>
</tr>
<tr>
<td>PHYSICAL HAZARD</td>
<td>0</td>
</tr>
<tr>
<td>PERSONAL PROTECTION</td>
<td>B</td>
</tr>
</tbody>
</table>

NFPA CODES

<table>
<thead>
<tr>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

MANUFACTURER DISCLAIMER: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.
### SECTION 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>Big D Non-Para Block, Evergreen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Means of Identification</td>
<td>064400, 065900, 066000, 067000, 068000, B0464405 &amp; B0468005</td>
</tr>
<tr>
<td>Other Identification</td>
<td>Non-Para Block, Evergreen</td>
</tr>
<tr>
<td>Product Family</td>
<td>Restroom Deodorants</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Urinal Blocks.</td>
</tr>
<tr>
<td>Restrictions on Use</td>
<td>None known.</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com</td>
</tr>
<tr>
<td>Supplier</td>
<td>Big D Industries, Inc., 5620 SW 29th St, Oklahoma City, OK, 73179, 405 682 2541, BigDInd.com</td>
</tr>
<tr>
<td>Emergency Phone No.</td>
<td>Big D Industries, 800 535 5053, 24hr (Infotrac)</td>
</tr>
<tr>
<td>SDS No.</td>
<td>0363</td>
</tr>
</tbody>
</table>

### SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**
- Acute toxicity (Oral) - Category 4
- Skin corrosion/irritation - Category 2
- Serious eye damage/eye irritation - Category 1
- Skin sensitization - Category 1

**GHS Label Elements**

**Signal Word:** Danger

**Hazard Statement(s):**
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.

**Precautionary Statement(s):**

**Prevention:**
- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P264 Wash hands and skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves.
- P280 Wear eye protection/face protection.
Response:
P301 + P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P302 + P352 IF ON SKIN: Wash with plenty of 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.
P310 Immediately call a POISON CENTRE/doctor.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse.

Storage:
P401 Store in accordance with local, regional, national and international regulations.

Disposal:
P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Other Hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C16-18, ethoxylated, solids</td>
<td>68439-49-6</td>
<td>51.55</td>
<td></td>
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<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>31.27</td>
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<tr>
<td>Fatty acids, tallow, sodium salts</td>
<td>8052-48-0</td>
<td>12.52</td>
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<tr>
<td>Other components below reportable Levels</td>
<td>No CAS</td>
<td>1.50</td>
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<tr>
<td>Precipitated silica</td>
<td>112926-00-8</td>
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<tr>
<td>Acetic acid, (4-tert-butylcyclohexyl) ester</td>
<td>32210-23-4</td>
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<tr>
<td>CEDARWOOD OIL</td>
<td>8000-27-9</td>
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<tr>
<td>3-Methyl-3-phenylglycidic acid ethyl ester</td>
<td>77-83-8</td>
<td>0.29</td>
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<tr>
<td>2-Phenylethanol</td>
<td>60-12-8</td>
<td>0.21</td>
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<tr>
<td>Salicylic acid, isopentyl ester</td>
<td>87-20-7</td>
<td>0.18</td>
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<td>Cinnamaldehyde, alpha-hexyl-</td>
<td>101-86-0</td>
<td>0.17</td>
<td></td>
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<td>6-Octen-1-ol, 3,7-dimethyl-</td>
<td>106-22-9</td>
<td>0.13</td>
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<tr>
<td>Live Bacterial Cultures</td>
<td>No CAS</td>
<td>&lt;0.10</td>
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</tr>
<tr>
<td>Benzyl acetate</td>
<td>140-11-4</td>
<td>0.10</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Skin Contact
Rinse with lukewarm, gently flowing water for 5 minutes.

Eye Contact
Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

Product Identifier: Big D Non-Para Block, Evergreen
SDS No.: 0363
Date of Preparation: March 13, 2015
Ingestion
Call a Poison Centre or doctor if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed
If on skin:
May cause mild irritation.
If in eyes:
May cause mild irritation.
If swallowed:
Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Immediate Medical Attention and Special Treatment
Special Instructions
Not applicable.
Medical Conditions Aggravated by Exposure
None known.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Not combustible. Use extinguishing agent suitable for surrounding fire.
Unsuitable Extinguishing Media
None known.

Specific Hazards Arising from the Chemical
Does not burn.
This product presents no unusual hazards in a fire situation.
Very toxic carbon monoxide, carbon dioxide.

Special Protective Equipment and Precautions for Fire-fighters
No special precautions are necessary.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
No special precautions are necessary.

Environmental Precautions
It is good practice to prevent releases into the environment.

Methods and Materials for Containment and Cleaning Up
No special clean-up methods are necessary.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
No special handling precautions are necessary.

Conditions for Safe Storage
Store in an area that is: temperature-controlled, dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Product Identifier: Big D Non-Para Block, Evergreen
SDS No.: 0363
Date of Preparation: March 13, 2015
Control Parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV®</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
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<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
<td>TWA</td>
</tr>
<tr>
<td>Precipitated silica</td>
<td>3 mg/m³</td>
<td></td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Benzyl acetate</td>
<td>10 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. OSHA = US Occupational Safety and Health Administration.

Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate.

Individual Protection Measures

- **Eye/Face Protection**
  - Not required but it is good practice to wear safety glasses or chemical safety goggles.
- **Skin Protection**
  - Not required, if used as directed.
- **Respiratory Protection**
  - Not normally required if product is used as directed.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Basic Physical and Chemical Properties**

- **Appearance**
  - Blue. Particle Size: Not available
- **Odour**
  - Fragrant (Fragrance)
- **Odour Threshold**
  - Not available
- **pH**
  - Not available
- **Melting Point/Freezing Point**
  - Not available (melting); Not available (freezing)
- **Initial Boiling Point/Range**
  - Not available
- **Flash Point**
  - Not applicable
- **Evaporation Rate**
  - Not applicable
- **Flammability (solid, gas)**
  - Not available
- **Upper/Lower Flammability or Explosive Limit**
  - Not applicable (upper); Not applicable (lower)
- **Vapour Pressure**
  - Not available
- **Vapour Density (air = 1)**
  - Not available
- **Relative Density (water = 1)**
  - > 1 at 20 ºC
- **Solubility**
  - Not available in water; Not available (in other liquids)
- **Partition Coefficient, n-Octanol/Water (Log Kow)**
  - Not available
- **Auto-ignition Temperature**
  - Not available
- **Decomposition Temperature**
  - Not available
- **Viscosity**
  - Not applicable (kinematic)

**Other Information**

- **Physical State**
  - Solid
- **Molecular Formula**
  - Not applicable
- **Molecular Weight**
  - Not applicable
- **Bulk Density**
  - Not available
- **Surface Tension**
  - Not applicable
- **Critical Temperature**
  - Not available
SECTION 10. STABILITY AND REACTIVITY

Reactivity
None known.

Chemical Stability
Normally stable.

Possibility of Hazardous Reactions
None known.

Conditions to Avoid
None known.

Incompatible Materials
None known.

Hazardous Decomposition Products
None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure
Skin contact; eye contact; ingestion.

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50</th>
<th>LD50 (oral)</th>
<th>LD50 (dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium sulfate</td>
<td></td>
<td>5989 mg/kg (mouse)</td>
<td></td>
</tr>
<tr>
<td>Precipitated silica</td>
<td>&gt; 10000 mg/kg (rat)</td>
<td>&gt; 5000 mg/kg (rabbit)</td>
<td></td>
</tr>
<tr>
<td>2-Phenylethanol</td>
<td></td>
<td>400 mg/kg (guinea pig)</td>
<td>5 mg/kg (guinea pig)</td>
</tr>
<tr>
<td>Benzyl acetate</td>
<td></td>
<td>830 mg/kg (mouse)</td>
<td>&gt; 5000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation
There is limited evidence of mild irritation.

Serious Eye Damage/Irritation
There is limited evidence of mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation
No information was located.

Skin Absorption
No information was located.

Ingestion
No information was located.

Symptoms may include nausea, vomiting, stomach cramps and diarrhea.

Aspiration Hazard
No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure
No information was located.

Respiratory and/or Skin Sensitization
No information was located.
Carcinogenicity
Not specifically listed.
No information was located.

Reproductive Toxicity
Development of Offspring
No information was located.

Sexual Function and Fertility
No information was located.

Effects on or via Lactation
No information was located.

Germ Cell Mutagenicity
No information was located.

Interactive Effects
No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Persistence and Degradability
No information was located.

Bioaccumulative Potential
No information was located.

Mobility in Soil
No information was located.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

SECTION 14. TRANSPORT INFORMATION


Special Precautions for User
Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS Classification

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

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
All ingredients are listed on the DSL or are not required to be listed.

CEPA - National Pollutant Release Inventory (NPRI)
Part 1A. (Poly(oxy-1,2-ethanediyl)-, alpha-(4-nonylphenyl)-omega-hydroxy-, branched)

USA
Toxic Substances Control Act (TSCA) Section 8(b)
All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.
Additional USA Regulatory Lists
New Jersey Right To Know. (Benzyl acetate) 1-Phenylethanol (CAS 98-85-1).

SECTION 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Rating</th>
<th>Health - 1</th>
<th>Flammability - 0</th>
<th>Instability - 0</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS Prepared By</td>
<td>Wayne Hegstrom</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phone No.</td>
<td>405 682 2541</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of Preparation</td>
<td>March 13, 2015</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revision Indicators</td>
<td>Not applicable.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Product Identifier: Big D Non-Para Block, Evergreen
SDS No.: 0363
Date of Preparation: March 13, 2015
1. Identification

Product number 1000001197
Product identifier BED BUG, LICE AND DUST MITE SPRAY
Company information Claire Manufacturing Co.
1005 S. Westgate Drive
Addison, IL 60101 United States
Company phone General Assistance 1-630-543-7600
Emergency telephone US 1-866-836-8855
Emergency telephone outside US 1-952-852-4646
Version # 01
Recommended use Pesticide
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1
Health hazards Sensitization, skin Category 1
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Signal word Danger
Hazard statement Extremely flammable aerosol. May be fatal if swallowed and enters airways. May cause an allergic skin reaction.
Precautionary statement
Prevention 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. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. Specific treatment (see this label). Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Collect spillage.
Storage Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixture

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light</td>
<td></td>
<td>64742-47-8</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Butane</td>
<td></td>
<td>106-97-8</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td>74-98-6</td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>

Product name: BED BUG, LICE AND DUST MITE SPRAY
Product #: 1000001197 Version #: 01 Issue date: 05-14-2015
## 4. First-aid measures

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

### Skin contact
Get medical attention if irritation develops or persists. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

### Eye contact
After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.

### Ingestion
Call a physician or Poison Control Center immediately. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If ingestion of a large amount does occur, seek medical attention. Do not give milk, alcoholic beverages or castor oil.

### Most important symptoms/effects, acute and delayed
Dermatitis. Aspiration may cause pulmonary edema and pneumonitis. Rash. May cause an allergic skin reaction.

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

### General information
If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

### Suitable extinguishing media
Powder. Alcohol resistant foam. Dry chemicals. 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.

### 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. Structural firefighters protective clothing will only provide limited protection.

### Fire-fighting equipment/instructions
Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. 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. Some of these materials, if spilled, may evaporate leaving a flammable residue.

### 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. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. 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. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Will ignite if exposed to intensive heat or open air. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Avoid breathing gas. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

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 in a well-ventilated place. Refrigeration recommended. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS). Level 1 Aerosol (NFPA 30B)

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane (CAS 74-98-6)</td>
<td>PEL</td>
<td>1800 mg/m3</td>
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<tr>
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<td>1000 ppm</td>
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</table>

US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
<td>STEL</td>
<td>1000 ppm</td>
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</tbody>
</table>

US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane (CAS 106-97-8)</td>
<td>TWA</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>800 ppm</td>
</tr>
<tr>
<td>Propane (CAS 74-98-6)</td>
<td>TWA</td>
<td>1800 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>

Biological limit values

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

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

Face shield is recommended. Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

Hand protection

Wear appropriate chemical resistant gloves.

Skin protection

Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Avoid contact with the skin. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Chemical resistant gloves. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

Thermal hazards
Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations
When using do not smoke. Avoid contact with eyes. Avoid contact with skin. 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.

9. Physical and chemical properties

Appearance
- Physical state: Gas.
- Form: Aerosol.
- Color: White.
- Odor: None known.
- Odor threshold: Not available.
- pH: Not available.
- Melting point/freezing point: Not available.
- Initial boiling point and boiling range: Not available.
- Flash point: -156.0 °F (-104.4 °C) Propellant estimated
- Evaporation rate: Not available.
- Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits
- Flammability limit - lower (%): 1.9 % estimated
- Flammability limit - upper (%): 9.5 % estimated
- Explosive limit - lower (%): Not available.
- Explosive limit - upper (%): Not available.

Vapor pressure: 70 - 85 psig @70F estimated
Vapor density: Not available.
Relative density: Not available.
Solubility(ies)
- Solubility (water): Not available.
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

Other information
- Specific gravity: 0.863 estimated

10. Stability and reactivity

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

Chemical stability
Risk of ignition.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Conditions to avoid
Exposure to air. Heat, flames and sparks. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials.

Incompatible materials
11. Toxicological information

Information on likely routes of exposure

**Ingestion**
Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Inhalation**
Not available.

**Skin contact**
May cause an allergic skin reaction.

**Eye contact**
Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics**
Dermatitis. Aspiration may cause pulmonary edema and pneumonitis. Rash. Direct contact with eyes may cause temporary irritation. May cause an allergic skin reaction.

**Information on toxicological effects**

**Acute toxicity**
Acute LD50: 12479 mg/kg, Rat, Dermal
Acute LC50: 32 mg/l/4h, Rat, Inhalation
May be fatal if swallowed and enters airways. May cause an allergic skin reaction.

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BED BUG, LICE AND DUST MITE SPRAY (CAS Mixture)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
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</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>LD50</td>
<td>12479 mg/kg</td>
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<tr>
<td><strong>Inhalation</strong></td>
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<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td>LC50</td>
<td>32 mg/l/4h</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Test Results</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Butane (CAS 106-97-8)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
</tr>
<tr>
<td>LC50</td>
<td>1237 mg/l, 120 Minutes</td>
</tr>
<tr>
<td></td>
<td>52 %, 120 Minutes</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>1355 mg/l</td>
</tr>
<tr>
<td><strong>Distillates (Petroleum), Hydrotreated Light (CAS 64742-47-8)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>&gt; 2000 mg/kg, 24 Hours</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Rat</td>
</tr>
<tr>
<td>LC50</td>
<td>&gt; 7.5 mg/l, 6 Hours</td>
</tr>
<tr>
<td></td>
<td>&gt; 4.6 mg/l, 4 Hours</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rat</td>
</tr>
<tr>
<td>LD50</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td><strong>Propane (CAS 74-98-6)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td>Mouse</td>
</tr>
<tr>
<td>LC50</td>
<td>1237 mg/l, 120 Minutes</td>
</tr>
<tr>
<td></td>
<td>52 %, 120 Minutes</td>
</tr>
<tr>
<td></td>
<td>Rat</td>
</tr>
<tr>
<td></td>
<td>1355 mg/l</td>
</tr>
<tr>
<td></td>
<td>658 mg/l/4h</td>
</tr>
<tr>
<td><strong>White Mineral Oil (CAS 8042-47-5)</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dermal</strong></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
</tr>
<tr>
<td>LD50</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>&gt; 2000 mg/kg, 24 Hours</td>
</tr>
<tr>
<td>Components</td>
<td>Species</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Rat</td>
</tr>
<tr>
<td><strong>Oral</strong></td>
<td>Rat</td>
</tr>
</tbody>
</table>

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

**Skin corrosion/irritation**
Not expected to be hazardous by OSHA criteria.

**Serious eye damage/eye irritation**
Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**
- **Respiratory sensitization**
  Not available.
- **Skin sensitization**
  May cause an allergic skin reaction.

**Germ cell mutagenicity**
Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.

**Carcinogenicity**
Not expected to be hazardous by WHMIS criteria. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**
- Permethrin (CAS 52645-53-1) 3 Not classifiable as to carcinogenicity to humans.

Not listed.

**Reproductive toxicity**
Not expected to be hazardous by OSHA criteria. Not expected to be hazardous by WHMIS criteria.

**Specific target organ toxicity - single exposure**
Not classified.

**Specific target organ toxicity - repeated exposure**
Not classified.

**Aspiration hazard**
May be fatal if swallowed and enters airways.

**Chronic effects**
Not expected to be hazardous by WHMIS criteria.

**Further information**
This product has no known adverse effect on human health.

12. Ecological information

**Ecotoxicity**
LC50: 280 mg/L, Fish, 96.00 Hours
Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BED BUG, LICE AND DUST MITE SPRAY (CAS Mixture)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td>Fish</td>
<td>LC50 Fish</td>
</tr>
<tr>
<td><strong>Components</strong></td>
<td>Species</td>
<td>Test Results</td>
</tr>
<tr>
<td>Distillates (Petroleum), Hydrotreated Light (CAS 64742-47-8)</td>
<td>Aquatic</td>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Permethrin (CAS 52645-53-1)</td>
<td>Aquatic</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50 Apache trout (Oncorhynchus gilae apache)</td>
</tr>
<tr>
<td>White Mineral Oil (CAS 8042-47-5)</td>
<td>Aquatic</td>
<td>Fish</td>
</tr>
</tbody>
</table>

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

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

**Bioaccumulative potential**
No data available.
Partition coefficient n-octanol / water (log Kow)

- Butane: 2.89
- Permethrin: 6.5
- 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: Consult authorities before disposal. 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. After recovery of solvent dispose of residue as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

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

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

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

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

14. Transport information

DOT

- UN number: UN1950
- UN proper shipping name: Aerosols, flammable
- Transport hazard class(es):
  - Class: 2.1
  - Subsidiary risk: -
  - Label(s): 2.1
- Packing group: Not applicable.
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Special provisions: N82
- Packaging exceptions: 306
- Packaging non bulk: None
- Packaging bulk: None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

- UN number: UN1950
- UN proper shipping name: Aerosols, flammable
- Transport hazard class(es):
  - Class: 2.1
  - Subsidiary risk: -
  - Label(s): 2.1
- Packing group: Not applicable.
- Environmental hazards: Yes
- ERG Code: 10L
- Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
- Other information
  - Passenger and cargo aircraft: Allowed.
  - Cargo aircraft only: Allowed.
  - Packaging Exceptions: LTD QTY

IMDG

- UN number: UN1950
UN proper shipping name: AEROSOLS

Transport hazard class(es):

Class: 2.1
Subsidiary risk: -
Label(s): 2.1

Packing group: Not applicable.

Environmental hazards:

Marine pollutant: Yes
EmS: F-D, S-U

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

Packaging Exceptions:
LTD QTY: Not applicable.

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

DOT

IATA; IMDG

Marine pollutant

General information: IMDG 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.

CERCLA/SARA Hazardous Substances - Not applicable.

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 - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
No

SARA 313 (TRI reporting)
Chemical name | CAS number | % by wt.
--- | --- | ---
Permethrin | 52645-53-1 | 0.1 - 1

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA)
Not regulated.

FIFRA Information
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 pesticide label also includes other important information, including directions for use.

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

US. Massachusetts RTK - Substance List
Butane (CAS 106-97-8)
Permethrin (CAS 52645-53-1)
Propane (CAS 74-98-6)

US. New Jersey Worker and Community Right-to-Know Act
Butane (CAS 106-97-8)
Permethrin (CAS 52645-53-1)
Propane (CAS 74-98-6)

US. Pennsylvania Worker and Community Right-to-Know Law
Butane (CAS 106-97-8)
Propane (CAS 74-98-6)

US. Rhode Island RTK
Butane (CAS 106-97-8)
Permethrin (CAS 52645-53-1)
Propane (CAS 74-98-6)

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

International Inventories
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>No</td>
</tr>
</tbody>
</table>

Product name: BED BUG, LICE AND DUST MITE SPRAY
Product #: 1000001197 Version #: 01 Issue date: 05-14-2015

SDS US
9 / 10
<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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

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

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

**Issue date**
05-14-2015

**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.
**SECTION 1: IDENTIFICATION**

**Product Identifier**

**Product Form:** Mixture

**Product Name:** Arm & Hammer™ Deodorizing Air Freshener

**Synonyms:** Deodorizer, Air Freshener

**Intended Use of the Product**

Air Freshener

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

**Company**

Church & Dwight

500 Charles Ewing Blvd

Ewing Township, NJ 08628

T 1-800-524-1328

www.churchdwight.com

**Emergency Telephone Number**

Emergency Number : For Medical Emergency: 1-888-234-1828, For Chemical Emergency: 1-800-424-9300 (CHEMTREC)

---

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the Substance or Mixture**

**Classification (GHS-US)**

Liquefied gas  H280

Full text of H-phrases: see section 16

**Label Elements**

**GHS-US Labeling**

**Hazard Pictograms (GHS-US)** : 

- GHS04

**Signal Word (GHS-US)** : Warning

**Hazard Statements (GHS-US)** : H280 - Contains gas under pressure; may explode if heated.

**Precautionary Statements (GHS-US)** : P410+P403 - Protect from sunlight. Store in a well-ventilated place.

**Other Hazards**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. Fragrance may cause an allergic reaction in sensitive individuals.

**Unknown Acute Toxicity (GHS-US)** Not available

---

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

**Mixture**

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>% (w/w)</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>(CAS No) 7732-18-5</td>
<td>60 - 100</td>
<td>Not classified</td>
</tr>
<tr>
<td>Petroleum gases, liquefied, sweetened</td>
<td>(CAS No) 68476-86-8</td>
<td>10 - 30</td>
<td>Simple Asphy Flam. Gas 1, H220 Compressed gas, H280</td>
</tr>
<tr>
<td>Monopotassium carbonate</td>
<td>(CAS No) 298-14-6</td>
<td>5 - 10</td>
<td>Not classified</td>
</tr>
<tr>
<td>Sodium bicarbonate</td>
<td>(CAS No) 144-55-8</td>
<td>1 - 5</td>
<td>Not classified</td>
</tr>
<tr>
<td>Ammonium hydroxide</td>
<td>(CAS No) 1336-21-6</td>
<td>&lt; 0.1</td>
<td>Acute Tox. 4 (Oral), H302</td>
</tr>
</tbody>
</table>
Arm & Hammer™ Deodorizing Air Freshener
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According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

<table>
<thead>
<tr>
<th>Skin Corr. 1B, H314</th>
<th>Eye Dam. 1, H318</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Acute 1, H400</td>
<td></td>
</tr>
</tbody>
</table>

The specific chemical identity and/or exact percentage of composition have been withheld as a trade secret [29 CFR 1910.1200]. A range of concentration as prescribed by the Controlled Products Regulations has been used where necessary, due to varying composition. Full text of H-phrases: see section 16

**SECTION 4: FIRST AID MEASURES**

**Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). If frostbite or freezing occurs, immediately flush with plenty of lukewarm water to GENTLY warm the affected area. Do not use hot water. Do not rub affected area. Get immediate medical attention.

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

**Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Contact with gas escaping the container can cause frostbite.

**Inhalation:** Fragrance within this product may cause an allergic reaction in sensitive individuals. High concentration of vapors may induce: headache, dizziness, drowsiness.

**Skin Contact:** Repeated or prolonged skin contact may cause irritation. Contact with gas escaping the container can cause frostbite and freeze burns.

**Eye Contact:** May cause slight irritation to eyes. Contact with gas escaping the container can cause frostbite, freeze burns, and permanent eye damage.

**Ingestion:** Not expected to be a primary route of exposure.

**Chronic Symptoms:** Not available

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use heavy water stream. Use of heavy stream of water may spread fire.

**Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Pressurized container: may burst if heated.

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

**Advice for Firefighters**

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

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

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

**Hazardous Combustion Products:** Carbon oxides (CO, CO₂), sodium oxides, potassium oxides, nitrogen oxides, ammonia, irritating fumes.

**Other information:** Do not allow run-off from fire fighting to enter drains or water courses.

**Reference to Other Sections**

Refer to section 9 for flammability properties.
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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid breathing (vapors, mist, spray). Avoid prolonged contact with eyes, skin and clothing.
For Non-Emergency Personnel
Protective Equipment: Use appropriate personal protection equipment (PPE).
For Emergency Personnel
Protective Equipment: Equip cleanup crew with proper protection.
Emergency Procedures: Ventilate area.

Environmental Precautions
Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up
For Containment: Contain any spills with dikes or absorbents. Stop leak, if possible without risk.
Methods for Cleaning Up: Absorb and/or contain spill with inert material, then place in suitable container. Clean up spills immediately and dispose of waste safely. Contact competent authorities after a spill.

Reference to Other Sections
See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling
Additional Hazards When Processed: Do not puncture or incinerate container. Pressurized container: may burst if heated. Heating of product to decomposition can release toxic or irritating fumes; ensure proper ventilation is employed, proper precautions are enforced, and applicable regulations are followed.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities
Technical Measures: Comply with applicable regulations.
Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from extremely high or low temperatures, heat, direct sunlight, incompatible materials.
Incompatible Materials: Strong acids, strong bases, strong oxidizers.
Storage Temperature: ≤48.9 °C (≤120°F)

Specific End Use(s)
Air Freshener.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Exposure Controls
Appropriate Engineering Controls: For Occupational workplace settings: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Materials for Protective Clothing: Wear thermally protective clothing when handling product in significant amounts

Hand Protection: If material is cold, wear thermally resistant protective gloves.
Eye Protection: Chemical goggles or safety glasses.
Skin and Body Protection: Not available
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Respiratory Protection: Wear approved mask. Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Gas</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Various, described on label</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>9</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Flammable Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>60 psig @ 21.1°C (70°F)</td>
</tr>
<tr>
<td>Relative Vapor Density at 20 °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.06</td>
</tr>
<tr>
<td>Solubility</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition Coefficient: N-Octanol/Water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Mechanical Impact</td>
<td>Not expected to present an explosion hazard due to mechanical impact.</td>
</tr>
<tr>
<td>Explosion Data – Sensitivity to Static Discharge</td>
<td>Not expected to present an explosion hazard due to static discharge.</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous reactions will not occur under normal conditions.

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

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight, extremely high or low temperatures, heat, incompatible materials.

Incompatible Materials: Strong acids, strong bases, strong oxidizers.

Hazardous Decomposition Products: Carbon oxides (CO, CO₂), sodium oxides, potassium oxides, nitrogen oxides, ammonia, irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified pH: 9

Serious Eye Damage/Irritation: Not classified pH: 9

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified
Arm & Hammer™ Deodorizing Air Freshener

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Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Fragrance within this product may cause an allergic reaction in sensitive individuals. High concentration of vapors may induce: headache, dizziness, drowsiness.

Symptoms/Injuries After Skin Contact: Repeated or prolonged skin contact may cause irritation. Contact with gas escaping the container can cause frostbite and freeze burns.

Symptoms/Injuries After Eye Contact: May cause slight irritation to eyes. Contact with gas escaping the container can cause frostbite, freeze burns, and permanent eye damage.

Symptoms/Injuries After Ingestion: Not expected to be a primary route of exposure.

Information on Toxicological Effects - Ingredient(s)

<table>
<thead>
<tr>
<th>LD50 and LC50 Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water (7732-18-5)</strong></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
</tr>
<tr>
<td><strong>Sodium bicarbonate (144-55-8)</strong></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
</tr>
<tr>
<td>LC50 Inhalation Rat</td>
</tr>
<tr>
<td><strong>Ammonium hydroxide (1336-21-6)</strong></td>
</tr>
<tr>
<td>LD50 Oral Rat</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Toxicity  No additional information available

<table>
<thead>
<tr>
<th>Sodium bicarbonate (144-55-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>LC50 Fish 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ammonium hydroxide (1336-21-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Fish 1</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
</tr>
<tr>
<td>EC50 Daphnia 2</td>
</tr>
</tbody>
</table>

Persistence and Degradability

<table>
<thead>
<tr>
<th>Arm &amp; Hammer™ Deodorizing Air Freshener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and Degradability</td>
</tr>
</tbody>
</table>

Bioaccumulative Potential

<table>
<thead>
<tr>
<th>Arm &amp; Hammer™ Deodorizing Air Freshener</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioaccumulative Potential</td>
</tr>
</tbody>
</table>

| Petroleum gases, liquefied, sweetened (68476-86-8) |
| Log POW                                      |
| <= 2.8                                       |

Mobility in Soil  Not available

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Pressurized container: may burst if heated.
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SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT
Proper Shipping Name : AEROSOLS
Hazard Class : 2.2
Identification Number : UN1950
Label Codes : 2.2

May meet limited quantity requirements per DOT 49CFR 173.306, and other applicable sections. Please see similar sections within IATA, IMDG, and TDG regulations for more information.

In Accordance with IMDG
Proper Shipping Name : AEROSOLS
Hazard Class : 2.2
Identification Number : UN1950
Label Codes : 2.2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U

In Accordance with IATA
Proper Shipping Name : AEROSOLS, NON-FLAMMABLE
Identification Number : UN1950
Hazard Class : 2.2
Label Codes : 2.2
ERG Code (IATA) : 2L

In Accordance with TDG
Proper Shipping Name : AEROSOLS, NON-FLAMMABLE
Hazard Class : 2.2
Identification Number : 1950
Label Codes : 2.2

SECTION 15: REGULATORY INFORMATION

US Federal and international regulations

Arm & Hammer™ Deodorizing Air Freshener
SARA Section 311/312 Hazard Classes | Sudden release of pressure hazard
Water (7732-18-5)
Regional legislation
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Korean ECL (Existing Chemicals List)
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Petroleum gases, liquefied, sweetened (68476-86-8)
Regional legislation
Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on the Canadian DSL (Domestic Substances List)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
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<table>
<thead>
<tr>
<th>Monopotassium carbonate (298-14-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional legislation</strong></td>
</tr>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
<tr>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium bicarbonate (144-55-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional legislation</strong></td>
</tr>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
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<tr>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
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<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Ammonium hydroxide (1336-21-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regional legislation</strong></td>
</tr>
<tr>
<td>Listed on the AICS (Australian Inventory of Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the Canadian DSL (Domestic Substances List)</td>
</tr>
<tr>
<td>Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)</td>
</tr>
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<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
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<tr>
<td>Listed on the Japanese ENCS (Existing &amp; New Chemical Substances) inventory</td>
</tr>
<tr>
<td>Listed on the Korean ECL (Existing Chemicals List)</td>
</tr>
<tr>
<td>Listed on NZIoC (New Zealand Inventory of Chemicals)</td>
</tr>
<tr>
<td>Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)</td>
</tr>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

**Japanese Poisonous and Deleterious Substances Control Law**

**US State Regulations**

<table>
<thead>
<tr>
<th>Petroleum gases, liquefied, sweetened (68476-86-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Maine - Chemicals of High Concern</td>
</tr>
<tr>
<td>U.S. - Minnesota - Chemicals of High Concern</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sodium bicarbonate (144-55-8)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Texas - Effects Screening Levels - Long Term</td>
</tr>
<tr>
<td>U.S. - Texas - Effects Screening Levels - Short Term</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ammonium hydroxide (1336-21-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities</td>
</tr>
<tr>
<td>U.S. - Louisiana - Reportable Quantity List for Pollutants</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Reportable Quantity</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Soil Reportable Concentration - Reporting Category 1</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Soil Reportable Concentration - Reporting Category 2</td>
</tr>
<tr>
<td>RTK - U.S. - Massachusetts - Right To Know List</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Toxics Use Reduction Act</td>
</tr>
</tbody>
</table>
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U.S. - Michigan - Polluting Materials List
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New Jersey - TCPA - Extraordinarily Hazardous Substances (EHS)
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

Arm & Hammer™ Deodorizing Air Freshener

| WHMIS Classification | Class A - Compressed Gas |

| Water (7732-18-5) |
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Petroleum gases, liquefied, sweetened (68476-86-8) |
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Class A - Compressed Gas |
| Class B Division 1 - Flammable Gas |

| Monopotassium carbonate (298-14-6) |
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Sodium bicarbonate (144-55-8) |
Listed on the Canadian DSL (Domestic Substances List)

| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |

| Ammonium hydroxide (1336-21-6) |
Listed on the Canadian DSL (Domestic Substances List)
Listed on the Canadian IDL (Ingredient Disclosure List)

| IDL Concentration 1 % |

| WHMIS Classification | Class E - Corrosive Material |
| Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects |

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

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 04/14/2015
Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4
Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1
Compressed gas Gases under pressure Compressed gas
Eye Dam. 1 Serious eye damage/eye irritation Category 1
Flam. Gas 1 Flammable gases Category 1
Liquefied gas Gases under pressure Liquefied gas

04/14/2015 EN (English US) 8/9
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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simple Asphy</td>
<td>Simple Asphyxiant</td>
</tr>
<tr>
<td>Skin Corr. 1B</td>
<td>Skin corrosion/irritation Category 1B</td>
</tr>
<tr>
<td>H220</td>
<td>Extremely flammable gas</td>
</tr>
<tr>
<td>H280</td>
<td>Contains gas under pressure; may explode if heated</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life</td>
</tr>
</tbody>
</table>

**Party Responsible for the Preparation of This Document**
Church & Dwight
500 Charles Ewing Blvd
Ewing Township, NJ 08628
T 1-800-524-1328

This Product Safety Data Sheet is offered solely for your information, consideration and investigation. Church & Dwight Co., Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of data contained herein. Church & Dwight Co., Inc. urges persons receiving this information to make their own determination as to the information suitability for their particular application.
1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier used on the label: Soft Scrub® with Bleach Cleanser
Soft Scrub® with Bleach Disinfectant Cleanser
Commercial Soft Scrub® with Bleach Disinfectant Cleanser

Other means of identification: 1388321, 1432932, 1550861 (SS w/Bleach Disinfectant Cleanser)

Recommended use of the chemical and restrictions on use: Cleansing Cream, Do not mix with other products.

Name, address and telephone number of the chemical manufacturer:
The Dial Corporation, a Henkel Company
7201 E. Henkel Way
Scottsdale, AZ 85255-9672 USA
CHEMTREC: 1-800-424-9300 (24 hours daily)
Internet: www.henkelna.com

Emergency telephone number: Medical Emergencies: 1-888-689-9082

2. HAZARD IDENTIFICATION

The hazards described in this OSHA Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers, and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>SKIN CORROSION</td>
<td>1A</td>
</tr>
<tr>
<td>SERIOUS EYE DAMAGE</td>
<td>1</td>
</tr>
<tr>
<td>SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE</td>
<td>1</td>
</tr>
<tr>
<td>ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT</td>
<td>2</td>
</tr>
</tbody>
</table>

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Signal word: DANGER
Hazard Statement(s):
- Causes severe skin burns and eye damage.
- Causes damage to organs through prolonged or repeated exposure.
- Toxic to aquatic life.

Symbol(s):

Precautionary Statements:

Prevention:
- Do not breathe vapors, mist, or spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves, eye protection, and face 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 victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
- IF exposed or concerned: Get medical attention.
- Wash contaminated clothing before reuse.

Storage: Not prescribed.
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.
Hazards not otherwise classified: Not available.


See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

<table>
<thead>
<tr>
<th>Chemical Name*</th>
<th>CAS Number (Unique Identifier)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>30 - 60 %</td>
</tr>
<tr>
<td>Boehmite (Al(OH)O)</td>
<td>1318-23-6</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>85711-69-9</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>7681-52-9</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

4. FIRST AID MEASURES

Description of necessary measures

Inhalation: Keep affected person warm and at rest. Remove from exposure area to fresh air immediately. Treat symptomatically and supportively. Contact physician or local poison control center

Skin contact: Take off contaminated clothing. Rinse affected area with large amounts of water until no evidence of product remains. Contact physician or local poison control center.

Eye contact: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation develops.

Ingestion: Treat symptomatically and supportively. Maintain airway and respiration. Do not induce vomiting. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

Most important symptoms and effects, both acute and delayed

After eye contact: Corrosive, may cause permanent damage to the eyes (impairment of vision). After skin contact: Moderate to strong irritation of the skin (redness, swelling, burning). Severe burns also possible. After Ingestion: Ingestion may cause pain, burning, swelling and redness in the mouth and throat. Nausea and vomiting may occur. After inhalation: Irritation of the respiratory tract, coughing. Inhalation of larger amounts may cause laryngospasm with shortness of breath.

Indication of any immediate medical attention and special treatment needed

After eye contact: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. After skin contact: Rinse affected area with large amounts of water until no evidence of product remains. After ingestion: Do not induce vomiting. Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray or regular foam.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

Special protective equipment and precautions for fire-fighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Avoid breathing hazardous vapors, keep upwind. Isolate area. Keep unnecessary personnel away.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop leak if you can do it without risk. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

Environmental Precautions

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters.

Methods and materials for containment and cleaning up
7. HANDLING AND STORAGE

Precautions for safe handling
Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>10 mg/m³ TWA Total dust.</td>
<td>5 mg/m³ PEL Respirable fraction.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Boehmite (Al(OH)₃O)</td>
<td>1 mg/m³ TWA Respirable fraction.</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>None</td>
<td>None</td>
<td>2 mg/m³ STEL</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls
Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

Individual protection measures

- **Respiratory**: Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.
- **Eye**: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.
- **Hand/Body**: Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>cream, white</td>
</tr>
<tr>
<td>Odor</td>
<td>characteristic</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>12.7 , 25 °C</td>
</tr>
<tr>
<td>Melting point/ range:</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point:</td>
<td>&gt; 93.3 °C (&gt; 199.94 °F)</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable/Explosive limits - lower:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable/Explosive limits - upper:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not available.</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>5,000 - 12,000 mPa.s</td>
</tr>
<tr>
<td>VOC content:</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>1.3 (25°C, 77°F)</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- **Reactivity**: This product reacts with acids.
- **Chemical stability**: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
- **Possibility of hazardous reactions**: Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Conditions to avoid: Avoid storing in direct sunlight and avoid extremes of temperature.

Incompatible materials: Strong oxidizers, acids. Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine and other chlorinated compounds

Hazardous decomposition products: Thermal decomposition may produce irritating smoke, oxides of carbon and chlorine.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation: Irritating, in high concentration, to the respiratory tract (nose, throat, and lungs). Direct contact with mucous membranes may result in corrosive damage.

Skin contact: May cause severe irritation, pain and possibly chemical burns.

Eye contact: May cause moderate to severe irritation, with possibility of corneal injury if not removed promptly.

Ingestion: Ingestion may cause severe irritation or burns to esophagus, mouth, and stomach with nausea, vomiting and diarrhea.

Physical/Chemical: The product is alkaline. The product is corrosive.

Other relevant toxicity information:
This product is a household product. The use of this product by consumers is safe under normal and reasonable foreseen use.

Numerical measures of toxicity, including delayed and immediate effect

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>None</td>
<td>Nuisance dust</td>
</tr>
<tr>
<td>Boehmite (Al(OH)O)</td>
<td>None</td>
<td>Respiratory, Lung, Corrosive, IRRITANT</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>None</td>
<td>No data</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>Oral LD50 (RAT) = 8.91 g/kg</td>
<td>Irritant, Corrosive, Skin</td>
</tr>
</tbody>
</table>

Carcinogenicity information

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Boehmite (Al(OH)O)</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Carcinogenicity: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

Mutagenicity: None of the ingredients in this product are known to cause mutagenicity.

Toxicity to reproduction: None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:
This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions. The following toxicity information is available for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

Toxicity to fish:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Acute toxicity study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>LC50</td>
<td>&gt; 10,000 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203</td>
</tr>
<tr>
<td>Boehmite (Al(OH)O)</td>
<td>LC50</td>
<td>&gt; 100 mg/l</td>
<td>Fish</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>LC50</td>
<td>4.1 mg/l</td>
<td>Fish</td>
<td>48 h</td>
<td>Leuciscus idus</td>
<td>DIN 38412-15</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>LC50</td>
<td>10 – 100 mg/l</td>
<td>Fish</td>
<td></td>
<td></td>
<td>OECD 203</td>
</tr>
</tbody>
</table>

Toxicity to aquatic invertebrates:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Acute toxicity study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>EC50</td>
<td>&gt; 1,000 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Boehmite (Al(OH)O)</td>
<td>EC50</td>
<td>&gt; 100 mg/l</td>
<td>Daphnia</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>EC50</td>
<td>7.5 mg/l</td>
<td>Daphnia</td>
<td>24 h</td>
<td>Daphnia magna</td>
<td>OECD 202</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>EC50</td>
<td>10 – 100 mg/l</td>
<td>Daphnia</td>
<td></td>
<td>Daphnia magna</td>
<td>OECD 202</td>
</tr>
</tbody>
</table>
Toxicity to algae:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Value type</th>
<th>Value</th>
<th>Acute toxicity study</th>
<th>Exposure time</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium carbonate</td>
<td>EC50</td>
<td>&gt; 200 mg/l</td>
<td>Algae</td>
<td>72h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD 201</td>
</tr>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>EC50</td>
<td>95.5 mg/l</td>
<td>Algae</td>
<td>72h</td>
<td>Desmodesmus subspicatus</td>
<td>OECD 201</td>
</tr>
<tr>
<td>Sodium hypochlorite</td>
<td>EC50</td>
<td>0.4 mg/l</td>
<td>Algae</td>
<td>24h</td>
<td>Dunaliella sp.</td>
<td>OECD 201</td>
</tr>
</tbody>
</table>

Persistence and Degradability:

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Result Value</th>
<th>Route of application</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfonic acids, C13-17-sec-alkane, sodium salts</td>
<td>readily biodegradable</td>
<td>aerobic</td>
<td>71 %</td>
<td>EU Method C.4-E (closed bottle)</td>
</tr>
</tbody>
</table>

Bioaccumulation Potential: The bioaccumulation potential of this product has not been determined.

Mobility: The mobility of this product (in soil and water) has not been determined.

13. DISPOSAL CONSIDERATIONS

Waste Number and Description: D002 (Corrosivity)

Disposal Considerations:
- Disposal of products: This product is a RCRA characteristic hazardous waste (corrosive) and must be disposed of in a RCRA Subtitle C landfill. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.
- Disposal of packages: Do not reuse this container. Dispose of container and unused contents in accordance with federal, state and local requirements.
- Additional information: Observe all federal, state and local regulations when storing or disposing of this substance.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

International Air Transportation (ICAO/IATA)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

Water Transportation (IMO/IMDG)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

15. REGULATORY INFORMATION

Occupational safety and health act: Hazard Communication Standard, 29 CFR 1910.1200(g) Appendix D: The Occupational Safety and Health Administration (OSHA) require that the Safety Data Sheets (SDSs) are readily accessible to employees for all hazardous chemicals in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information:
- TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
- TSCA 12 (b) Export Notification: None above reporting de minimis
- CERCLA/SARA Section 302: None above reporting de minimis
- CERCLA/SARA Section 311/312: Not available.
- CERCLA/SARA Section 313: None above reporting de minimis
- California Proposition 65: No California Proposition 65 listed chemicals are known to be present.
Export Restrictions: This is a pesticide product registered by the US 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. Refer to the pesticide label for specific hazard information. The pesticide label also includes other important information, including directions for use.

Canada Regulatory Information:

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates (“Henkel”) does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel’s products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel’s products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This safety data sheet contains changes from the previous version in sections: 2, 3, 11

Prepared by: R&D Support Services

Issue date: 04/20/2015  Supercedes: Rev. 6, 08/11/2014
1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier used on the label:
- Dial® Antibacterial Hand Soap – Mountain Fresh, Spring Water, Pomegranate and Tangerine, Gold, Aloe
- Dial® Antibacterial Hand Soap – White Tea & Vitamin E (Fresh Snow)
- Berkley & Jensen® Antibacterial Liquid Hand Soap
- Dial® Antibacterial Hand Soap – Hello Kitty
- Dial® Seasonals Collection Antibacterial Liquid Hand Soap – Blackberry & Coriander, Red Grapes & Mint, Cranberry & Fig, Spiced Apple & Pear, Tropical Bloom, Fruit Splash, Exotic Escape, Refreshing Escape
- Dial® Skin Therapy Antibacterial Liquid Hand Soap - Himalayan Pink Salt
- Dial® Lavender & Twilight Jasmine Antibacterial Liquid Hand Soap
- Dial® Gold Antibacterial Hand Soap – Professional
- Liquid Dial® with Moisturizers
- Liquid Dial® Sensitive Skin

Other means of identification:
714729, 1631912 (Mountain Fresh); 1533782, 714757, 1631890, 1763465 (Spring Water); 1112000, 1151446, 1631899 (Pomegranate and Tangerine); 1198192, 1305318, 1632015, 1679927 (Gold); 1198180, 1305319, 1632019, 1661407, 1679939, 1763472 (Aloe); 1362663, 1631897 (White Tea & Vitamin E, Fresh Snow); 1365866 (Berkley & Jensen); 1605423, 1606021, 1631872, 1693185 (Hello Kitty); 1693185 (SC Blackberry & Coriander), 1693320 (SC Red Grapes & Mint), 1713197 (SC Cranberry & Fig); 1713166 (SC Spiced Apple & Pear); 1745158 (SC Tropical Bloom); 1729985 (SC Fruit Splash); 1802082 (Exotic Escape); 1802073 (Refreshing Escape); 1715643 (Skin Therapy - Himalayan Pink Salt); 1778120 (Lavender & Twilight Jasmine); 1679927 (Professional); 1756809 (w/Moisturizers); 1756400 (Sensitive Skin)

Recommended use of the chemical and restrictions on use:
Liquid Antibacterial Hand Soap; No restrictions on use

Name, address and telephone number of the chemical manufacturer:
The Dial Corporation, a Henkel Company
7201 E. Henkel Way
Scottsdale, AZ 85255-9672 USA
CHEMTREC: 1-800-424-9300 (24 hours daily)
Internet: www.henkelna.com

Emergency telephone number:
Medical Emergencies: 1-888-689-9082

2. HAZARD IDENTIFICATION

The hazards described in this OSHA Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers, and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Signal word: Not prescribed
Hazard Statement(s): Not prescribed
Symbol(s): None

Precautionary Statements:
Prevention: Not prescribed
Response: Not prescribed
Storage: Not prescribed
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Hazards not otherwise classified: Not available.

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

<table>
<thead>
<tr>
<th>Chemical Name*</th>
<th>CAS Number (Unique Identifier)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO</td>
<td>68585-34-2</td>
<td>5 – 10 %</td>
</tr>
<tr>
<td>T-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>61789-40-0</td>
<td>1 – 5 %</td>
</tr>
</tbody>
</table>

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

### 4. FIRST AID MEASURES

**Description of necessary measures**

- **Inhalation:** First aid measures not required.
- **Skin contact:** First aid measures not required. Cosmetic product and therefore not necessary.
- **Eye contact:** Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation develops.
- **Ingestion:** Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

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

- **After eye contact:** May cause mild transient irritation. After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

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

- **After eye contact:** Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

### 5. FIRE FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media**

- **Suitable extinguishing media:** Dry chemical, carbon dioxide, water spray or regular foam.
- **Unsuitable extinguishing media:** None known

**Specific hazards arising from the chemical**

Oxides of carbon and oxides of nitrogen.

**Special protective equipment and precautions for fire-fighters**

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing hazardous vapors, keep upwind.

### 6. ACCIDENTAL RELEASE MEASURES

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

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

**Environmental Precautions**

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

**Methods and materials for containment and cleaning up**

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

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

Store in original containers in a cool dry area. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appropriate engineering controls
Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

Individual protection measures

Respiratory: Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

Eye: Splash-proof safety glasses are required to prevent eye contact where splashing of the product may occur.

Hand/Body: Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Liquid, colorless
- **Odor:** Citric, green, fresh
- **pH:** 5.20 - 6.20 (25 °C)
- **Evaporation rate:** Not available.
- **Flash point:** > 93.3 °C (> 199.94 °F)
- **Vapor pressure:** Not available.
- **Viscosity:** 3,000 – 8,000 mPas
- **Specific gravity:** 1.024 at 20 °C (68°F)

10. STABILITY AND REACTIVITY

- **Reactivity:** This product may react with strong alkalies.
- **Chemical stability:** Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
- **Possibility of hazardous reactions:** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
- **Conditions to avoid:** Avoid storing in direct sunlight and avoid extremes of temperature.
- **Incompatible materials:** Strong oxidizers and alkalis.
- **Hazardous decomposition products:** Thermal decomposition may release toxic and/or hazardous gases, including ammonia.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation: Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

Skin contact: Not a hazard under normal use conditions.

Eye contact: This product may cause slight irritation.

Ingestion: May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.

Physical/Chemical: No physical/chemical hazards are anticipated for this product.
Other relevant toxicity information:
This product is a personal care or cosmetic product. Direct contact with eyes may cause irritation. No adverse effects are anticipated to skin from normal use.

Numerical measures of toxicity, including delayed and immediate effect

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO</td>
<td>None</td>
<td>Irritant</td>
</tr>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
</tbody>
</table>

Carcinogenicity information

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Carcinogenicity
None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

Mutagenicity
None of the ingredients in this product are known to cause mutagenicity.

Toxicity to reproduction
None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:
This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions.

Toxicity to fish:
The aquatic toxicity profile of this product has not been determined.

Toxicity to aquatic invertebrates:
The aquatic toxicity profile of this product has not been determined.

Toxicity to algae:
The aquatic toxicity profile of this product has not been determined.

Persistence and Degradability: The persistence and degradability of this product has not been determined. The hazardous ingredients are readily biodegradable.

<table>
<thead>
<tr>
<th>Hazardous substances</th>
<th>Result value</th>
<th>Route of application</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO</td>
<td>Readily biodegradable</td>
<td>aerobic</td>
<td>80 – 83 %</td>
<td>OECD 301 B (CO2 evolution)</td>
</tr>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Readily biodegradable</td>
<td>aerobic</td>
<td>86 %</td>
<td>OECD 301 D (closed bottle)</td>
</tr>
</tbody>
</table>

Bioaccumulation Potential: The bioaccumulation potential of this product has not been determined.

Mobility: The mobility of this product (in soil and water) has not been determined.

13. DISPOSAL CONSIDERATIONS

Waste Number and Description: Not applicable, not regulated.

Disposal Considerations:
- Disposal of products: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.
- Disposal of packages: Place in trash.
- Additional information: Observe all federal, state and local regulations when storing or disposing of this substance

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None
15. REGULATORY INFORMATION

Occupational safety and health act: Hazard Communication Standard, 29 CFR 1910.1200(g) Appendix D: The Occupational Safety and Health Administration (OSHA) require that the Safety Data Sheets (SDSs) are readily accessible to employees for all hazardous chemicals in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information:

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification: None above reporting de minimis
CERCLA/SARA Section 302: None above reporting de minimis
CERCLA/SARA Section 311/312: Not available.
CERCLA/SARA Section 313: None above reporting de minimis
California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information:

 CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates (“Henkel”) does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user’s responsibility to determine the suitability of Henkel’s products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel’s products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel’s products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This safety data sheet contains changes from the previous version in sections: 2, 12

Prepared by: R&D Support Services

Issue date: 04/20/2015
Supercedes: Rev. 35, 08/06/2014
Safety Data Sheet

Section 1: Identification of the Preparation and the Company

Product Name: Para Urinal Block with Screen
Manufacturer: Fresh Products, LLC, 4010 South Ave, Toledo, Ohio 43615 USA
Recommended Use: Deodorizer
Restrictions on Use: For intended use only
Item Number: 4USPB, 3USPB
Emergency Contact (spill/release): 800-424-9300

Section 2: Hazards Identification

General: Contains small amounts of chemicals that are hazardous to health and the environment but in quantities too small to constitute any practical risks to health or the environment.

Classification:
- Hazard Phrases:
  - P301+P312: If swallowed: Call a poison center or doctor/physician
  - P338: If in eyes: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing
  - P264: Wash hands thoroughly after handling.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P270: Do not eat, drink or smoke when using this product.
  - P302+P352: If on skin, wash with plenty of water.
  - P305+P351+P338: If in eyes: If eye irritation persists: Get medical advice/attention.
  - P302: Obtain special instructions before use.
  - P305+P351: If in eyes: Rinse cautiously with water for several minutes.
  - P201: Obtain special instructions before use.
  - P337+P313: If eye irritation persists: Get medical advice/attention.
  - P202: Do not handle until all safety precautions have been read and understood.
  - P308+P313: If exposed or concerned get medical advice/attention.
  - P312: Call a poison center or doctor/physician if you feel unwell.
  - P319: Causes serious eye irritation.
  - P313: Suspected of causing cancer.
  - P200: Do not touch with bare hands.
  - P270: Do not eat, drink or smoke when using this product.
  - P280: Wear protective gloves/protective clothing/eye protection/face protection.
  - P302: Obtain special instructions before use.
  - P305+P351: If in eyes: Rinse cautiously with water for several minutes.
  - P335+P313: If eye irritation persists: Get medical advice/attention.
  - P312: Call a poison center or doctor/physician if you feel unwell.

Warning:
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H351: Suspected of causing cancer.

Acute Toxicity Oral 4
- P270: Do not eat, drink or smoke when using this product.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P305+P351: If in eyes: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing
- P201: Obtain special instructions before use.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Acute Toxicity Dermal 4
- P302+P352: If on skin, wash with plenty of water.
- P362: Take off contaminated clothing and wash before reuse.
- P308+P313: If exposed or concerned get medical advice/attention.

Eye Damage/Irritation 2A
- P312: Call a poison center or doctor/physician if you feel unwell.

Carcinogenicity 2
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

Section 3: Ingredient Information

Chemical Identification: Crystalline Solid
Form/Shape: Urinal screen with para block
The product is a complex mixture of substances of which the following have been classified as presenting a health or environmental hazard or as having an occupational exposure limit within the meaning of the Directive 67/548/EEC or 1999/45/EC

<table>
<thead>
<tr>
<th>CAS NR</th>
<th>EC NR</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-46-7</td>
<td>203-400-5</td>
<td>p-Dichlorobenzene</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

General: No specific acute effects or symptoms are known. Inhalation: No acute effects expected. If person is feeling unwell, remove to fresh air. Ingestion: Possibility of ingestion limited due to product form and difficulty to chew and ingest. In the event of ingestion, rinse mouth thoroughly with water. Skin: Wash off with soap and water. Eyes: Possibility of eye contact limited. In the event, wash thoroughly with water or approved eyewash.

Section 5: Fire Fighting Measures

Extinguishing Media: Use extinguishing media appropriate for the surrounding fire. Water spray, fog or mist. Dry chemicals, sand etc.
Exposure Hazards: Thermal decomposition or burning may release a variety of products ranging from simple hydrocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide. Full protective clothing should be worn before a confined fire space is entered. Self-contained breathing apparatus should be worn.

Section 6: Accidental Release Measures

No special requirements for accidental release required. Apply good housekeeping practices.

Section 7: Handling and Storage

Usage Precautions: Follow normal good housekeeping practices. Keep away from direct flames. Storage Precautions: Keep in cool, dry conditions in original containers at no more than 30° C

Section 8: Exposure Control and Personal Protection

Page 1
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Crystalline solid</td>
</tr>
<tr>
<td>Flash pt</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not determined/applicable</td>
</tr>
<tr>
<td>Melting Pt</td>
<td>Estimated 60°C</td>
</tr>
<tr>
<td>Boiling Pt</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Color</td>
<td>Various</td>
</tr>
<tr>
<td>pH value</td>
<td>Not determined/applicable</td>
</tr>
<tr>
<td>Relative Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>UEL</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined/applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined/applicable</td>
</tr>
<tr>
<td>Density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting Pt</td>
<td>Estimated 60°C</td>
</tr>
<tr>
<td>Boiling Pt</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Flash pt</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Autignition Temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

- **Stability:** Normally stable.
- **Conditions to avoid:** Avoid extreme heat and naked flames.
- **Materials to avoid:** Strong oxidizing agents.
- **Decomposition Products:** None under normal storage conditions.

### SECTION 11: TOXICOLOGICAL INFORMATION

- **Acute Effects:** Ingredients include a small quantity of volatile fragrance chemicals which may contain small amounts of substances that are harmful if swallowed and/or irritating to the eyes and skin.
- **Chronic Effects:** None known.
- **Health Risks:**
  - **Eye Contact:** No practical risk of adverse health effects.
  - **Ingestion:** No practical risk of adverse health effects.
  - **Inhalation:** Prolonged exposure to volatile ingredients is unlikely to cause irritation or other adverse health effects.

### SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** N/A
- **Persistence and Degradability:** N/A
- **Bioaccumulative Potential:** N/A
- **Mobility in Soil:** N/A
- **Other Adverse Effects:** N/A

### SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local Authority requirements e.g., for used product, as household waste.

### SECTION 14: TRANSPORT INFORMATION

- **Product is not regulated as hazardous**
- **Transport Hazard Class:** N/A
- **DOT Classifications:** Non Hazardous
- **UN-Number:** N/A
- **Packing group:** N/A
- **UN Proper Shipping Name:** N/A
- **Marine Pollutant:** N/A
- **Special Precautions with Transport:** N/A

### SECTION 15: REGULATORY INFORMATION

Classification, Packaging and Labeling according to Directive 99/45/EC

#### Signal word: WARNING

- **Precautionary Phrases:**
  - **P280:** Wear protective gloves/protective clothing/eye protection/ face protection.

#### Hazard Phrases:

- **H302:** Harmful if swallowed.
- **P102:** Keep out of reach of children
- **H312:** Harmful in contact with skin
- **P201:** Obtain special instructions before use.
- **H319:** Causes serious eye irritation.
- **P202:** Do not handle until all safety precautions have been read and understood.
- **H351:** Suspected of causing cancer.
- **P264:** Wash hands thoroughly after handling.
- **P270:** Do not eat, drink or smoke when using this product.
- **P302+P352:** If on skin, wash with plenty of water.
- **P312:** Call a poison center or doctor/physician if you feel unwell.

#### Exclamation mark

- **P305+P351+P338:** If in eyes: Rinse cautiously with water for several minutes.

#### Health Hazard

- **P301+P312:** If swallowed: Call a poison center or doctor/physician if you feel unwell.
- **P308+P351+P338:** If in eyes: Rinse cautiously with water for several minutes.
- **P305+P351+P338:** If in eyes: Rinse cautiously with water for several minutes.
- **P302+P352:** If on skin, wash with plenty of water.
- **P362:** Take off contaminated clothing and wash before reuse.
- **P405:** Store locked up
- **P501:** Dispose of contents to an approved waste disposal plant.

### SECTION 16: OTHER INFORMATION

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
Section I  Product Identification

Product Name: 925 GERM FREE
Proper Shipping Name: Cleaning Compounds, Liquid
Generic Name: DISINFECTANT/CLEANER
Chemical Family: N/A
Supplier's Name: ALCO Chemical, Inc.
Formula: N/A
Address: 45 North Summit Street
Akron, Ohio 44308
Phone: (330) 253-3535
EMERGENCY/CHEM*TEL: 1-800-255-3924

Section II  Ingredients Listed as Hazardous According to OSHA 29CFR1910

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>WT%</th>
<th>TWA</th>
<th>STEL</th>
<th>CEILING</th>
<th>CARCINOGENIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl dimethyl ammonium chloride</td>
<td>7173-51-5</td>
<td>1-2</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
<tr>
<td>Alkyl dimethyl benzyl ammonium chloride</td>
<td>8001-54-5</td>
<td>1-2</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
<tr>
<td>Nonyl Phenol Ethoxylates</td>
<td>9016-45-9</td>
<td>2-4</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
</tbody>
</table>

(* Indicates SARA Title 313)

Section III  Physical Data

Boiling Range: 212°F (initial) % Solids by Weight: N/A
Vapor Pressure: 20 mm Hg @68°F % Solubility in Water: 100%
Physical Description: Yellowish liquid with characteristic odor.

Section IV  Fire & Explosion Hazards

Flash Point: N/A Method used: N/A
Flammability Limits (LEL/UEL): N/A N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: N/A
Unusual Fire & Explosion Hazards: None

Section V  Health Hazard Data

Threshold Limit Value: N/A Primary Routes of Entry: Eyes, Skin, Ingestion
Permissible Exposure Limit: N/A
Emergency and First Aid Procedures:

SKIN: Wash with soap and water. EYES: Flush for 15 minutes with water. INGESTION: Drink large amounts of water, DO NOT induce vomiting, seek doctor.

Section VI  Reactivity Data

Stability: STABLE
Incompatibility (material to avoid): None Known
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition Products: None known

Section VII  Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Mop up and dispose of properly.
Waste disposal method: Any method in accordance with applicable laws
Volatile organic compounds (VOC): N/A
RCRA hazardous waste number (40 CFR 261.33): N/A
CERCLA (superfund) reportable quantity (in lbs): N/A

Section VIII  Special Protection Data

Respiratory protection (specific type): No special requirements.
Protective gloves (specific type): Waterproof gloves recommended.
Eye protection: Safety glasses recommended.
Other protective equipment: No special requirements.
Ventilation: Provide local exhaust to keep TLV of section II ingredients, if applicable, below acceptable levels.

Section IX  Special Precautions

KEEP AWAY FROM CHILDREN. KEEP CONTAINER CLOSED DURING STORAGE. FOR INSTITUTIONAL USE.
The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
SAFETY DATA SHEET

PURELL® Advanced Instant Hand Sanitizer

SECTION 1. IDENTIFICATION

Product name : PURELL® Advanced Instant Hand Sanitizer

Manufacturer or supplier’s details
Company name of supplier : GOJO Industries, Inc.
Address : One GOJO Plaza, Suite 500
Akron OH 44311
Telephone : 1 (330) 255-6000
Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use
Recommended use : Hand Sanitizer
Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
Flammable liquids : Category 3
Eye irritation : Category 2A

GHS Label element
Hazard pictograms :  

Signal Word : Warning
Hazard Statements : H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.
Precautionary Statements:

**Prevention:**
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P233 Keep container tightly closed.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/eye protection/face protection.

**Response:**
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.

**Storage:**
- P403 + P235 Store in a well-ventilated place. Keep cool.

**Disposal:**
- P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards:
Vapors may form explosive mixture with air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Mixture</th>
</tr>
</thead>
</table>

**Hazardous ingredients**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**General advice:**
In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

**If inhaled:**
If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**In case of skin contact:**
Wash with water and soap as a precaution. Get medical attention if symptoms occur.

**In case of eye contact:**
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn.
Get medical attention.

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

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

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

Notes to physician:
- Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

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

Unsuitable extinguishing media:
- High volume water jet

Specific hazards during fire fighting:
- Do not use a solid water stream as it may scatter and spread fire.
- Flash back possible over considerable distance.
- Vapors may form explosive mixtures with air.
- Exposure to combustion products may be a hazard to health.

Hazardous combustion products:
- Carbon oxides

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

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Remove all sources of ignition.
- Use personal protective equipment.
- Follow safe handling advice and personal protective equipment recommendations.

Environmental precautions:
- Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up: Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

### SECTION 7. HANDLING AND STORAGE

**Technical measures:** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

**Local/Total ventilation:** Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.

**Advice on safe handling:** Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.

**Conditions for safe storage:** Keep in properly labeled containers. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

**Materials to avoid:** Do not store with the following product types: Strong oxidizing agents.
SAFETY DATA SHEET

PURELL® Advanced Instant Hand Sanitizer

Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit flammable gases
Explosives
Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>TWA</td>
<td>1,000 ppm / 1,900 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>1,000 ppm / 1,900 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm / 980 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>500 ppm / 1,225 mg/m³</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm / 980 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of work-week</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Engineering measures

- Minimize workplace exposure concentrations.
- Use only in an area equipped with explosion proof exhaust ventilation.
- Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection

- General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn.
- Follow OSHA respirator regulations (29 CFR 1910.134) and
use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**

**Material**

- Impervious gloves

**Material**

- Flame retardant gloves

**Remarks**

- Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

**Eye protection**

- Wear the following personal protective equipment: Safety goggles

**Skin and body protection**

- Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

**Hygiene measures**

- Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**
  - gel

- **Color**
  - clear, light blue

- **Odor**
  - fruity

- **Odor Threshold**
  - No data available

- **pH**
  - 6.5 - 8.5

- **Melting point/freezing point**
  - No data available

- **Initial boiling point and boiling range**
  - 73 °C
Flash point : 25 °C
Evaporation rate : No data available
Flammability (solid, gas) : Not applicable
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : No data available
Relative vapor density : No data available
Density : 0.881 g/cm³

Solubility(ies)
  Water solubility : soluble
Partition coefficient: n-octanol/water : Not applicable
Autoignition temperature : No data available
Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity
  Viscosity, kinematic : 1,000 - 17,000 mm²/s (20 °C)

Explosive properties : Not explosive
Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Oxidizing agents
Hazardous decomposition products : No hazardous decomposition products are known.
SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:
Ethanol:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:
Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Result: No skin irritation

Ingredients:
Ethanol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Propan-2-ol:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation
Causes serious eye irritation.

Ingredients:
Ethanol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

Propan-2-ol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization
Skin sensitization: Not classified based on available information.
Respiratory sensitization: Not classified based on available information.

Product:
Assessment: Does not cause skin sensitization.

Ingredients:
Ethanol:
Test Type: Local lymph node assay (LLNA)
Routes of exposure: Skin contact
Species: Mouse
Result: negative

Propan-2-ol:
Test Type: Buehler Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Germ cell mutagenicity
Not classified based on available information.

Ingredients:
Ethanol:
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo: Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Propan-2-ol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative
Carcinogenicity
Not classified based on available information.

Ingredients:
Propan-2-ol:
Species: Rat
Application Route: inhalation (vapor)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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

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

Reproductive toxicity
Not classified based on available information.

Ingredients:
Ethanol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Propan-2-ol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT-single exposure
Not classified based on available information.

Ingredients:
Propan-2-ol:
Assessment: May cause drowsiness or dizziness.
STOT-repeated exposure
Not classified based on available information.

Repeated dose toxicity

Ingredients:
Ethanol:
Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

Propan-2-ol:
Species: Rat
NOAEL: 5000 ppm
Application Route: inhalation (vapor)
Exposure time: 104 w
Method: OECD Test Guideline 413

Aspiration toxicity
Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:
Ethanol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 9.6 mg/l
Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l
Exposure time: 0.25 h

Propan-2-ol:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
Exposure time: 24 h

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l
Exposure time: 8 d

Toxicity to bacteria: EC50 (Pseudomonas putida): > 1,050 mg/l
Exposure time: 16 h

**Persistence and degradability**

**Ingredients:**

**Ethanol:**
Biodegradability: Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

**Propan-2-ol:**
Biodegradability: Result: rapidly degradable

**Bioaccumulative potential**

**Ingredients:**

**Ethanol:**
Partition coefficient: n-octanol/water: log Pow: -0.35

**Propan-2-ol:**
Partition coefficient: n-octanol/water: log Pow: 0.05

**Mobility in soil**
No data available

**Other adverse effects**
No data available

---

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**
Waste from residues: Dispose of in accordance with local regulations.

Contaminated packaging: Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

---

**SECTION 14. TRANSPORT INFORMATION**

**International Regulation**

**UNRTDG**
UN number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
SAFETY DATA SHEET

PURELL® Advanced Instant Hand Sanitizer

Version 1.1  Revision Date: 02/10/2015  MSDS Number: 36762-00002  Date of last issue: 12/12/2014
Date of first issue: 12/12/2014

13 / 15

Class: 3
Packing group: III
Labels: 3

IATA-DGR
UN/ID No.: UN 1987
Proper shipping name: Alcohols, n.o.s.
(Ethanol, Propan-2-ol)
Class: 3
Packing group: III
Labels: Flammable Liquids
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355

IMDG-Code
UN number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
(Ethanol, Propan-2-ol)
Class: 3
Packing group: III
Labels: 3
EmS Code: F-E, S-D
Marine pollutant: no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

49 CFR
UN/ID/NA number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
Class: 3
Packing group: III
Labels: FLAMMABLE LIQUID
ERG Code: 127
Marine pollutant: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity
This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Fire Hazard
Acute Health Hazard

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

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:

<table>
<thead>
<tr>
<th>Component</th>
<th>HS</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>3.4086 %</td>
</tr>
</tbody>
</table>

US State Regulations

Pennsylvania Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>HS</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>50 - 70 %</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>30 - 50 %</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

New Jersey Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>HS</th>
<th>PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
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</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>30 - 50 %</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

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

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

REACH: All ingredients (pre-)registered or exempt.

TSCA: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

AICS: All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)
SECTION 16. OTHER INFORMATION

Further information

**NFPA:**
- Flammability: 3
- Health: 2
- Instability: 0

**HMIS III:**
- **HEALTH:** 2
- **FLAMMABILITY:** 3
- **PHYSICAL HAZARD:** 0

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

**Full text of other abbreviations**
- ACGIH: USA. ACGIH Threshold Limit Values (TLV)
- ACGIH BEI: ACGIH - Biological Exposure Indices (BEI)
- NIOSH REL: USA. NIOSH Recommended Exposure Limits
- OSHA Z-1: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
- ACGIH / TWA: 8-hour, time-weighted average
- ACGIH / STEL: Short-term exposure limit
- NIOSH REL / TWA: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- NIOSH REL / ST: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- OSHA Z-1 / TWA: 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet:

**Revision Date:** 02/10/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8
SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Hydroxi Pro Grout Smart
Product Use: Stone and grout cleaner
Supplier: Core Products Co., Inc.
Address: 401 Industrial Rd
Canton, TX 75103
Telephone: 800-825-2673
Emergency: CHEMTREC: 800-424-9300

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: This product is a clear flowable liquid. It may cause slight irritation to the eyes. If ingested, it may cause abdominal discomfort, nausea, and dizziness.

Potential Health Effects:
Eye: Contact with liquid may cause mild irritation.
Skin: Contact with skin may cause mild irritation.
Ingestion: May cause abdominal discomfort and nausea
Carcinogenicity: Non-hazardous by OSHA criteria.
Teratogenicity, Mutagenicity, Reproductive Effects: No data available
Synergistic Materials: Not available
Potential Environmental Effects: No data available

SECTION 3 – COMPOSITION, INFORMATION ON INGREDIENTS

This product has not been tested as a whole for health effects on animals or humans. Hazardous ingredients as defined in 29 CFR 1910.1200 if any, are not present at regulated levels.

INGREDIENTS:  

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>%</th>
<th>OSHA/PEL</th>
<th>ACGIH/TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>&lt; 4%</td>
<td>1.4 mg/m3</td>
<td>1.4 mg/m3</td>
</tr>
<tr>
<td>Alcohol Ethoxylate</td>
<td>68131-39-5</td>
<td>&lt; 3%</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Eye: Immediately flush with warm running water for 15 minutes. If irritation persists, repeat flushing and obtain medical attention immediately.
Skin: Wash with soap and warm. If irritation develops obtain medical attention. Remove contaminated clothing and launder before reuse.
Inhalation: Remove the affected victim to fresh air. No emergency care anticipated.
Ingestion: Do Not Induce Vomiting. If patient is fully conscious, rinse mouth with water and drink 2 glasses of water. Obtain medical attention immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing.
SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Not Flammable (aqueous solution)
Flash Point (°F, °C, PMCC): >212°F
Autoignition Temperature (°F, °C): Not available
Flame Propagation or Burning Rate of Solid Materials: Not applicable
Sensitivity to Static Discharge: Not sensitive
Sensitivity to Mechanical Impact: Not sensitive
Extinguishing Media: Water fog, alcohol foam, and dry chemical.
Special Fire Fighting Procedures: Not applicable
Unusual Fire and Explosion Hazards: None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedure: Collect for disposal. Clean up remaining materials from spill with suitable absorbent. For large spills provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in compatible drums for recovery or disposal. Clean area as appropriate since some material, even in small quantities, may present a slip hazard. Observe all personal protection equipment recommendations.

SECTION 7 – HANDLING AND STORAGE

Storage Requirements: Keep Out Of Reach Of Children. Store in a cool, dry place away from incompatible materials.

SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: General ventilation usually adequate.
Respiratory protection: Not normally required if good ventilation is maintained.
Eye protection: use chemical safety glasses or full face shield.
Skin protection: use impervious gloves.
Other protective clothing or equipment: Not normally required
Work Hygienic Practices: The usual precaution for the handling of chemicals must be observed.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous liquid Specific Gravity @ 20_C: 1.01
Vapor Pressure (mm Hg @20oC): NA % Volatile ( Wt %): NA
Vapor Density (Air = 1): NA Evaporation Rate (Butyl Acetate = 1): NA
Solubility in Water: 100% Freezing Point: NA
pH (as is): 6.0-6.5 Boiling Point, >212 F
Odor: Clear liquid with mild citrus odor
SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable
Conditions to Avoid: none
Incompatible Materials: acids and oxidizing agents
Hazardous Decomposition or By-Products: none
Hazardous Polymerization: Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

There is no test data on this product. Based on the information on the ingredients (see section 2) this product may cause irritation to the eyes and skin upon contact.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: There is no test data on this product
Environmental Fate: There is no test data on this product

SECTION 13 – DISPOSAL CONSIDERATIONS

Observe all federal, provincial or state and local government requirements prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

U.S. Department of Transportation (DOT): Not Regulated
Water Transportation (IMO): Not Regulated
Air Transportation (IATA): Not Regulated

SECTION 15 - REGULATORY INFORMATION

Sara 313-reportable ingredients are not present.

SECTION 16 - OTHER INFORMATION

Revision date: 1/1/2013

The manufacturer and seller warrant that the product conforms to its standard specifications when used according to directions. As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for use of this product. Information contained hereinafter is believed to be true and accurate but all statements or suggestions are made without any warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material and the results to be obtained from the use thereof.

Footnotes:
NA-Not applicable NE-data not established CS-Cancer Suspect Agent OX-Oxidizer ND-No data Cor-Corresive
CALC-Calculated EST-Estimated STEL-Short Time Exposure Limit TLV-Threshold limit Value PEL-Permissible Exposure Limit TWA-Time Weighted Average, 8 hours HMIS, PPI-Hazardous Material Identification System, Personal Protection Index
MATERIAL SAFETY DATA SHEET

MSDS #: RQ1307758
Supersedes: RQ1210228
Issue Date: 07/16/2013

Supersedes: RQ1210228
Issue Date: 01/14/2013

SECTION I - PRODUCT IDENTIFICATION

Identity: Mr. Clean Magic Eraser – Original, Extra Power, Handy Grip, Outdoor Pro and Select-a-Size
Emergency Telephone Number: 24hr P&G Operator: 1-800-248-1612
Transportation Emergencies: CHEMTREC: 1-800-424-9300

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)
Health injuries are not known or expected under normal use.

Ingestion: Blockage of the gastrointestinal tract may occur if swallowed. Do not ingest.
Eye Contact: Irritating to eyes.
Skin Contact: Moderately irritating to the skin. Prolonged / repeated contact may result in skin sensitization.
Inhalation: Ensure adequate ventilation.

Signs and Symptoms of Exposure:
Ingestion: May cause irritation and/or blockage of the gastrointestinal tract.
Eye Contact: Dust from foam may cause mechanical irritation.
Skin: Dust from foam may cause mechanical irritation.
Inhalation: Dust from foam may cause irritation of the respiratory track.
Medical Conditions Generally Know to be Aggravated by Exposure: None

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200, and/or WHMIS under the HPA:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS No.</th>
<th>Composition Range</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION IV – FIRST AID INFORMATION
First Aid Procedures:

Ingestion: If foam is ingested, contact a physician or veterinarian immediately. Intestinal blockage may be life threatening to some household pets.

Eye Contact: In case of eye irritation, flush thoroughly with water for 15 minutes. If irritation persists, seek medical advice.

Skin: In case of skin irritation, flush affected area thoroughly with water and apply a cold compress. If irritation persists, seek medical advice. Remove any contaminated clothing.

Inhalation: If respiratory irritation occurs, moving from the site of exposure to an area with fresh air. If irritation persists, seek medical advice.

Note to Physician: (if applicable)

Other: Consumer product package has the following precautionary statement: Consumer product package has the following precautionary statement: “Caution: keep out of reach of children. Keep out of reach of toddlers and pets to avoid accidental ingestion. Do not use on skin or other parts of the body. Using on skin will likely cause abrasions.”

SECTION V - FIRE FIGHTING INFORMATION

<table>
<thead>
<tr>
<th>Flash Point (Method Used):</th>
<th>Closed Cup FP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashpoint:</td>
<td>This product does not sustain combustion when exposed to an open flame.</td>
</tr>
<tr>
<td>Flammable Properties:</td>
<td></td>
</tr>
<tr>
<td>Upper Flammable Limit:</td>
<td>unknown</td>
</tr>
<tr>
<td>Lower Flammable Limit:</td>
<td>unknown</td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>UEL: unknown</td>
</tr>
<tr>
<td></td>
<td>LEL: unknown</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Hazardous Combustion Products:</td>
<td>Unknown</td>
</tr>
<tr>
<td>Explosion Data (Sensitivity to Mechanical Impact):</td>
<td>NA</td>
</tr>
<tr>
<td>Explosion Data (Sensitivity to Static Discharge):</td>
<td>NA</td>
</tr>
<tr>
<td>Extinguishing Media:</td>
<td>Suitable: Regular dry chemical, carbon dioxide, water, regular foam. For large fires use regular foam or flood with fine water spray.</td>
</tr>
<tr>
<td></td>
<td>Unsuitable:</td>
</tr>
<tr>
<td>Protection of Firefighters:</td>
<td>Specific Hazards Arising from the Material: None known</td>
</tr>
<tr>
<td></td>
<td>Protective Equipment and Precautions for Firefighters:</td>
</tr>
</tbody>
</table>

SECTION VI - ACCIDENTAL RELEASE MEASURES

| Personal Precautions: | None known |
| Environmental Precautions: | DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. |
| Methods for Containment: | Collect spilled material in an appropriate container for disposal. |
| Methods for Cleanup: | Keep out of water supplies and sewer. |
| Other Information: (if applicable) | NA |

SECTION VII – HANDLING AND STORAGE

| Precautions To Be Taken in Handling: | None known |
| Precautions To Be Taken in Storage: | None known |
SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: Workplace should have sufficient general.

Engineering Controls: Provide local ventilation.

Personal Protective Equipment (PPE):
Eyewear/Face Protection (Consumer Use): None needed when used as designed under normal use.
Skin Protection: Do not rub on skin, foam can cause abrasion to skin.
Respiratory Protection: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. (Any chemical cartridge respirator with an organic vapor cartridge, dust and mist filter(s)).
Respiratory Protection (Consumer Use): None needed when used as designed under normal consumer use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Original & Extra Strength – white foam
Odor: None
Odor Threshold: Not applicable
Physical State: Liquid
Vapor Pressure (mm Hg): Below 2 mm Hg
Vapor Density (Air=1): NK
Boiling Point: NK
Partition Coefficient (n-octanol/water): NK
Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level.

Flash Point (Method Used): This material does not sustain combustion in open flame testing.
Reserve Alkalinity: NK
Solubility in Water: NK
Evaporation Rate (nBuOAc=1): NK
Specific Gravity/Density: NK
Melting/Freezing Point: NK
pH (): NK

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable at normal temperatures and pressures

Conditions to Avoid: Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials: Avoid contact with strong oxidizers.

Hazardous Decomposition Products: Oxides of carbon, oxides of sulfur, aromatic compounds, formaldehyde, hydrogen cyanide.

Possibility of Hazardous Reactions: No systemic effects expected.

SECTION XI - TOXICOLOGICAL INFORMATION

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.
NTP: No
IARC: No

SECTION XII - ECOLOGICAL INFORMATION
This product is expected to be safe at relevant environmental concentrations. It is intended for dispersive use and should not be disposed of directly into the environment. The article, packaging, or container is compatible with municipal solid waste systems and will not pose a hazard to the environment when the waste is properly handled.

### SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Disposal is to be performed in compliance with federal, state/provincial and local regulations.

**Non-Household Setting (US Federal):**
Product covered by this MSDS, in their original form, when disposed as waste, are considered non hazardous waste according to the federal RCRA Regulation (40CFR261). Disposal should be in accordance with the local, state and federal regulations.

**Non-Household Setting (California):** No

**Household Use:**
Product used in household may be disposed of in refuse.

### SECTION XIV - TRANSPORT INFORMATION

**Ground Transport (US DOT):** Not regulated

**Air Transport (IATA):** Not regulated

**Marine/Water Transport (IMDG):** Not regulated

### SECTION XV - REGULATORY INFORMATION

**United States**
All intentionally-added components of this product are listed on the US TSCA Inventory.

EPA Registration Number: Not Applicable

SARA 313/302/304/311/312 chemicals: None

**California:** This product has been evaluated and does not require warning labeling under California Proposition 65.

California Registration Number: Not Applicable

**State Right-to-Know and CERCLA:**
The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Level</th>
<th>CERCLA RQ</th>
<th>IL</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Canada**
All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

### SECTION XVI - OTHER INFORMATION
Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

<table>
<thead>
<tr>
<th>P&amp;G Hazard Rating:</th>
<th>Health: 1</th>
<th>4=EXTREME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flammability: 2</td>
<td>3=HIGH</td>
</tr>
<tr>
<td></td>
<td>Reactivity: 1</td>
<td>2=MODERATE</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1=SLIGHT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0=NOT SIGNIFICANT</td>
</tr>
</tbody>
</table>

*N/A. - Not Applicable       *N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

**DISCLAIMER:** This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.
1. IDENTIFICATION

Product Name: Dawn Professional® Heavy Duty Degreaser

Product Code(s): 6-10

Product ID: 15154367_PROF_NG

Product Type: Finished Product - Professional Use Only

Recommended Use: Degreaser

Restrictions on Use: Use only as directed on label.

Manufacturer:
Procter & Gamble Professional
2 P&G Plaza
Cincinnati, Ohio 45202

Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5

1-800-332-7787

E-mail Address: pgsds.im@pg.com

Emergency Telephone:
Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Damage / Irritation</td>
<td>2A</td>
</tr>
</tbody>
</table>

Signal Word: WARNING

Hazard Statements: Causes serious eye irritation

Hazard pictograms: 

Page 1 / 8
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

Hazardous ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>-</td>
<td>No</td>
<td>112-34-5</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Benzenesulfonic acid, (1-methylethyl)-, sodium salt (1:1)</td>
<td>-</td>
<td>No</td>
<td>28348-53-0</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Tetrasodium ethylenediaminetetraacetate</td>
<td>-</td>
<td>No</td>
<td>64-02-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>-</td>
<td>No</td>
<td>497-19-8</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>-</td>
<td>No</td>
<td>68081-81-2</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

**Eye contact**

Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact**

Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion**

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Inhalation**

Move to fresh air. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**

None under normal use conditions.
Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media
None.

Special hazard
None known.

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

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

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

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>TWA: 10 ppm inhalable fraction and vapor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exposure controls

Engineering Measures

Distribution, Workplace and Household Settings:
Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Use appropriate eye protection

Hand Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

Respiratory Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State @20°C: liquid
Appearance: purple
Odor: Scented
Odor threshold: No information available

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>10.4</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 93.3 °C / &gt; 200 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>1.12</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
VOC Content (%) Products comply with US state and federal regulations for VOC content in consumer products.

10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.
Stability Stable under normal conditions.
Hazardous polymerization Hazardous polymerization does not occur.
Hazardous Reactions None under normal processing.
Conditions to Avoid None under normal processing.
Materials to avoid None in particular.
Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information
Information on likely routes of exposure

Inhalation No known effect.
Skin contact No known effect.
Ingestion No known effect.
Eye contact Causes serious eye irritation.

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

Acute toxicity No known effect.
Skin corrosion/irritation No known effect.
Serious eye damage/eye irritation Causes serious eye irritation.
Skin sensitization No known effect.
Respiratory sensitization No known effect.
Germ cell mutagenicity No known effect.
Neurological Effects No known effect.
Reproductive toxicity No known effect.
Developmental toxicity No known effect.
Teratogenicity No known effect.
STOT - single exposure No known effect.
STOT - repeated exposure No known effect.
Target Organ Effects No known effect.
Aspiration hazard No known effect.
Carcinogenicity No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>2410 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Benzenesulfonic acid, (1-methylethyl)-, sodium salt (1:1)</td>
<td>28348-53-0</td>
<td>5160.00 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Tetrasodium ethylenediaminetetraacetate</td>
<td>64-02-8</td>
<td>&gt; 1780 mg/kg bw</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>2800 mg/kg bw (Guideline not indicated; rat)</td>
<td>&gt; 2000 mg/kg bw (EPA 16 CFR 1500.40; rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

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

Waste from Residues / Unused Products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

California Hazardous Waste Codes
331

14. TRANSPORT INFORMATION

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:
### Chemical Name

| 2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether | 112-34-5 | X |

### Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

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

### U.S. State Regulations (RTK)

#### New Jersey

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
</tbody>
</table>

#### Pennsylvania

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
<tr>
<td>2-Aminoethanol</td>
<td>141-43-5</td>
<td>X</td>
</tr>
</tbody>
</table>

### International Inventories

#### United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

#### Canada
This product is in compliance with CEPA for import by P&G.

### Legend

- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **CEPA** - Canadian Environmental Protection Act

### 16. OTHER INFORMATION

#### HMIS Ratings
- Health hazard: 2
- Flammability: 1
- Physical hazard: 0

#### NFPA Ratings
- Health hazard: 2
- Flammability: 1
- Instability: 0

#### Issuing Date: 09-Jan-2015
#### Revision Date: 07-Apr-2015

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

1. IDENTIFICATION

Product Name  Mr. Clean Professional™ Magic Eraser Extra Power
Product Code(s)  3-50
Product ID:  95542367_PROF_NG
Product Type:  Finished Product - Professional Use Only
Recommended Use  Cleaning agent
Restrictions on Use  Use only as directed on label.
Manufacturer  Procter & Gamble Professional
                2 P&G Plaza
                Cincinnati, Ohio 45202
                Procter & Gamble Inc.
                P.O. Box 355, Station A
                Toronto, ON M5W 1C5

1-800-332-7787
E-mail Address  pgsds.im@pg.com
Emergency Telephone  Transportation (24 HR)
                CHEMTREC - 1-800-424-9300
                (U.S./ Canada) or 1-703-527-3887
                Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Not Classified.

Signal Word  None
Hazard Statements  None
Hazard pictograms  None
Precautionary Statements - Prevention  None
Precautionary Statements - Response  None
Precautionary Statements - Storage  None
Precautionary Statements -

Issuing Date: 09-Jan-2015  Revision Date: 07-Apr-2015  Version 2
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation.

Hazardous ingredients
None.

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact
Rinse with plenty of water. Get medical attention immediately if irritation persists.

Skin contact
Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion
If ingested, contact a physician immediately. Blockage of the gastrointestinal tract may occur.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed
None under normal use conditions.

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

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media
None.

Special hazard
None known.

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

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up
Methods for containment
Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

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

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
No exposure limits noted for ingredient(s).

Exposure controls

Engineering Measures
Distribution, Workplace and Household Settings:
Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Use appropriate eye protection

Hand Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

Respiratory Protection
Distribution, Workplace and Household Settings:
No special protective equipment required
Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>white</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

#### VOC Content (%)

Products comply with US state and federal regulations for VOC content in consumer products.

### 10. STABILITY AND REACTIVITY

**Reactivity**

None under normal use conditions.

**Stability**

Stable under normal conditions.

**Hazardous polymerization**

Hazardous polymerization does not occur.

**Hazardous Reactions**

None under normal processing.

**Conditions to Avoid**

None under normal processing.

**Materials to avoid**

Strong oxidizing agents.

**Hazardous Decomposition Products**


### 11. TOXICOLOGICAL INFORMATION

**Product Information**

Information on likely routes of exposure

- **Inhalation**
  - No known effect.
- **Skin contact**
  - No known effect.
- **Ingestion**
  - No known effect.
- **Eye contact**
  - No known effect.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
Acute toxicity: No known effect.
Skin corrosion/irritation: No known effect.
Serious eye damage/eye irritation: No known effect.
Skin sensitization: No known effect.
Respiratory sensitization: No known effect.
Germ cell mutagenicity: No known effect.
Neurological Effects: No known effect.
Reproductive toxicity: No known effect.
Developmental toxicity: No known effect.
Teratogenicity: No known effect.
STOT - single exposure: No known effect.
STOT - repeated exposure: No known effect.
Target Organ Effects: No known effect.
Aspiration hazard: No known effect.
Carcinogenicity: No known effect.

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability: No information available.
Bioaccumulative potential: No information available.
Mobility: No information available.
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment
Waste from Residues / Unused Products: Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Codes (non-household setting): 331

14. TRANSPORT INFORMATION

DOT: Not regulated
IMDG: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations
SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

U.S. State Regulations (RTK)
This product does not contain any substances regulated by state right-to-know regulations

International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

HMIS Ratings
Health hazard 1
Flammability 2
Physical hazard 1

NFPA Ratings
Health hazard 1
Flammability 2
Instability 1

Issuing Date: 09-Jan-2015
Revision Date: 07-Apr-2015
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
End of SDS
1. IDENTIFICATION

Product Name: Spic and Span® All-Purpose Cleaner - Powder Concentrate
Product Code(s): 4-50
Product ID: 15153796_PROF_NG
Product Type: Finished Product - Professional Use Only
Recommended Use: Floor Care
Restrictions on Use: Use only as directed on label.
Manufacturer: Procter & Gamble Professional
2 P&G Plaza
Cincinnati, Ohio 45202
Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5
1-800-332-7787
E-mail Address: pgsds.im@pg.com
Emergency Telephone: Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./ Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard Category
Eye Damage / Irritation: Category 2B
Signal Word: WARNING

Hazard Statements: Causes eye irritation
Hazard pictograms: None

Precautionary Statements - Prevention: Wash hands thoroughly after handling
Precautionary Statements - Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention
IF SWALLOWED:
Drink 1 or 2 glasses of water
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>-</td>
<td>No</td>
<td>497-19-8</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>-</td>
<td>No</td>
<td>68081-81-2</td>
<td>10 - 15</td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>-</td>
<td>No</td>
<td>1344-09-8</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact
Rinse with plenty of water. Get medical attention immediately if irritation persists.

Skin contact
Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Inhalation
Move to fresh air. If symptoms persist, call a physician.

Most important symptoms/effects, acute and delayed
None under normal use conditions.

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

Notes to Physician
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media
None.

Special hazard
None known.

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

Specific hazards arising from the chemical
None.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment
Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

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

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines
No exposure limits noted for ingredient(s).

Exposure controls

Engineering Measures
Distribution, Workplace and Household Settings:
Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Use appropriate eye protection

Hand Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection
Distribution, Workplace and Household Settings:
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**
Wear suitable protective clothing

**Respiratory Protection**

**Distribution, Workplace and Household Settings:**
No special protective equipment required

**Product Manufacturing Plant (needed at Product-Producing Plant ONLY):**
In case of insufficient ventilation wear suitable respiratory equipment

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State @20°C</strong></td>
<td>solid</td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>light green</td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Scented</td>
<td></td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Property</strong></td>
<td><strong>Values</strong></td>
<td><strong>Note</strong></td>
</tr>
<tr>
<td><strong>pH value</strong></td>
<td>10.0 - 11.5</td>
<td>(as 1% solution)</td>
</tr>
<tr>
<td><strong>Melting/freezing point</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Flammability Limits in Air</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Upper flammability limit</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Lower Flammability Limit</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.44</td>
<td></td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Autoignition temperature</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition temperature</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>Viscosity of Product</strong></td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td><strong>VOC Content (%)</strong></td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
None under normal use conditions.

**Stability**
Stable under normal conditions.

**Hazardous polymerization**
Hazardous polymerization does not occur.

**Hazardous Reactions**
None under normal processing.

**Conditions to Avoid**
None under normal processing.

**Materials to avoid**
None in particular.

**Hazardous Decomposition Products**
None under normal use.

### 11. TOXICOLOGICAL INFORMATION

**Product Information**
Information on likely routes of exposure

Inhalation
- No known effect.

Skin contact
- No known effect.

Ingestion
- No known effect.

Eye contact
- Irritating to eyes.

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

Acute toxicity
- No known effect.

Skin corrosion/irritation
- No known effect.

Serious eye damage/eye irritation
- Irritating to eyes.

Skin sensitization
- No known effect.

Respiratory sensitization
- No known effect.

Germ cell mutagenicity
- No known effect.

Neurological Effects
- No known effect.

Reproductive toxicity
- No known effect.

Developmental toxicity
- No known effect.

Teratogenicity
- No known effect.

STOT - single exposure
- No known effect.

STOT - repeated exposure
- No known effect.

Target Organ Effects
- No known effect.

Aspiration hazard
- No known effect.

Carcinogenicity
- No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>2800 mg/kg bw (Guideline not indicated; rat)</td>
<td>&gt; 2000 mg/kg bw (EPA 16 CFR 1500.40; rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>68081-81-2</td>
<td>1090.00 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Silicic acid, sodium salt</td>
<td>1344-09-8</td>
<td>3400 mg/kg bw (Similar to OECD 401; standard acute method; rat)</td>
<td>&gt; 5000 mg/kg bw (Read across data on AgSil TM 25 Potassium silicate solution; rat)</td>
<td>&gt; 2.06 mg/L air (Read across data AgSil TM 25 Potassium silicate solution; EPA OPPTS 870.1300; standard acute method; rat)</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability
- No information available.

Bioaccumulative potential
- No information available.

Mobility
- No information available.

Other adverse effects
- No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products
- Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging
- Disposal should be in accordance with applicable regional, national and local laws and regulations.
California Hazardous Waste Codes  331  
(non-household setting)

14. TRANSPORT INFORMATION

DOT Not regulated
IMDG Not regulated
IATA Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

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

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid sodium salt (1:2)</td>
<td>7757-82-6</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulfuric acid sodium salt (1:2)</td>
<td>7757-82-6</td>
<td>X</td>
</tr>
</tbody>
</table>

International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.
16. OTHER INFORMATION

HMIS Ratings
Health hazard  2
Flammability  1
Physical hazard  0

NFPA Ratings
Health hazard  2
Flammability  1
Instability  0

Issuing Date:  15-Jan-2015
Revision Date:  07-Apr-2015

Disclaimer
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End of SDS
# SAFETY DATA SHEET

**Issuing Date:** 09-Feb-2015  
**Revision Date:** 07-Apr-2015  
**Version:** 2

## 1. IDENTIFICATION

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Spic and Span® Disinfecting All-Purpose Spray and Glass Cleaner - Concentrated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Code(s)</td>
<td>3-05</td>
</tr>
<tr>
<td>Product ID:</td>
<td>92041835_PROF_NG</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Finished Product - Professional Use Only</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>Disinfectant</td>
</tr>
<tr>
<td>Restrictions on Use</td>
<td>Use only as directed on label.</td>
</tr>
</tbody>
</table>
| Manufacturer                        | Procter & Gamble Professional  
2 P&G Plaza                          
Cincinnati, Ohio 45202               
Procter & Gamble Inc.  
P.O. Box 355, Station A  
Toronto, ON M5W 1C5                  
1-800-332-7787                       |
| E-mail Address                      | pgsds.im@pg.com                                                                |
| Emergency Telephone                 | Transportation (24 HR)  
CHEMTREC - 1-800-424-9300  
(U.S./Canada) or 1-703-527-3887  
Mexico toll free in country: 800-681-9531 |

## 2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Eye Damage / Irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable Liquids</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

| Signal Word                     | DANGER    |

| Hazard Statements               | Causes severe skin burns and eye damage  
Combustible liquid               |

| Hazard pictograms               | ![Hazard Pictogram] |
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>-</td>
<td>No</td>
<td>112-34-5</td>
<td>10 - 15</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>-</td>
<td>No</td>
<td>112-25-4</td>
<td>5 - 10</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>-</td>
<td>No</td>
<td>78-96-6</td>
<td>5 - 10</td>
</tr>
<tr>
<td>D-Glucopyranose, oligomeric, decyl octyl glycosides</td>
<td>-</td>
<td>No</td>
<td>68515-73-1</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

Eye contact
Rinse with plenty of water. Call a physician immediately.

Skin contact
Rinse with plenty of water. Get medical attention if irritation develops and persists.

Ingestion
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

Inhalation
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed
None under normal use conditions.

Indication of immediate medical attention and special treatment needed, if necessary
5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
In case of fire: Use water, CO2, dry chemical, or foam for extinction.

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

Special hazard
Fumes may catch fire.

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

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol)</td>
<td>112-34-5</td>
<td>TWA: 10 ppm inhalable fraction and vapor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
No relevant exposure guidelines for other ingredients

**Exposure controls**

**Engineering Measures**

Distribution, Workplace and Household Settings: Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

**Personal Protective Equipment**

**Eye Protection**

Distribution, Workplace and Household Settings: Requires Eye Protection

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Safety glasses with side-shields
If splashes are likely to occur, wear:
Tightly fitting safety goggles

**Hand Protection**

Distribution, Workplace and Household Settings: Protective gloves

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

**Skin and Body Protection**

Distribution, Workplace and Household Settings: Wear suitable protective clothing

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

**Respiratory Protection**

Distribution, Workplace and Household Settings: No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

---

9. **PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>blue</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Scented</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
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<td></td>
</tr>
<tr>
<td>pH value</td>
<td>10.4 - 11.2</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>72.8 °C / 163 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity None under normal use conditions.

Stability Stable under normal conditions.

Hazardous polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

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

Materials to avoid None in particular.

Hazardous Decomposition Products None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information

Information on likely routes of exposure

Inhalation No known effect.
Skin contact May cause burns.
Ingestion No known effect.
Eye contact Risk of serious damage to eyes.

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

Acute toxicity No known effect.
Skin corrosion/irritation Causes severe burns.
Serious eye damage/eye irritation Risk of serious damage to eyes.
Skin sensitization No known effect.
Respiratory sensitization No known effect.
Germ cell mutagenicity No known effect.
Neurological Effects No known effect.
Reproductive toxicity No known effect.
Developmental toxicity No known effect.
Teratogenicity No known effect.
STOT - single exposure No known effect.
STOT - repeated exposure No known effect.
Target Organ Effects No known effect.
Aspiration hazard No known effect.
Carcinogenicity No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>2410 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>2813 mg/kg bw (Similar to OECD 401; BASF method)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic organisms.

Persistence and degradability  No information available.

Bioaccumulative potential No information available.

Mobility No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT

UN no UN1903
UN Proper shipping name Disinfectant, liquid, corrosive, n.o.s
Description UN1903, Disinfectant, liquid, corrosive, n.o.s (2-Hexyloxyethanol, 1-Aminopropan-2-ol), 8, III
Hazard Class 8
Packing Group III
Special Provisions IB3, T4, TP1
Emergency Response Guide Number 153

IMDG

UN Number UN1903
UN Proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Description UN1903, Disinfectant, liquid, corrosive, n.o.s. (2-Hexyloxyethanol, 1-Aminopropan-2-ol), III
Transport hazard class(es) 8
Packing Group III
Environmental Hazards Marine pollutant
Special precautions for user 223, 274
EmS-No F-A, S-B

IATA

UN no UN1903
UN Proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Description UN1903, Disinfectant, liquid, corrosive, n.o.s. (2-Hexyloxyethanol, 1-Aminopropan-2-ol), III
Hazard Class 8
Packing Group III
ERG Code 8L
Special precautions for user A3, A803
15. REGULATORY INFORMATION

U.S. Federal Regulations

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>1.0</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>1.0</td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC's per the Clean Air Act:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>X</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

California Proposition 65
This product is not subject to warning labeling under California Proposition 65. Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>X</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Massachusetts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>X</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>X</td>
</tr>
<tr>
<td>Ethanol</td>
<td>64-17-5</td>
<td>X</td>
</tr>
</tbody>
</table>
International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

FIFRA
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.

- EPA Registration number: 3573-96
- DANGER
- Corrosive
- Causes irreversible eye damage and skin burns
- HARMFUL IF ABSORBED THROUGH SKIN
- Harmful if inhaled

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Ratings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazard</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS Ratings</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health hazard</td>
<td>3</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Instability</td>
<td>0</td>
</tr>
</tbody>
</table>

Issuing Date: 09-Feb-2015
Revision Date: 07-Apr-2015

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

End of SDS
1. IDENTIFICATION

Product Name: Comet® Deodorizing Cleanser with Chlorinol®

Product Code(s): 3-10

Product ID: 97086927_PROF_NG

Product Type: Finished Product - Professional Use Only

Recommended Use: Hard Surface Cleaner

Restrictions on Use: Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

Manufacturer: Procter & Gamble Professional
2 P&G Plaza
Cincinnati, Ohio 45202

Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5

1-800-332-7787

E-mail Address: pgsds.im@pg.com

Emergency Telephone: Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard Category: Eye Damage / Irritation
Category 2B

Signal Word: WARNING

Hazard Statements: Causes eye irritation

Hazard pictograms: None

Precautionary Statements - Prevention: Wash hands thoroughly after handling
Do not mix with other cleaning products or chemicals as irritating fumes may be formed

Precautionary Statements - Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention
IF SWALLOWED:
Drink 1 or 2 glasses of water
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>-</td>
<td>No</td>
<td>1317-65-3</td>
<td>40 - 100</td>
</tr>
<tr>
<td>Sodium carbonate</td>
<td>-</td>
<td>No</td>
<td>497-19-8</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Symclosene</td>
<td>-</td>
<td>No</td>
<td>87-90-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Benzenesulfonic acid, mono-C10-16-alkyl derivs., sodium salts</td>
<td>-</td>
<td>No</td>
<td>68081-81-2</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

**Eye contact**
Rinse with plenty of water. Get medical attention immediately if irritation persists.

**Skin contact**
Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion**
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Inhalation**
Move to fresh air. If symptoms persist, call a physician.

**Most important symptoms/effects, acute and delayed**
None under normal use conditions.

**Indication of immediate medical attention and special treatment needed, if necessary**
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Dry chemical, CO₂, alcohol-resistant foam or water spray.

**Unsuitable Extinguishing Media**
None.

**Special hazard**
None known.

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

**Specific hazards arising from the chemical**
None.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment
Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up
Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

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

Incompatible products
Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction</td>
<td>Mexico: TWA 10 mg/m³</td>
<td>Mexico: STEL 20 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Alberta</th>
<th>Quebec</th>
<th>Ontario TWAEV</th>
<th>British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³</td>
<td>TWA: 10 mg/m³ TWA: 3 mg/m³ STEL: 20 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

No relevant exposure guidelines for other ingredients

Exposure controls

Engineering Measures
Distribution, Workplace and Household Settings:
Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment
Eye Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Use appropriate eye protection

Hand Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

Respiratory Protection

Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>solid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>white</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Pine</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value</td>
<td>11.5</td>
<td>(as 1% solution)</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>15%</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Viscosity of Product</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>These substances will accelerate burning when involved in a fire.</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>Products comply with US state and federal regulations for VOC content in consumer products.</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.
Stability
Stable under normal conditions.

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

Conditions to Avoid
None under normal processing.

Materials to avoid
Do not mix with other cleaning products or chemicals as irritating fumes may be formed.

Hazardous Decomposition Products
None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information
Information on likely routes of exposure

Inhalation
No known effect.

Skin contact
No known effect.

Ingestion
No known effect.

Eye contact
Irritating to eyes.

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

Acute toxicity
No known effect.

Skin corrosion/irritation
No known effect.

Serious eye damage/eye irritation
Irritating to eyes.

Skin sensitization
No known effect.

Respiratory sensitization
No known effect.

Germ cell mutagenicity
No known effect.

Neurological Effects
No known effect.

Reproductive toxicity
No known effect.

Developmental toxicity
No known effect.

Teratogenicity
No known effect.

STOT - single exposure
No known effect.

STOT - repeated exposure
No known effect.

Target Organ Effects
No known effect.

Aspiration hazard
No known effect.

Carcinogenicity
No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>2800 mg/kg bw</td>
<td>&gt; 2000 mg/kg bw (US EPA 16 CFR 1500.40)</td>
<td>-</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not expected to be hazardous to the environment.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS
Waste treatment

Waste from Residues / Unused Products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT Not regulated
IMDG Not regulated
IATA Not regulated

15. REGULATORY INFORMATION

U.S. Federal Regulations

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

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>CERCLA/SARA 302 TPQ</th>
</tr>
</thead>
<tbody>
<tr>
<td>Piperidine</td>
<td>110-89-4</td>
<td>-</td>
<td>1000 lb</td>
<td>1000 lb</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Symclosene</td>
<td>87-90-1</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>X</td>
</tr>
<tr>
<td>Symclosene</td>
<td>87-90-1</td>
<td>X</td>
</tr>
</tbody>
</table>
International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

16. OTHER INFORMATION

HMIS Ratings
Health hazard 2
Flammability 0
Physical hazard 0

Health hazard 2
Flammability 0
Instability 0

Issuing Date: 12-Jun-2015
Revision Date: 12-Jun-2015

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

End of SDS
SAFETY DATA SHEET


Brands: SWIFFER DRY and SWIFFER DUSTERS (Scented and Unscented).

P&G Telephone Number: 1-800-214-8734 or call Local Poison Control Center or your physician.


SECTION II - HAZARDS IDENTIFICATION

Potential Health Effects (Acute and Chronic): (See Section 11 for more information)

Ingestion: Mild gastrointestinal irritant. Ingestion of sheet or duster by a young child or household pet may lead to impaction of the gastrointestinal tract. A physician or veterinarian should be consulted.

Eye Contact: Eye contact possible. Scented sheets and dusters could produce mild eye irritation.

Skin Contact: Skin contact possible. Scented sheets and dusters could produce mild skin irritation.

Inhalation: N/A

SECTION III - COMPOSITION AND INGREDIENTS

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>COMMON NAME</th>
<th>CAS RN</th>
<th>Composition Range</th>
<th>LD50/LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION IV – FIRST AID INFORMATION

First Aid Procedures:
Ingestion: A physician or veterinarian should be consulted if ingestion of sheet or duster occurs or is suspected.
Eye Contact: If eye contact occurs, flush eye with water for 15 minutes.
Skin Contact: If skin irritation occurs, discontinue use and rinse with water.
Inhalation: N/A
Note to Physician: (if applicable) Treat symptomatically.
Other: Consumer product package has the following precautionary statement: KEEP OUT OF REACH OF CHILDREN AND PETS TO AVOID ACCIDENTAL INGESTION.

SECTION V - FIRE FIGHTING INFORMATION

Flash Point (Method Used): N/K
Flammable Properties:
Upper Flammable Limit: N/A
Lower Flammable Limit: N/A
Explosive Limits: UEL: N/A LEL: N/A
Auto-ignition Temperature: N/K
Hazardous Combustion Products: N/K
Explosion Data (Sensitivity to Mechanical Impact): N/A
Explosion Data (Sensitivity to Static Discharge): N/A
Extinguishing Media:
Suitable: CO₂, water, foam or dry chemical may be used.
Unsuitable: N/K
Protection of Firefighters:
Specific Hazards Arising from the Material: Hazardous gases/vapors produced in fire are: aldehydes, ethanol, methanol, acetic acid, acetone, paraffin, and carbon monoxide.
Protective Equipment and Precautions for Firefighters: No unusual precautions necessary. Normal firefighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL REGULATIONS. Non-biodegradable. The sheets and dusters are compatible with all available solid waste disposal technologies.
Methods for Containment: N/A
Methods for Cleanup: N/A
Other Information: (if applicable) Dry product may be landfilled if permitted by local regulations.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Store in a cool and dry area.
Precautions To Be Taken in Storage: None required.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines: No special precautions for normal household use.
Engineering Controls: None required.
Personal Protective Equipment (PPE): None required with normal consumer use
Eye/Face Protection: None required with normal consumer use
Skin Protection: None required with normal consumer use
Respiratory Protection: None required with normal consumer use

### SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (color, physical form, shape)</td>
<td>White/bluish-white in color, fluffy sheet or duster (solid).</td>
</tr>
<tr>
<td>Odor</td>
<td>Scented products are perfumed</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>NK</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>N/A</td>
</tr>
<tr>
<td>Volatile Organic Compound (VOC)</td>
<td>N/A – Product not regulated for VOC content at State or Federal level</td>
</tr>
<tr>
<td>Flash Point (Method Used)</td>
<td>N/A</td>
</tr>
<tr>
<td>Reserve Alkalinity</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate (nBuOAc=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity/Density (H₂O=1)</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>N/A</td>
</tr>
<tr>
<td>pH (100 % solution)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### SECTION X - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Avoid ignition sources and open flames</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>None known</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>None Known</td>
</tr>
<tr>
<td>Possibility of Hazardous Reactions</td>
<td>None Known</td>
</tr>
</tbody>
</table>

### SECTION XI - TOXICOLOGICAL INFORMATION

Swiffer Dry Sheets and Dusters are safe for consumers when used as directed.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Effects</td>
<td>No chronic health effects reported nor expected.</td>
</tr>
<tr>
<td>Target Organs</td>
<td>No target organs reported nor expected.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>This finished consumer product is not carcinogenic.</td>
</tr>
<tr>
<td>NTP</td>
<td>No</td>
</tr>
<tr>
<td>IARC</td>
<td>No</td>
</tr>
<tr>
<td>OSHA</td>
<td>No</td>
</tr>
</tbody>
</table>

### SECTION XII - ECOLOGICAL INFORMATION

Based on eco-toxicity and fate data for the individual ingredients in this product, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations.
SECTION XIII - DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Cartons as well as used and unused sheets and dusters are compatible with municipal solid waste systems and they will not pose a hazard to the environment when the waste is properly handled. Carton may be able to be recycled in your area.

**Non-Household Setting (US Federal):**
Products covered by this SDS, in their original form, when disposed as waste, are considered non-hazardous waste according to the federal RCRA Regulations (40 CFR 261). Disposal should be in accordance with the local, state and federal regulations.

**Household Use:** The sheets and dusters are compatible with all available solid waste technologies. Consumers may dispose with normal household waste and recycle cartons where these services exist.

SECTION XIV - TRANSPORT INFORMATION

Swiffer Dry Sheets and Dusters are not regulated for transportation.

**Ground Transport (US DOT):** Not regulated for ground transport

**Marine/Water (IMDG):** Not regulated

**Air (IATA):** Not regulated

SECTION XV - REGULATORY INFORMATION

**UNITED STATES**
All intentionally-added components of this product are listed on the US TSCA Inventory.

**EPA Registration Number:** Not Applicable

**SARA 313/302/304/311/312 chemicals:** None

**California:** This product has been evaluated and does not require warning labeling under California Proposition 65

**California Registration Number:** Not Applicable

**State Right-to-Know and CERCLA:**
The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>CAS #</th>
<th>LEVEL</th>
<th>CERCLA RQ</th>
<th>IL</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CANADA**
All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this SDS contains all information required by the Controlled Products Regulations.
### SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this SDS comply with appropriate IFRA guidance.

<table>
<thead>
<tr>
<th>P&amp;G Hazard Rating</th>
<th>Health</th>
<th>4=EXTREME</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flammability</td>
<td>3=HIGH</td>
</tr>
<tr>
<td></td>
<td>Reactivity</td>
<td>2=Moderate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1=SLIGHT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0=NOT SIGNIFICANT</td>
</tr>
</tbody>
</table>

* N/A. - Not Applicable  
* N/K. - Not Known

**DISCLAIMER:** This SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.
1. IDENTIFICATION

Product Name: Spic and Span® Disinfecting All-Purpose Spray and Glass Cleaner - Concentrated
Product Code(s): 3-05
Product ID: 92041835_PROF_NG
Product Type: Finished Product - Professional Use Only
Recommended Use: Disinfectant
Restrictions on Use: Use only as directed on label.
Manufacturer:
Procter & Gamble Professional
2 P&G Plaza
Cincinnati, Ohio 45202
Procter & Gamble Inc.
P.O. Box 355, Station A
Toronto, ON M5W 1C5
1-800-332-7787
E-mail Address: pgsds.im@pg.com
Emergency Telephone:
Transportation (24 HR)
CHEMTREC - 1-800-424-9300
(U.S./Canada) or 1-703-527-3887
Mexico toll free in country: 800-681-9531

2. HAZARD IDENTIFICATION

This product is classified under 29CFR 1910.1200(d) and the Canadian Hazardous Products Regulation as follows:

Hazard Category
Skin corrosion/irritation Category 1
Eye Damage / Irritation Category 1
Flammable Liquids Category 4

Signal Word: DANGER

Hazard Statements
Causes severe skin burns and eye damage
Combustible liquid

Hazard pictograms
3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients are listed according to 29CFR 1910.1200 Appendix D and the Canadian Hazardous Products Regulation

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Synonyms</th>
<th>Trade Secret</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>-</td>
<td>No</td>
<td>112-34-5</td>
<td>10 - 15</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>-</td>
<td>No</td>
<td>112-25-4</td>
<td>5 - 10</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>-</td>
<td>No</td>
<td>78-96-6</td>
<td>5 - 10</td>
</tr>
<tr>
<td>D-Glucopyranose, oligomeric, decyl octyl glycosides</td>
<td>-</td>
<td>No</td>
<td>68515-73-1</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures for different exposure routes

**Eye contact**
Rinse with plenty of water. Call a physician immediately.

**Skin contact**
Rinse with plenty of water. Get medical attention if irritation develops and persists.

**Ingestion**
Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Inhalation**
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician or poison control center immediately.

**Most important symptoms/effects, acute and delayed**
None under normal use conditions.

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

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media
In case of fire: Use water, CO2, dry chemical, or foam for extinction.

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

Special hazard
Fumes may catch fire.

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

Specific hazards arising from the chemical
None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
Use personal protective equipment. Do not get in eyes, on skin, or on clothing.

Advice for emergency responders
Use personal protective equipment as required.

Methods and materials for containment and cleaning up

Methods for containment
Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling
Keep away from open flames, hot surfaces and sources of ignition. Use personal protective equipment as required. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of the reach of children.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a cool/low-temperature, well-ventilated, dry place away from heat and ignition sources.

Incompatible products
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>Mexico PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol)</td>
<td>112-34-5</td>
<td>TWA: 10 ppm inhalable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol monobutyl ether</td>
<td></td>
<td>fraction and vapor</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Exposure controls

Engineering Measures  Distribution, Workplace and Household Settings:
Ensure adequate ventilation

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment

Eye Protection  Distribution, Workplace and Household Settings:
Requires Eye Protection

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Safety glasses with side-shields
If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand Protection  Distribution, Workplace and Household Settings:
Protective gloves

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Protective gloves

Skin and Body Protection  Distribution, Workplace and Household Settings:
Wear suitable protective clothing

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
Wear suitable protective clothing

Respiratory Protection  Distribution, Workplace and Household Settings:
No special protective equipment required

Product Manufacturing Plant (needed at Product-Producing Plant ONLY):
In case of insufficient ventilation wear suitable respiratory equipment

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State @20°C</td>
<td>liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>blue</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Scented</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>pH value</td>
<td>10.4 - 11.2</td>
<td></td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>72.8 °C / 163 °F</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Flammability Limits in Air</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>No information available</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
None under normal use conditions.

Stability
Stable under normal conditions.

Hazardous polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
None under normal processing.

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

Materials to avoid
None in particular.

Hazardous Decomposition Products
None under normal use.

11. TOXICOLOGICAL INFORMATION

Product Information
Information on likely routes of exposure

Inhalation
No known effect.

Skin contact
May cause burns.

Ingestion
No known effect.

Eye contact
Risk of serious damage to eyes.

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

Acute toxicity
No known effect.

Skin corrosion/irritation
Causes severe burns.

Serious eye damage/eye irritation
Risk of serious damage to eyes.

Skin sensitization
No known effect.

Respiratory sensitization
No known effect.

Germ cell mutagenicity
No known effect.

Neurological Effects
No known effect.

Reproductive toxicity
No known effect.

Developmental toxicity
No known effect.

Teratogenicity
No known effect.

STOT - single exposure
No known effect.

STOT - repeated exposure
No known effect.

Target Organ Effects
No known effect.

Aspiration hazard
No known effect.

Carcinogenicity
No known effect.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>2410 mg/kg (rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>2813 mg/kg bw (Similar to OECD 401; BASF method.)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic organisms.

Persistence and degradability
No information available.

Bioaccumulative potential
No information available.

Mobility
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from Residues / Unused Products
Disposal should be in accordance with applicable regional, national and local laws and regulations.

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

California Hazardous Waste Codes (non-household setting) 331

14. TRANSPORT INFORMATION

DOT
UN Number UN1903
UN Proper shipping name Disinfectant, liquid, corrosive, n.o.s
Description UN1903, Disinfectant, liquid, corrosive, n.o.s (2-Hexyloxyethanol, 1-Aminopropan-2-ol), 8, III
Hazard Class 8
Packing Group III
Special Provisions IB3, T4, TP1
Emergency Response Guide Number 153

IMDG
UN Number UN1903
UN Proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Description UN1903, Disinfectant, liquid, corrosive, n.o.s. (2-Hexyloxyethanol, 1-Aminopropan-2-ol), III
Transport hazard class(es) 8
Packing Group III
Environmental Hazards Marine pollutant
Special precautions for user 223, 274
EmS-No F-A, S-B

IATA
UN no UN1903
UN Proper shipping name DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Description UN1903, Disinfectant, liquid, corrosive, n.o.s. (2-Hexyloxyethanol, 1-Aminopropan-2-ol), III
Hazard Class 8
Packing Group III
ERG Code 8L
Special precautions for user A3, A803
15. REGULATORY INFORMATION

U.S. Federal Regulations

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>1.0</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>1.0</td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following substance(s) which are either listed as hazardous air pollutants (HAPS) or VOC’s per the Clean Air Act:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>X</td>
</tr>
</tbody>
</table>

Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

California Proposition 65
This product is not subject to warning labeling under California Proposition 65. Ethanol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

U.S. State Regulations (RTK)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Butoxyethoxy ethanol) Diethylene glycol monobutyl ether</td>
<td>112-34-5</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Hexyloxyethanol</td>
<td>112-25-4</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-Aminopropan-2-ol</td>
<td>78-96-6</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
International Inventories

United States
All intentionally-added components of this product(s) are listed on the US TSCA Inventory.

Canada
This product is in compliance with CEPA for import by P&G.

Legend
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CEPA - Canadian Environmental Protection Act

FIFRA
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.

- EPA Registration number: 3573-96
- DANGER
- Corrosive
  - Causes irreversible eye damage and skin burns
  - HARMFUL IF ABSORBED THROUGH SKIN
- Harmful if inhaled

16. OTHER INFORMATION

HMIS Ratings

| Health hazard | 3 |
| Flammability  | 1 |
| Physical hazard | 0 |

| Health hazard | 3 |
| Flammability  | 1 |
| Instability   | 0 |

Issuing Date: 09-Feb-2015
Revision Date: 07-Apr-2015

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

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

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

- 1.1 Product identifier
- Trade name: Sheila Shine (Aerosol)
- 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 Polishing agent/ Burnishing compound
- 1.3 Details of the supplier of the Safety Data Sheet
  Manufacturer/Supplier:
  Sheila Shine Inc.
  7725 W 2nd Court
  Hialeah, FL 33014
  Phone: (305) 557-1729
- 1.4 Emergency telephone number:
  ChemTel Inc.
  (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 following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.

flammable


health hazard

Carc. 1B  H350  May cause cancer.

Skin Irrit. 2  H315  Causes skin irritation.

Aquatic Chronic 3  H412  Harmful to aquatic life with long lasting effects.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  T; Toxic
  R45:  May cause cancer.
  Xi; Irritant
  R38:  Irritating to skin.

(Contd. on page 2)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

Printing date 01.08.2014
Revision: 01.08.2014

Trade name: Sheila Shine (Aerosol)

N: Dangerous for the environment
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

- Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

- Hazard pictograms

GHS02 GHS07 GHS08

- Signal word Danger

- Hazard-determining components of labelling:
Distillates (petroleum), solvent-refined light paraffinic
Distillates (petroleum), solvent-refined heavy paraffinic
tetrachloroethylene
ethylbenzene

- Hazard statements
The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H412.
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H350 May cause cancer.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P251 Pressurized container: Do not pierce or burn, even after use.
P211 Do not spray on an open flame or other ignition source.
P281 Use personal protective equipment as required.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:
Restricted to professional users.

(Contd. of page 1)
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. 16.0 % by mass of the contents are flammable

Hazard description:
WHMIS-symbols:
B2 - Flammable liquid
D2A - Very toxic material causing other toxic effects

 NFPA ratings (scale 0 - 4)
- Health = 1
- Fire = 3
- Reactivity = 0

HMIS-ratings (scale 0 - 4)
- HEALTH Health = *1
- FIRE Fire = 3
- REACTIVITY Reactivity = 0
* - Indicates a long term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances
- 100-41-4 ethylbenzene
- 127-18-4 tetrachloroethylene

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
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:
- CAS: 64741-89-5
- EINECS: 265-091-3
- Index number: 649-455-00-2
- Distillates (petroleum), solvent-refined light paraffinic
- C202: F1B, H350

(Contd. of page 4)
SECTION 4: First aid measures

4.1 Description of first aid measures

General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
Take affected persons out into the fresh air.
Immediately remove any clothing soiled by the product.

After inhalation:
Supply fresh air; consult doctor in case of complaints.
Provide oxygen treatment if affected person has difficulty breathing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
Unlikely route of exposure.
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
  - Water haze or fog
  - Foam
  - Fire-extinguishing powder
  - Carbon dioxide

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

- **5.2 Special hazards arising from the substance or mixture**
  - Danger of receptacles bursting because of high vapour pressure when heated.
  - During heating or in case of fire poisonous gases are produced.

- **5.3 Advice for firefighters**
- **Protective equipment:**
  - Wear self-contained respiratory protective device.
  - Wear fully protective suit.

- **Additional information**
  - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
  - Eliminate all ignition sources if safe to do so.
  - Cool endangered receptacles with water fog or haze.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Use respiratory protective device against the effects of fumes/dust/aerosol.
Safety Data Sheet according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 01.08.2014 Revision: 01.08.2014

Trade name: Sheila Shine (Aerosol)

Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Keep away from ignition sources.
Keep people at a distance and stay on the windward side.
Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:
Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).
Remove from the water surface (e.g. skim or suck off).
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.
Used rags or other cleaning materials should be soaked with water and placed in a sealed container.

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
Keep away from heat and direct sunlight.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.
Rags, metal wools / cuttings / shavings and waste papers soaked with product must be placed in a sealed metal container rated for flammable waste.

Information about fire - and explosion protection:
Emergency cooling must be available in case of nearby fire.
Keep ignition sources away - Do not smoke.
Prevent impact and friction.
Flammable gas-air mixtures may form in empty receptacles.
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.

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.

Information about storage in one common storage facility:
Store away from foodstuffs.
Store away from oxidizing agents.

Further information about storage conditions:
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

7.3 Specific end use(s) No further relevant information available.
## SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities**: No further data; see item 7.
- **8.1 Control parameters**

### Ingredients with limit values that require monitoring at the workplace:

#### 127-18-4 tetrachloroethylene

<table>
<thead>
<tr>
<th>Source</th>
<th>Long-term value</th>
<th>Short-term value</th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEL (USA)</td>
<td>100 ppm</td>
<td>685 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>Minimize workplace exp. concs.; Pocket Guide App. A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>170 mg/m³, 25 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>100 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 1330-20-7 xylene

<table>
<thead>
<tr>
<th>Source</th>
<th>Long-term value</th>
<th>Short-term value</th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
<td>442 mg/m³, 100 ppm</td>
<td>221 mg/m³, 50 ppm</td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>435 mg/m³, 100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>655 mg/m³, 150 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>435 mg/m³, 100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EL (Canada)</td>
<td>150 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>650 mg/m³, 150 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 100-41-4 ethylbenzene

<table>
<thead>
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<th>Source</th>
<th>Long-term value</th>
<th>Short-term value</th>
<th>BEI</th>
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</thead>
<tbody>
<tr>
<td>IOELV (EU)</td>
<td>884 mg/m³, 200 ppm</td>
<td>442 mg/m³, 100 ppm</td>
<td></td>
</tr>
<tr>
<td>PEL (USA)</td>
<td>435 mg/m³, 100 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REL (USA)</td>
<td>545 mg/m³, 125 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TLV (USA)</td>
<td>435 mg/m³, 100 ppm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Contd. on page 8)
Trade name: Sheila Shine (Aerosol)

<table>
<thead>
<tr>
<th>Country</th>
<th>Value</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL (Canada)</td>
<td>Long-term value: 20 ppm</td>
<td>IARC 2B</td>
</tr>
<tr>
<td>EV (Canada)</td>
<td>Short-term value: 540 mg/m³, 125 ppm</td>
<td>Long-term value: 435 mg/m³, 100 ppm</td>
</tr>
</tbody>
</table>

- DNELs: No further relevant information available.
- PNECs: No further relevant information available.

**Ingredients with biological limit values:**

**127-18-4 tetrachloroethylene**

<table>
<thead>
<tr>
<th>BET (USA)</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 ppm</td>
<td></td>
<td>end-exhaled air</td>
<td>prior to shift</td>
<td>Tetrachloroethylene</td>
</tr>
<tr>
<td>0.5 mg/L</td>
<td></td>
<td>blood</td>
<td>prior to shift</td>
<td>Tetrachloroethylene</td>
</tr>
</tbody>
</table>

**1330-20-7 xylene**

<table>
<thead>
<tr>
<th>BET (USA)</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 g/g creatinine</td>
<td></td>
<td>urine</td>
<td>end of shift</td>
<td>Methylhippuric acids</td>
</tr>
</tbody>
</table>

**100-41-4 ethylbenzene**

<table>
<thead>
<tr>
<th>BET (USA)</th>
<th>Value</th>
<th>Medium</th>
<th>Time</th>
<th>Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.7 g/g creatinine</td>
<td></td>
<td>urine</td>
<td>end of shift</td>
<td>Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>not critical</td>
<td>Ethyl benzene (semi-quantitative)</td>
</tr>
</tbody>
</table>

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls**

**Personal protective equipment:**

- **General protective and hygienic measures:**
  - The usual precautionary measures are to be adhered to when handling chemicals.
  - Keep away from foodstuffs, beverages and feed.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
  - Do not inhale gases / fumes / aerosols.
  - Do not carry product impregnated cleaning cloths in trouser pockets.

- **Respiratory protection:**
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - For spills, respiratory protection may be advisable.
  - NIOSH or EN approved organic vapor respirator equipped with a dust/mist prefilter should be used.
• **Protection of hands:**

  Protective gloves

  The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

  **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.

  **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

  **Body protection:** Protective work clothing

  **Limitation and supervision of exposure into the environment**
  No further relevant information available.

  **Risk management measures**
  See Section 7 for additional information.
  No further relevant information available.

---

**SECTION 9: Physical and chemical properties**

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

  **General Information**

  **Appearance:**
  - **Form:** Liquid
  - **Colour:** Clear
  - **Odour:** Pleasant
  - **Odour threshold:** Not determined.
  - **pH-value:** Not determined.

  **Change in condition**
  - **Melting point/Melting range:** Not Determined.
  - **Boiling point/Boiling range:** 230 °F / 110 °C
  - **Flash point:** 127 °F / 53 °C (TOC)
  - **Flammability (solid, gaseous):** Not applicable.
  - **Auto/Self-ignition temperature:** Not determined.
Trade name: Sheila Shine (Aerosol)

- Decomposition temperature: Not determined.
- Self-igniting: Product is not self-igniting.
- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
  - Lower: 1.1 Vol % (estimated)
  - Upper: 7.0 Vol % (estimated)
- Vapour pressure at 20 °C: (Liquid) 10 mmHg ((Propellant) 838 psig)
- Density at 20 °C: 0.964 g/cm³
- Relative density: Not determined.
- Vapour density at 20 °C: > 1 (air = 1)
- Evaporation rate at 20 °C: < 1 (butyl acetate = 1)
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 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
  Develops readily flammable gases/fumes.
  Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
  Reacts with strong acids and oxidizing agents.
  Reacts with certain metals.
  Toxic fumes may be released if heated above the decomposition point.
- 10.4 Conditions to avoid Keep ignition sources away - Do not smoke.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products:
  Carbon monoxide and carbon dioxide
  Hydrocarbons
  Chlorine compounds
SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute toxicity:
  - LD/LC50 values relevant for classification:
    - 127-18-4 tetrachloroethylene
      - Oral LD50 2629 mg/kg (rat)
    - 1330-20-7 xylene
      - Oral LD50 4300 mg/kg (rat)
      - Dermal LD50 2000 mg/kg (rabbit)
    - Primary irritant effect:
      - on the skin: Irritant to skin and mucous membranes.
      - on the eye: Slight irritant effect on eyes.
      - Sensitization: No sensitizing effects known.
    - Additional toxicological information:
      The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
      - Irritant
      - May cause cancer.
      - May cause acne.
      - Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
      - Acute effects (acute toxicity, irritation and corrosivity):
        - Vapours have narcotic effect.
        - May be harmful if inhaled.
      - Repeated dose toxicity: May cause damage to organs through prolonged or repeated exposure.
      - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
        - Carc. 1B

SECTION 12: Ecological information

12.1 Toxicity

- Aquatic toxicity: Toxic for aquatic organisms
- 12.2 Persistence and degradability The product is partially biodegradable. Significant residuals remain.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxic effects:
- Remark:
  - Toxic for fish
  - Due to mechanical actions of the product (e.g. agglutinations) damages may occur.
- Additional ecological information:
- General notes:
  - Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
  - Do not allow product to reach ground water, water course or sewage system, even in small quantities.
  - Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. of page 10)

(Contd. on page 12)
SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
  The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - DOT, ADR, IMDG, IATA
  UN1950

- 14.2 UN proper shipping name
  - DOT
    Aerosols
  - ADR
    1950 AEROSOLS
  - IMDG
    AEROSOLS, FLAMMABLE, MARINE POLLUTANT
  - IATA
    AEROSOLS, flammable

- 14.3 Transport hazard class(es)
  - DOT
    ![Hazard Class Icons]
    - Class
      2.1
    - Label
      2.1+6.1
  - ADR
    ![Hazard Class Icons]
    - Class
      2  5F Gases.
Trade name: Sheila Shine (Aerosol)

<p>| | |</p>
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</tbody>
</table>

- **Label**: 2.1+6.1

### IMDG

- **Class**: 2.1
- **Label**: 2.1+6.1

### IATA

- **Class**: 2.1
- **Label**: 2.1+6.1
- **14.4 Packing group**: Not Regulated
- **DOT, ADR, IMDG, IATA**: Product contains environmentally hazardous substances: tetrachloroethylene
- **Marine pollutant**: Yes
- **Special marking (ADR)**: Symbol (fish and tree)
- **14.6 Special precautions for user**: Warning: Gases.
- **Danger code (Kemler)**: -
- **EMS Number**: F-D,S-U
- **Segregation groups**: Liquid halogenated hydrocarbons
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**: Not applicable.

### Transport/Additional information:

- **ADR**
  - **Limited quantities (LQ)**: 120 ml
  - **Excepted quantities (EQ)**: Code: E0
  - **Transport category**: Not permitted as Excepted Quantity
  - **Tunnel restriction code**: D

- **IMDG**
  - **Limited quantities (LQ)**: 1L
  - **Excepted quantities (EQ)**: Code: E0
  - **DOT**: May be reclassified as Combustible Liquid for transport by highway or rail.
  - **UN "Model Regulation"**: UN1950, AEROSOLS, 2.1 (6.1)
### 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 is listed.
    - **Section 313 (Specific toxic chemical listings):**
      - 127-18-4 tetrachloroethylene
      - 1330-20-7 xylene
      - 100-41-4 ethylbenzene
    - **TSCA (Toxic Substances Control Act):**
      - All ingredients are listed.
    - **Proposition 65 (California):**
      - **Chemicals known to cause cancer:**
        - 127-18-4 tetrachloroethylene
        - 100-41-4 ethylbenzene
      - **Chemicals known to cause reproductive toxicity for females:**
        - None of the ingredients are listed.
      - **Chemicals known to cause reproductive toxicity for males:**
        - None of the ingredients is listed.
      - **Chemicals known to cause developmental toxicity:**
        - None of the ingredients is listed.
    - **Carcinogenic Categories**
      - **EPA (Environmental Protection Agency)**
        - 127-18-4 tetrachloroethylene L
        - 1330-20-7 xylene I
        - 100-41-4 ethylbenzene D
      - **IARC (International Agency for Research on Cancer)**
        - 127-18-4 tetrachloroethylene 2A
        - 1330-20-7 xylene 3
        - 100-41-4 ethylbenzene 2B
      - **TLV (Threshold Limit Value established by ACGIH)**
        - 127-18-4 tetrachloroethylene A3
        - 1330-20-7 xylene A4
        - 100-41-4 ethylbenzene A3
      - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
        - 127-18-4 tetrachloroethylene

(Contd. on page 15)
Trade name: Sheila Shine (Aerosol)

- Canada
  - Canadian Domestic Substances List (DSL)
    All ingredients are listed.
  - Canadian Ingredient Disclosure list (limit 0.1%)
    100-41-4 | ethylbenzene
  - Canadian Ingredient Disclosure list (limit 1%)
    127-18-4 | tetrachloroethylene

- Information about limitation of use:
  Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

- Other regulations, limitations and prohibitive regulations
  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- Substances of very high concern (SVHC) according to REACH, Article 57
  None of the ingredients is 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
  - H225  Highly flammable liquid and vapour.
  - H226  Flammable liquid and vapour.
  - H280  Contains gas under pressure; may explode if heated.
  - H312  Harmful in contact with skin.
  - H315  Causes skin irritation.
  - H332  Harmful if inhaled.
  - H350  May cause cancer.
  - H351  Suspected of causing cancer.
  - H411  Toxic to aquatic life with long lasting effects.
  - H412  Harmful to aquatic life with long lasting effects.
  - R10  Flammable.
  - R11  Highly flammable.
  - R20  Harmful by inhalation.
  - R20/21 Harmful by inhalation and in contact with skin.
  - R38  Irritating to skin.
  - R40  Limited evidence of a carcinogenic effect.
  - R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  DOT: US Department of Transportation

(Contd. on page 16)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 01.08.2014
Revision: 01.08.2014

Trade name: Sheila Shine (Aerosol)

IATA: International Air Transport Association
GHS: Globally Harmonized 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)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
Press. Gas: Gases under pressure: Liquefied gas
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Carc. 1B: Carcinogenicity, Hazard Category 1B
Carc. 2: Carcinogenicity, Hazard Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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

(Contd. of page 15)
SAFETY DATA SHEET

Section 1. Identification

<table>
<thead>
<tr>
<th>GHS product identifier</th>
<th>Supreme Court</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product type</td>
<td>Liquid</td>
</tr>
</tbody>
</table>

Relevant identified uses of the substance or mixture and uses advised against

Not applicable.

Supplier's details

Alco-Chem, Inc.
45 N. Summit Street
Akron, OH 44308
Phone: 330-253-3535

Emergency telephone number (with hours of operation)

800-255-3924

Section 2. Hazards identification

OSHA/HCS status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 28%
There is no toxicity data available for the polymer in this product, which is exempt and categorized in a low concern functional group under the EPA’s Toxic Substances Control Act (TSCA).

GHS label elements

Signal word

No signal word.

Hazard statements

No known significant effects or critical hazards.

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

Not applicable

Response

Not applicable

Storage

Not applicable

Disposal

Not applicable

Hazards not otherwise classified

None known.

Date of issue/Date of revision: 12/8/2014. Date of previous issue: No previous validation. Version: 0.01 1/11
Section 3. Composition/information on ingredients

**Substance/mixture**: Mixture

**Other means of identification**: Not available

**CAS number/other identifiers**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>112-34-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>1 - 5</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

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

**Section 4. First aid measures**

**Description of necessary first aid measures**

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation**: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

**Eye contact**: No known significant effects or critical hazards.

**Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

**Ingestion**: No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

**Eye contact**: No specific data.

**Inhalation**: No specific data.

**Skin contact**: No specific data.

**Ingestion**: No specific data.

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

**Notes to physician**: 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.
Section 4. First aid measures

Specific treatments : No specific treatment.
Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

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

Specific hazards arising from the chemical

Hazardous thermal decomposition products : In a fire or if heated, a pressure increase will occur and the container may burst.

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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

Section 6. Accidental release measures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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

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

Methods and materials for containment and cleaning up

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

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

Date of issue/Date of revision : 12/8/2014. Date of previous issue : No previous validation. Version : 0.01 3/11
**Section 7. Handling and storage**

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

**Conditions for safe storage, including any incompatibilities**: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Section 8. Exposure controls/personal protection**

**Control parameters**

**Ingredient name**

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>ACGIH TLV (United States, 6/2013).</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 ppm 8 hours. Form: Inhalable fraction and vapor</td>
</tr>
<tr>
<td></td>
<td>AIHA WEEL (United States, 10/2011). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 10 ppm 8 hours.</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>ACGIH TLV (United States, 6/2013).</td>
</tr>
<tr>
<td></td>
<td>TWA: 20 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 25 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 120 mg/m³ 8 hours.</td>
</tr>
<tr>
<td></td>
<td>NIOSH REL (United States, 4/2013). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 5 ppm 10 hours.</td>
</tr>
<tr>
<td></td>
<td>OSHA PEL (United States, 2/2013). Absorbed through skin.</td>
</tr>
<tr>
<td></td>
<td>TWA: 50 ppm 8 hours.</td>
</tr>
<tr>
<td></td>
<td>TWA: 240 mg/m³ 8 hours.</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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

**Individual protection measures**
Section 8. Exposure controls/personal protection

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

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

Skin protection

Hand protection  : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection  : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection  : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection  : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance

Physical state  : Liquid
Color  : Light Yellow
Odor  : Bland
Odor threshold  : Not available
pH  : 7.5 to 8.5
Melting point  : 0°C (32°F)
Boiling point  : 100°C (212°F)
Flash point  : Closed cup: >93.344°C (>200°F)
Evaporation rate  : Not available
Flammability (solid, gas)  : Not available
Lower and upper explosive (flammable) limits  : Not available
Vapor pressure  : <4 kPa (<30 mm Hg) [room temperature]
Vapor density  : <1 [Air = 1]
Specific gravity  : 1.04 g/cm³
Solubility  : Not available

Partition coefficient: n-octanol/water  : Not available
Auto-ignition temperature  : Not available
Viscosity  : Not available
VOC content  : 254 g/l

VOCs are calculated following the requirements under 40 CFR, Part 59, Subpart C for Consumer Products and Subpart D for Architectural Coatings.

Date of issue/Date of revision  : 12/8/2014.
Date of previous issue  : No previous validation.
Version  : 0.01
Section 10. Stability and reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>2700 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>4500 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>LC50 Inhalation Gas.</td>
<td>Rat</td>
<td>3914 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>220 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>250 mg/kg</td>
<td>-</td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>20 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>Eyes - Moderate irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Severe irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>100 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>OSHA</th>
<th>IARC</th>
<th>NTP</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>-</td>
<td>3</td>
<td>-</td>
</tr>
</tbody>
</table>

Date of issue/Date of revision: 12/8/2014. Date of previous issue: No previous validation. Version: 0.01 6/11
Section 11. Toxicological information

**Reproductive toxicity**
Not available.

**Teratogenicity**
Not available.

**Specific target organ toxicity (single exposure)**
Not available.

**Specific target organ toxicity (repeated exposure)**
Not available.

**Aspiration hazard**
Not available.

**Information on the likely routes of exposure**
- **Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards.
- **Ingestion**: No known significant effects or critical hazards.
- **Skin contact**: No known significant effects or critical hazards.
- **Eye contact**: No known significant effects or critical hazards.

**General**
Not available.

**Symptoms related to the physical, chemical and toxicological characteristics**
- **Eye contact**: No specific data.
- **Inhalation**: No specific data.
- **Skin contact**: No specific data.
- **Ingestion**: No specific data.

**Potential acute health effects**
- **Eye contact**: No known significant effects or critical hazards.
- **Inhalation**: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. No known significant effects or critical hazards.
- **Skin contact**: No known significant effects or critical hazards.
- **Ingestion**: No known significant effects or critical hazards.

**Potential chronic health effects**
- **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

**Developmental effects**
- **General**: No known significant effects or critical hazards.
- **Carcinogenicity**: No known significant effects or critical hazards.
- **Mutagenicity**: No known significant effects or critical hazards.
- **Teratogenicity**: No known significant effects or critical hazards.
- **Fertility effects**: No known significant effects or critical hazards.
**Section 11. Toxicological information**

**Numerical measures of toxicity**

**Acute toxicity estimates**

<table>
<thead>
<tr>
<th>Route</th>
<th>ATE value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>10633.3 mg/kg</td>
</tr>
<tr>
<td>Dermal</td>
<td>9945.3 mg/kg</td>
</tr>
<tr>
<td>Inhalation (gases)</td>
<td>25570.3 ppm</td>
</tr>
</tbody>
</table>

**Section 12. Ecological information**

**Toxicity**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>Acute LC50 1300000 µg/l Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>Acute LC50 1.23 ppm Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>Acute LC50 832 ppm Fresh water</td>
<td>Fish - Lepomis macrochirus</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 1000 mg/l Fresh water</td>
<td>Daphnia - Daphnia magna</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 800000 µg/l Marine water</td>
<td>Crustaceans - Crangon crangon</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute LC50 1250000 µg/l Marine water</td>
<td>Fish - Menidia beryllina</td>
<td>96 hours</td>
</tr>
</tbody>
</table>

**Persistence and degradability**

Not available.

**Bioaccumulative potential**

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>1</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>-0.46</td>
<td>-</td>
<td>low</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>0.81</td>
<td>-</td>
<td>low</td>
</tr>
</tbody>
</table>

**Mobility in soil**

Soil/water partition coefficient (K<sub>OC</sub>): 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Section 14. Transport information

<table>
<thead>
<tr>
<th>DOT Classification</th>
<th>IMDG</th>
<th>IATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Packing group</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>No.</td>
<td>No.</td>
</tr>
<tr>
<td>Additional information</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**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.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available.

Section 15. Regulatory information

**U.S. Federal regulations**: United States inventory (TSCA 8b): All components are listed or exempted.

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)**: Listed

**SARA 311/312 Classification**: Not applicable

**Composition/information on ingredients**

<table>
<thead>
<tr>
<th>Name</th>
<th>%</th>
<th>Fire hazard</th>
<th>Sudden release of pressure</th>
<th>Reactive</th>
<th>Immediate (acute) health hazard</th>
<th>Delayed (chronic) health hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>1 - 5</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>1 - 5</td>
<td>Yes.</td>
<td>No.</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
</tr>
</tbody>
</table>

**SARA 313**

<table>
<thead>
<tr>
<th>Product name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R - Reporting requirements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-(2-butoxyethoxy)ethanol</td>
<td>112-34-5</td>
<td>4.0</td>
</tr>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>3.2</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>1.3</td>
</tr>
</tbody>
</table>

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Date of issue/Date of revision: 12/8/2014. Date of previous issue: No previous validation. Version: 0.01 9/11
Section 15. Regulatory information

State regulations
California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Cancer</th>
<th>Reproductive</th>
<th>No significant risk level</th>
<th>Maximum acceptable dosage level</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-methyl-2-pyrrolidone</td>
<td>No.</td>
<td>Yes.</td>
<td>No.</td>
<td>3200 µg/day (inhalation)</td>
</tr>
</tbody>
</table>

International regulations

Canada inventory : All components are listed or exempted.

Section 16. Other information

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

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910, 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of printing : 12/8/2014.
Date of issue/Date of revision : 12/8/2014.
Date of previous issue : No previous validation.
Section 16. Other information

Key to abbreviations

ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
UN = United Nations

References

Not available

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.
Section I  Product Identification

Product Name: 905 T.B. QUAT
Proper Shipping Name: Cleaning compounds, liquid
Generic Name: RTU DISINFECTANT CLEANER
Chemical Family: N/A
Supplier's Name: ALCO Chemical, Inc.
Formula: N/A
Supplier's Address: 45 North Summit Street
Akron, Ohio 44308
Supplier's Phone: (330) 253-3535
EMERGENCY/CHEM*TEL: 1-800-255-3924

Section II  Ingredients Listed as Hazardous According to OSHA 29CFR1910

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS #</th>
<th>WT%</th>
<th>TWA</th>
<th>STEL</th>
<th>CEILING</th>
<th>CARCINOGENIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetrasodium EDTA</td>
<td>64-02-8</td>
<td>1-2</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
<tr>
<td>*Diethylene Glycol Monobutyl Ether</td>
<td>112-34-5</td>
<td>5-10</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
<td>No</td>
</tr>
</tbody>
</table>

(* Indicates SARA Title 313)

Section III  Physical Data

Boiling Range: 212°F (initial)
% Solids by Weight: N/A
Evaporative Rate (water = 1): <1
Specific Gravity: 1.01

Vapor Pressure: N/A
% Solubility in Water: 100%
Vapor Density (air = 1): >1
Volatiles: 90+

Physical Description: Yellow liquid with a grapefruit scent
pH: 12-13

Section IV  Fire & Explosion Hazards

Flash Point: N/A
Method used: N/A
Health: 2

Flammability Limits (LEL/UEL): N/A N/A
Extinguishing Media: N/A
Flammability: 0

Special Fire Fighting Procedures: N/A
Reactivity: 0

Unusual Fire & Explosion Hazards: N/A
M.P.P.: B

Section V  Health Hazard Data

Threshold Limit Value: N/A
Primary Routes of Entry: Eyes, Skin, Ingestion
Permissible Exposure Limit: N/A

Emergency and First Aid Procedures:

Skin: Flush with water 15 minutes.
Eyes: Flush with water for 15 minutes and seek doctor.
Ingestion: Drink large amounts of water and seek doctor.

Section VI  Reactivity Data

Stability: STABLE
Incompatibility (material to avoid): Strong Acids, Oxidizers
Hazardous Polymerization: Will Not Occur
Hazardous Decomposition Products: None known

Section VII  Spill or Leak Procedures

Steps to be taken in case material is released or spilled:
Mop up and dispose of properly.
Waste disposal method: Any method in accordance with applicable laws
Volatile organic compounds (VOC): N/A
RCRA hazardous waste number (40 CFR 261.33): N/A
CERCLA (superfund) reportable quantity (in lbs): N/A

Section VIII  Special Protection Data

Respiratory protection (specific type): No special requirements.
Protective gloves (specific type): Waterproof gloves recommended.
Eye protection: Safety glasses recommended.
Other protective equipment: No special requirements.
Ventilation: Provide local exhaust to keep TLV of section II ingredients, if applicable, below acceptable levels.

Section IX  Special Precautions

KEEP AWAY FROM CHILDREN
KEEP CONTAINER CLOSED DURING STORAGE.
FOR INSTITUTIONAL USE

The above information pertains to this product as currently formulated and is based on the information available at this time. It does not constitute a warranty, express or implied, as to the accuracy of the information contained herein. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State and Local laws and regulations.
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name: A07712OS TM CITRUS 9000 L1 12N7.5 4/CS

Material number: 00000000001042649

Manufacturer or supplier's details

Company: Zep Inc.
Address: 1310 Seaboard Industrial Blvd., NW
          Atlanta, GA 30318
Telephone: 404-352-1680

Emergency telephone numbers

For SDS Information: Compliance Services 1-877-428-9937
For a Medical Emergency: 877-541-2016 Toll Free - All Calls Recorded
For a Transportation Emergency: CHEMTREC: 800-424-9300 - All Calls Recorded.
In the District of Columbia 202-483-7616

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: Aerosol containing a liquefied gas
Colour: colourless
Odour: characteristic

GHS Classification

Flammable aerosols: Category 2
Gases under pressure: Liquefied gas
Eye irritation: Category 2A
Specific target organ toxicity - single exposure: Category 3 (Central nervous system)

GHS Label element

Hazard pictograms: 

Signal word: Warning

Hazard statements: H223 Flammable aerosol.
                  H280 Contains gas under pressure; may explode if heated.
                  H319 Causes serious eye irritation.
                  H336 May cause drowsiness or dizziness.

Precautionary statements: Prevention:
                          P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
                          P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.

Response:
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Disposal:
P501 Dispose of contents/container in accordance with local regulation.

Potential Health Effects

Carcinogenicity:

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
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td>&gt;= 50 - &lt; 70</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
<tr>
<td>alkanes, C12-14-iso-</td>
<td>68551-19-9</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.

If inhaled: Remove to fresh air.
Call a physician or poison control centre immediately.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes.
Call a physician if irritation persists.

In case of eye contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Seek medical advice.

If swallowed: If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
Never give anything by mouth to an unconscious person.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Foam
Carbon dioxide (CO2)
Water spray

Hazardous combustion products: Carbon dioxide (CO2)
Carbon monoxide
Smoke

Specific extinguishing methods:

Further information: For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

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.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions: Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Sweep up and shovel into suitable containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
Do not breathe vapours/dust. Keep away from fire (No Smoking). Do not swallow. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. Use only with adequate ventilation.

Conditions for safe storage:
BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid:
Keep away from oxidising agents and strongly acid or alkaline materials.

Storage temperature:
< 49 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td>TWA</td>
<td>1,000 ppm</td>
<td>US WEEL</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>TWA</td>
<td>200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>400 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>500 ppm 1,225 mg/m3</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>400 ppm 980 mg/m3</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL</td>
<td>500 ppm 1,225 mg/m3</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
</table>
SAFETY DATA SHEET

A07712OS TM CITRUS 9000 L1 12N7.5 4/CS

Version 1.0 Revision Date 02/11/2015 Print Date 06/29/2015

<table>
<thead>
<tr>
<th>PROPLAN-2-OL</th>
<th>67-63-0</th>
<th>Acetone</th>
<th>Urine</th>
<th>End of shift at end of workweek</th>
<th>40 mg/l</th>
<th>ACGIH BEI</th>
</tr>
</thead>
</table>

### Personal protective equipment

**Respiratory protection**: In the case of vapour formation use a respirator with an approved filter. In the case of dust or aerosol formation use respirator with an approved filter.

**Hand protection**

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

**Eye protection**: Eye wash bottle with pure water. Tightly fitting safety goggles. Wear face-shield and protective suit for abnormal processing problems.

**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**: Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance**: Aerosol containing a liquefied gas
- **Colour**: Colourless
- **Odour**: Characteristic
- **Odour Threshold**: No data available
- **pH**: Not applicable
- **Melting point/freezing point**: No data available
- **Boiling point**: No data available
- **Flash point**: Not applicable
- **Evaporation rate**: Not determined
- **Upper explosion limit**: No data available
- **Lower explosion limit**: No data available
- **Vapour pressure**: No data available
- **Relative vapour density**: No data available
- **Density**: No data available
- **Solubility(ies)**
SAFETY DATA SHEET

A07712OS TM CITRUS 9000 L1 12N7.5 4/CS

Version 1.0  Revision Date 02/11/2015  Print Date 06/29/2015

Water solubility: negligible
Solubility in other solvents: not determined
Partition coefficient: n-octanol/water: no data available
Auto-ignition temperature: not determined
Thermal decomposition: no data available
Viscosity: no data available
Viscosity, kinematic: no data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
No decomposition if stored and applied as directed.
Conditions to avoid: Heat, flames and sparks.
Incompatible materials: Oxidizing agents
Alkali metals
Acids
Hazardous decomposition products: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:
Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:
1,1-difluoroethane:
Acute inhalation toxicity: LC50 mouse: 977,000 mg/l
Exposure time: 2 h

Skin corrosion/irritation

Product:
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation
Product:
Remarks: May irritate eyes.

Respiratory or skin sensitisation
no data available

Germ cell mutagenicity
no data available

Carcinogenicity
no data available

Reproductive toxicity
no data available

1,1-difluoroethane:
propan-2-ol:
alkanes, C12-14-iso-:

STOT - single exposure
no data available

STOT - repeated exposure
no data available

Aspiration toxicity
no data available

Further information
Product:
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting,. Concentrations substantially above the TLV value may cause narcotic effects,. Solvents may degrease the skin.

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

Mobility in soil
no data available
SAFETY DATA SHEET

A07712OS TM CITRUS9000 L1 12N7.5 4/CS

Version 1.0 Revision Date 02/11/2015 Print Date 06/29/2015

Other adverse effects
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):
This material is not classified.

Transportation Regulation: IMDG (Vessel):
This material is not classified.

Transportation Regulation: IATA (Cargo Air):
This material is not classified.

Transportation Regulation: IATA (Passenger Air):
This material is not classified.

Transportation Regulation: TDG (Canada):
This material is not classified.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>cyclohexane</td>
<td>110-82-7</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: 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:
- Fire Hazard
- Sudden Release of Pressure Hazard
- Acute Health 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 birth defects or other reproductive harm.

methanol 67-56-1

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

- **TSCA**: On TSCA Inventory
- **DSL**: This product contains the following 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)

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SECTION 16. OTHER INFORMATION
Further information

NFPA:

- Flammability
  - Health: 1
  - Physical Hazard: 0

HMIS III:

- Health: 1
- Flammability: 3
- Physical Hazard: 0

OSHA GHS Label Information:

- Hazard pictograms:
  - Special hazard.
- Signal word: Warning
- Hazard statements: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness.
- Precautionary statements:
  - Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.
  - Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN SKIN: Wash with soap and water.
  - Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

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.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.
SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name: TimeMist(R) Air Sanitizer
EPA ID Number: 10807-438
Material number: 000000000001046026

Manufacturer or supplier’s details
Company: Amrep, Inc.
Address: 990 Industrial Park Drive
          Marietta, GA 30062
Telephone: 404-352-1680

Emergency telephone numbers
For SDS Information: Compliance Services 1-877-428-9937
For a Medical Emergency: 877-541-2016 Toll Free - All Calls Recorded
For a Transportation Emergency: CHEMTREC: 800-424-9300 - All Calls Recorded.
In the District of Columbia 202-483-7616

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Aerosol containing a liquefied gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>pleasant</td>
</tr>
</tbody>
</table>

GHS Classification

<table>
<thead>
<tr>
<th>Flammable aerosols</th>
<th>Category 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gases under pressure</td>
<td>Liquefied gas</td>
</tr>
<tr>
<td>Eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity - single exposure</td>
<td>Category 3 (Central nervous system)</td>
</tr>
</tbody>
</table>

GHS Label element

Hazard pictograms:

Signal word: Warning

Hazard statements:
H223 Flammable aerosol.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements:
Prevention:
P210 Keep away from heat/sparks/open flames/hot surfaces.
No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection/ face protection.

Response:
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

Storage:
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.
P403 Store in a well-ventilated place.

Disposal:
Dispose of contents/container in accordance with local regulation.

Potential Health Effects

Carcinogenicity:
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 No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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

Hazardous components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Concentration [%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>1,1-difluoroethane</td>
<td>75-37-6</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td>butane</td>
<td>106-97-8</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>1,1'-oxydipropan-2-ol</td>
<td>110-98-5</td>
<td>&gt;= 1 - &lt; 5</td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

**General advice**
- Move out of dangerous area.
- Show this safety data sheet to the doctor in attendance.
- Do not leave the victim unattended.

**If inhaled**
- Consult a physician after significant exposure.
- If unconscious place in recovery position and seek medical advice.

**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.
- Protect unharmed eye.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.
- If in eyes, rinse with water for 15 minutes.

**If swallowed**
- Keep respiratory tract clear.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.
- DO NOT induce vomiting unless directed to do so by a physician or poison control center.

SECTION 5. FIREFIGHTING MEASURES

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

**Unsuitable extinguishing media**
- High volume water jet

**Specific hazards during firefighting**
- Do not allow run-off from fire fighting to enter drains or water courses.

**Hazardous combustion products**
- Carbon dioxide (CO2)
- Carbon monoxide
- Smoke
- Fluorine compounds

**Specific extinguishing methods**
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Further information**
- For safety reasons in case of fire, cans should be stored separately in closed containments.
- Use a water spray to cool fully closed containers.

**Special protective equipment**
- Wear self-contained breathing apparatus for firefighting if
SAFETY DATA SHEET

TimeMist(R) Air Sanitizer

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 vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions:
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
- If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up:
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- Sweep up or vacuum up spillage and collect in suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling:
- Avoid exposure - obtain special instructions before use.
- Avoid contact with skin and eyes.
- For personal protection see section 8.
- Do not breathe vapours or spray mist.
- Take precautionary measures against static discharges.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Dispose of rinse water in accordance with local and national regulations.
- 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 or throw into fire even after use. Do not spray on flames or red-hot objects.
- No smoking.
- Observe label precautions.
- Keep in a dry, cool and well-ventilated place.
- Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid:
- Store and keep away from bases and alkalies.
- Do not store near acids.
- Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSOANAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type</th>
<th>Control</th>
<th>Basis</th>
</tr>
</thead>
</table>

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(Form of exposure)  parameters / Permissible concentration
propan-2-ol  67-63-0  TWA  200 ppm  ACGIH
               STEL  400 ppm  ACGIH
               TWA  400 ppm  980 mg/m³  NIOSH REL
               ST  500 ppm  1,225 mg/m³  NIOSH REL
               TWA  400 ppm  980 mg/m³  OSHA Z-1
               TWA  400 ppm  980 mg/m³  OSHA P0
               STEL  500 ppm  1,225 mg/m³  OSHA P0
1,1-difluoroethane  75-37-6  TWA  1,000 ppm  US WEEL
butane  106-97-8  TWA  800 ppm  1,900 mg/m³  NIOSH REL
               TWA  800 ppm  1,900 mg/m³  OSHA P0

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPAN-2-OL</td>
<td>67-63-0</td>
<td>Acetone</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>40 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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

Eye protection: Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
Ensure that eyewash stations and safety showers are close to the workstation location.

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.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aerosol containing a liquefied gas

Colour : colourless
Odour : pleasant
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point : No data available
Flash point : No data available
Evaporation rate : not determined
Flammability (solid, gas) : Flammable aerosol.
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative vapour density : No data available
Density : 1.04 g/cm³
Solubility(ies) : partly soluble
Water solubility
Solubility in other solvents : not determined
Partition coefficient: n-octanol/water : No data available
Auto-ignition temperature : not determined
Thermal decomposition : No data available
Viscosity
Viscosity, kinematic : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : Vapours may form explosive mixture with air.
No decomposition if stored and applied as directed.
Conditions to avoid : Extremes of temperature and direct sunlight.
Heat, flames and sparks.
SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

**Product:**

**Acute oral toxicity**
- Acute toxicity estimate: > 5,000 mg/kg
  - Method: Calculation method

**Acute dermal toxicity**
- Acute toxicity estimate: > 5,000 mg/kg
  - Method: Calculation method

**Components:**

- **propan-2-ol:**
  - Acute oral toxicity
    - LD50 Oral Rat: 4,396 mg/kg
    - Method: Calculation method

- **1,1-difluoroethane:**
  - Acute inhalation toxicity
    - LC50 Mouse: 977,000 mg/l
    - Exposure time: 2 h

- **butane:**
  - Acute inhalation toxicity
    - LC50 Mouse: 1,237 mg/l
    - Exposure time: 2 h
    - LC50 Rat: 1,355 mg/l

- **1,1'-oxydipropan-2-ol:**
  - Acute oral toxicity
    - LD50 Oral Rat: 14,850 mg/kg

  - Acute dermal toxicity
    - LD50 Dermal Rabbit: > 20 mg/kg

Skin corrosion/irritation

**Product:**

Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

**Product:**

Remarks: Severe eye irritation

Respiratory or skin sensitisation
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**
No data available

**Reproductive toxicity**
No data available

- propan-2-ol:
- 1,1-difluoroethane:
- butane:
- 1,1'-oxydipropan-2-ol:

**STOT - single exposure**
No data available

**STOT - repeated exposure**
No data available

**Aspiration toxicity**
No data available

**Further information**

**Product:**
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting,. Concentrations substantially above the TLV value may cause narcotic effects,. Solvents may degrease the skin.

---

**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
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.
Do not contaminate ponds, waterways or ditches with chemical or used container.
The product should not be allowed to enter drains, water courses or the soil.

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, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Cargo Air):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: IATA (Passenger Air):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

Transportation Regulation: TDG (Canada):
UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity

SECTION 15. REGULATORY INFORMATION
This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

**Pesticide Labeling Information Required Under U.S. FIFRA Regulations**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**WARNING**

Causes skin and eye irritation.
Harmful if swallowed.

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

**CERCLA Reportable Quantity**

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>cyclohexane</td>
<td>110-82-7</td>
<td>1000</td>
<td>*</td>
</tr>
</tbody>
</table>

*: 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
Acute Health Hazard
Fire Hazard

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

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

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

**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
- **IESCC**: 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), TCSI (Taiwan), TSCA (USA)
SAFETY DATA SHEET

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SECTION 16. OTHER INFORMATION

Further information

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>2</td>
</tr>
</tbody>
</table>

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

OSHA GHS Label Information:

Hazard pictograms: :

Signal word: Warning:

Hazard statements: Flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary statements:

Prevention: 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. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection/ face protection.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unw ell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Storage: 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/container in accordance with local regulation.

Version: 2.1
Revision Date: 04/13/2016
Print Date: 07/07/2016

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.
Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.
1 - Identification

Product Name: WD-40 Multi-Use Product Aerosol
NOT FOR SALE IN CALIFORNIA

Product Use: Lubricant, Penetrant, Drives Out Moisture, Removes and Protects Surfaces From Corrosion

Restrictions on Use: None identified

SDS Date Of Preparation: 07/20/2014

Manufacturer: WD-40 Company
Address: 1061 Cudahy Place (92110)
P.O. Box 80607
San Diego, California, USA
92138 –0607

Telephone: Emergency only: 1-888-324-7596 (PROSAR)
Information: 1-888-324-7596
Chemical Spills: 1-800-424-9300 (Chemtrec)
1-703-527-3887 (International Calls)

2 – Hazards Identification

Hazcom 2012/GHS Classification:
Flammable Aerosol Category 1
Gas Under Pressure: Compressed Gas
Aspiration Toxicity Category 1

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:

DANGER!
Extremely Flammable Aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.

Prevention
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.

Response
IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

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

Disposal
Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Weight Percent</th>
<th>US Hazcom 2012/ GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Hydrocarbon</td>
<td>64742-47-8</td>
<td>45-50</td>
<td>Flammable Liquid Category 3</td>
</tr>
</tbody>
</table>
### Aspiration Toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Category</th>
<th>Aspiration Toxicity Category 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Base Oil</td>
<td>64742-56-9</td>
<td>&lt;25</td>
</tr>
<tr>
<td></td>
<td>64742-65-0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>64742-53-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>64742-54-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>64742-71-8</td>
<td></td>
</tr>
<tr>
<td>LVP Aliphatic Hydrocarbon</td>
<td>64742-47-8</td>
<td>12-18</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>124-38-9</td>
<td>2-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Hazardous Ingredients</td>
<td>Mixture</td>
<td>&lt;10</td>
</tr>
</tbody>
</table>

Note: The exact percentages are a trade secret.

### 4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure:** May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

**Indication of Immediate Medical Attention/Special Treatment Needed:** Immediate medical attention is needed for ingestion.

### 5 – Fire Fighting Measures

**Suitable (and unsuitable) Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

**Specific Hazards Arising from the Chemical:** Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

### 6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

### 7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
**Conditions for Safe Storage:** Store in a cool, well-ventilated area, away from incompatible materials. Do not store above 120°F or in direct sunlight. U.F.C (NFPA 30B) Level 3 Aerosol. Store away from oxidizers.

### 8 – Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Hydrocarbon</td>
<td>1200 mg/m³ TWA (manufacturer recommended)</td>
</tr>
<tr>
<td>Petroleum Base Oil</td>
<td>5 mg/m³ TWA, 10 mg/m³ STEL ACGIH TLV 5 mg/m³ TWA OSHA PEL</td>
</tr>
<tr>
<td>LVP Aliphatic Hydrocarbon</td>
<td>1200 mg/m³ TWA (manufacturer recommended)</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>5000 ppm TWA (OSHA/ACGIH), 30,000 ppm STEL (ACGIH)</td>
</tr>
<tr>
<td>Non-Hazardous Ingredients</td>
<td>None Established</td>
</tr>
</tbody>
</table>

**The Following Controls are Recommended for Normal Consumer Use of this Product**

**Appropriate Engineering Controls:** Use in a well-ventilated area.

**Personal Protection:**
- **Eye Protection:** Avoid eye contact. Always spray away from your face.
- **Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.
- **Respiratory Protection:** None needed for normal use with adequate ventilation.

**For Bulk Processing or Workplace Use the Following Controls are Recommended**

**Appropriate Engineering Controls:** Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

**Personal Protection:**
- **Eye Protection:** Safety goggles recommended where eye contact is possible.
- **Skin Protection:** Wear chemical resistant gloves.
- **Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

**Work/Hygiene Practices:** Wash with soap and water after handling.

### 9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light amber liquid</td>
</tr>
<tr>
<td>Flammable Limits: (Solvent Portion)</td>
<td></td>
</tr>
<tr>
<td>LEL</td>
<td>0.6%</td>
</tr>
<tr>
<td>UEL</td>
<td>8%</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild petroleum odor</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>95-115 PSI @ 70°F</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not established</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Greater than 1 (air=1)</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.8 – 0.82 @ 60°F</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not established</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>361 - 369°F (183 - 187°C)</td>
</tr>
<tr>
<td>Partition Coefficient; n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>122°F (49°C) Tag Closed Cup (concentrate)</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not established</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable Aerosol</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2.79-2.96 cSt @ 100°F</td>
</tr>
<tr>
<td>VOC</td>
<td>412 grams/liter (49.5%)</td>
</tr>
<tr>
<td>Pour Point</td>
<td>-63°C (-81.4°F)</td>
</tr>
</tbody>
</table>

### 10 – Stability and Reactivity

**Reactivity:** Not reactive under normal conditions

**Chemical Stability:** Stable
**Possibility of Hazardous Reactions:** May react with strong oxidizers generating heat.

**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide.

11 – Toxicological Information

**Symptoms of Overexposure:**
- **Inhalation:** High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.
- **Skin Contact:** Prolonged and/or repeated contact may produce mild irritation and defatting with possible dermatitis.
- **Eye Contact:** Contact may be irritating to eyes. May cause redness and tearing.
- **Ingestion:** This product has low oral toxicity. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.
- **Chronic Effects:** None expected.
- **Carcinogen Status:** None of the components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.

**Reproductive Toxicity:** None of the components is considered a reproductive hazard.

**Numerical Measures of Toxicity:**
The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available, however components of this product are not expected to be harmful to aquatic organisms.

**Persistence and Degradability:** Component are readily biodegradable.

**Bioaccumulative Potential:** Bioaccumulation is not expected based on an assessment of the ingredients.

**Mobility in Soil:** No data available

**Other Adverse Effects:** None known

13 – Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

**DOT Surface Shipping Description:**
- UN1950, Aerosols, 2.1 Ltd. Qty  (Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

**IMDG Shipping Description:** Un1950, Aerosols, 2.1, LTD QTY

**ICAO Shipping Description:** UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

15 – Regulatory Information

**U.S. Federal Regulations:**
- **CERCLA 103 Reportable Quantity:** This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many
states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA TITLE III:**

- **Hazard Category For Section 311/312:** Acute Health, Fire Hazard, Sudden Release of Pressure
- **Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III
  - Section 313 Reporting requirements: None
  - Section 302 Extremely Hazardous Substances (TPQ): None
- **EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on the TSCA inventory.
- **VOC Regulations:** This product complies with the consumer product VOC limits of the US EPA and states adopting the OTC VOC rules but does not comply with CARB.
- **California Safe Drinking Water and Toxic Enforcement Act (Proposition 65):** This product does not contain chemicals regulated under California Proposition 65.
- **Canadian Environmental Protection Act:** One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.
- **Canadian WHMIS Classification:** Class A (Compressed gas), Class B-5 (Flammable Aerosol)

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

### 16 – Other Information:

**HMIS Hazard Rating:**

- Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Reactivity – 0 (minimal hazard)

Revision Date: July 20, 2014

Supersedes: May 23, 2014

Revision Summary: Convert to Hazcom 2012. Changes in all sections.

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

APPROVED By: I. Kowalski Regulatory Affairs Dept.
1 - Identification

<table>
<thead>
<tr>
<th>Product Name: JD-40 Specialist™ Protective White Lithium Grease (Low VOC)</th>
<th>Manufacturer: WD-40 Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Use: Cleaner, Lubricant</td>
<td>Address: 1061 Cudahy Place (92110)</td>
</tr>
<tr>
<td>Restrictions on Use: None identified</td>
<td>P.O. Box 80607</td>
</tr>
<tr>
<td>SDS Date Of Preparation: 08/10/2015</td>
<td>San Diego, California, USA 92138 – 0607</td>
</tr>
<tr>
<td></td>
<td>Telephone: 1-888-324-7596 (PROSAR)</td>
</tr>
<tr>
<td></td>
<td>Information: 1-888-324-7596</td>
</tr>
<tr>
<td></td>
<td>Chemical Spills: 1-800-424-9300 (Chemtrec)</td>
</tr>
<tr>
<td></td>
<td>1-703-527-3887 (International Calls)</td>
</tr>
</tbody>
</table>

2 – Hazards Identification

Hazcom 2012/GHS Classification:
- Flammable Aerosol Category 1
- Gas Under Pressure: Compressed Gas
- Aspiration Toxicity Category 1

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.

Label Elements:

DANGER!
Extremely Flammable Aerosol.
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.

Prevention
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.

Response
IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.

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

Disposal
Dispose of contents and container in accordance with local and national regulations.

3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS #</th>
<th>Weight Percent</th>
<th>US Hazcom 2012/ GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Solvents (LVP)</td>
<td>64742-47-8</td>
<td>45-65</td>
<td>Aspiration Toxicity Category 1</td>
</tr>
<tr>
<td></td>
<td>64742-88-7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Propellant (propane)</td>
<td>74-98-6</td>
<td>25%</td>
<td>Flammable Gas Category 1 Gas Under Pressure: Compressed Gas</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------</td>
<td>-----</td>
<td>----------------------------------------------------------</td>
</tr>
<tr>
<td>Hydrotreated Heavy Naphthenic Distillate</td>
<td>64742-52-5</td>
<td>&lt;6</td>
<td>Not Hazardous</td>
</tr>
<tr>
<td>Solvent-refined Heavy Paraffinic Petroleum Distillates</td>
<td>64741-88-4</td>
<td>&lt;6</td>
<td>Not Hazardous</td>
</tr>
<tr>
<td>Calcium Sulfonate</td>
<td>Proprietary</td>
<td>&lt;5</td>
<td>Not Hazardous</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt;3</td>
<td>Carcinogen Category 2*</td>
</tr>
</tbody>
</table>

* Carcinogen classification applies to respirable forms only. Not applicable to this product.
Note: The exact percentages are a trade secret.

4 – First Aid Measures

**Ingestion (Swallowed):** Aspiration Hazard. DO NOT induce vomiting. Call physician, poison control center or the WD-40 Safety Hotline at 1-888-324-7596 immediately.

**Eye Contact:** Flush thoroughly with water. Remove contact lenses if present after the first 5 minutes and continue flushing for several more minutes. Get medical attention if irritation persists.

**Skin Contact:** Wash with soap and water. If irritation develops and persists, get medical attention.

**Inhalation (Breathing):** If irritation is experienced, move to fresh air. Get medical attention if irritation or other symptoms develop and persist.

**Signs and Symptoms of Exposure:** Harmful or fatal if swallowed. If swallowed, may be aspirated and cause lung damage. May cause eye and respiratory irritation. Inhalation may cause coughing, headache and dizziness. Skin contact may cause drying of the skin.

**Indication of Immediate Medical Attention/Special Treatment Needed:** Immediate medical attention is needed for ingestion.

5 – Fire Fighting Measures

**Suitable (and unsuitable) Extinguishing Media:** Use water fog, dry chemical, carbon dioxide or foam. Do not use water jet or flooding amounts of water. Burning product will float on the surface and spread fire.

**Specific Hazards Arising from the Chemical:** Extremely flammable aerosol. Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can cause them to rupture often with violent force. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. A vapor and air mixture can create an explosion hazard in confined spaces. Combustion will produce oxides of carbon and hydrocarbons.

**Special Protective Equipment and Precautions for Fire-Fighters:** Firefighters should always wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire-exposed containers with water. Use shielding to protect against bursting containers.

6 – Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:** Wear appropriate protective clothing (see Section 8). Eliminate all sources of ignition and ventilate area.

**Methods and Materials for Containment/Cleanup:** Leaking cans should be placed in a plastic bag or open pail until the pressure has dissipated. Contain and collect liquid with an inert absorbent and place in a container for disposal. Clean spill area thoroughly. Report spills to authorities as required.

7 – Handling and Storage

**Precautions for Safe Handling:** Avoid contact with eyes. Avoid prolonged contact with skin. Avoid breathing vapors or aerosols. Use only with adequate ventilation. Keep away from heat, sparks, pilot lights, hot surfaces and open flames. Unplug electrical tools, motors and appliances before spraying or bringing the can near any source of electricity. Electricity can burn a hole in the can and cause contents to burst into flames. To avoid serious burn injury, do not let the can touch battery terminals, electrical connections on motors or appliances or any other source of electricity. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep out of the reach of children. Do not puncture, crush or incinerate containers, even when empty.
8 – Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Solvents (LVP)</td>
<td>1200 mg/m³ TWA (manufacturer recommended)</td>
</tr>
<tr>
<td>Propane</td>
<td>1000 ppm TWA OSHA PEL</td>
</tr>
<tr>
<td>Hydrotreated Heavy Naphthenic Distillate</td>
<td>5 mg/m³ TWA (inhalable) ACGIH TLV (as Mineral oil)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ TWA OSHA PEL (as Oil mist)</td>
</tr>
<tr>
<td>Solvent-refined Heavy Paraffinic Petroleum Distillates</td>
<td>5 mg/m³ TWA (inhalable) ACGIH TLV (as Mineral oil)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³ TWA OSHA PEL (as Oil mist)</td>
</tr>
<tr>
<td>Calcium Sulfonate</td>
<td>None Established</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>10 mg/m³ TWA ACGIH TLV</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ (total dust) TWA OSHA PEL</td>
</tr>
</tbody>
</table>

The Following Controls are Recommended for Normal Consumer Use of this Product

Appropriate Engineering Controls: Use in a well-ventilated area.

Personal Protection:
- **Eye Protection:** Avoid eye contact. Always spray away from your face.
- **Skin Protection:** Avoid prolonged skin contact. Chemical resistant gloves recommended for operations where skin contact is likely.
- **Respiratory Protection:** None needed for normal use with adequate ventilation.

For Bulk Processing or Workplace Use the Following Controls are Recommended

Appropriate Engineering Controls: Use adequate general and local exhaust ventilation to maintain exposure levels below that occupational exposure limits.

Personal Protection:
- **Eye Protection:** Safety goggles recommended where eye contact is possible.
- **Skin Protection:** Wear chemical resistant gloves.
- **Respiratory Protection:** None required if ventilation is adequate. If the occupational exposure limits are exceeded, wear a NIOSH approved respirator. Respirator selection and use should be based on contaminant type, form and concentration. Follow OSHA 1910.134, ANSI Z88.2 and good Industrial Hygiene practice.

Work/Hygiene Practices: Wash with soap and water after handling.

9 – Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild petroleum odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not established</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not established</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>221-271°C (430-520°F)</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&lt;30°C (-22°F) (CC ASTM D3828)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not established</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable Aerosol</td>
</tr>
<tr>
<td>VOC</td>
<td>24.72%</td>
</tr>
<tr>
<td>LEL</td>
<td>0.6%</td>
</tr>
<tr>
<td>UEL</td>
<td>5%</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>0.009 kPa (0.07 mm Hg) at 20°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>5.3 (Petroleum Solvent)</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.87</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>Partition Coefficient n-octanol/water</td>
<td>Not established</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not established</td>
</tr>
<tr>
<td>Pour Point</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Page 3 of 5
10 – Stability and Reactivity

**Reactivity:** Not reactive under normal conditions  
**Chemical Stability:** Stable  
**Possibility of Hazardous Reactions:** May react with strong oxidizers generating heat.  
**Conditions to Avoid:** Avoid heat, sparks, flames and other sources of ignition. Do not puncture or incinerate containers.  
**Incompatible Materials:** Strong acids, alkalis, and oxidizers.  
**Hazardous Decomposition Products:** Carbon monoxide and carbon dioxide, oxides of nitrogen and sulfur, smoke, fumes, and/or unburned hydrocarbons.

11 – Toxicological Information

**Symptoms of Overexposure:**
- **Inhalation:** Mist or vapor can irritate the throat and lungs. High concentrations may cause nasal and respiratory irritation and central nervous system effects such as headache, dizziness and nausea. Intentional abuse may be harmful or fatal.  
- **Skin Contact:** May cause skin irritation with short-term exposure with redness, itching and burning of the skin. Prolonged and/or repeated contact may produce defatting and dermatitis.  
- **Eye Contact:** Contact may be irritating to eyes. May cause redness, stinging, swelling and tearing.  
- **Ingestion:** This product has low oral toxicity. If swallowed, this material may cause irritation of the mouth, throat and esophagus. Swallowing may cause gastrointestinal irritation, nausea, vomiting, diarrhea, dizziness, drowsiness and other central nervous system effects. This product is an aspiration hazard. If swallowed, can enter the lungs and may cause chemical pneumonitis, severe lung damage and death.  
- **Chronic Effects:** None expected.  
- **Carcinogen Status:** This product contains small amount of titanium dioxide, which is listed by IARC as a suspected carcinogen (Group 2B). Titanium dioxide only presents a risk of cancer by inhalation of very fine dust. In this product, the titanium dioxide is incorporated into the grease and is not present as a respirable dust. There is no exposure to respirable titanium dioxide dust in the normal use of this product. None of the other components are listed as a carcinogen or suspect carcinogen by IARC, NTP, ACGIH or OSHA.  
- **Reproductive Toxicity:** None of the components is considered a reproductive hazard.

**Numerical Measures of Toxicity:**
The oral toxicity of this product is estimated to be greater than 5,000 mg/kg and the dermal toxicity greater than 2,000 mg/kg based on an assessment of the ingredients. This product is not classified as toxic by established criteria. It is an aspiration hazard.

12 – Ecological Information

**Ecotoxicity:** No specific aquatic toxicity data is currently available.  
**Persistence and Degradability:** No data available.  
**Bioaccumulative Potential:** No data available.  
**Mobility in Soil:** No data available  
**Other Adverse Effects:** None known

13 - Disposal Considerations

If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.

14 – Transportation Information

**DOT Surface Shipping Description:**
UN1950, Aerosols, 2.1 Ltd. Qty  
(Note: Shipping Papers are not required for Limited Quantities unless transported by air or vessel – each package must be marked with the Limited Quantity Mark)

**IMDG Shipping Description:** Un1950, Aerosols, 2.1, LTD QTY

**ICAO Shipping Description:** UN1950, Aerosols, flammable, 2.1 NOTE: WD-40 does not test aerosol cans to assure that they meet the pressure and other requirements for transport by air. We do not recommend that our aerosol products be transported by air.

Page 4 of 5
15 – Regulatory Information

U.S. Federal Regulations:
CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements, however, oil spills are reportable to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:
Hazard Category For Section 311/312: Acute Health, Fire Hazard, Sudden Release of Pressure
Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

VOC Regulations: This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): This product does not contain chemicals regulated under California Proposition 65.

Canadian Environmental Protection Act: One of the components is listed on the NDSL. All of the other ingredients are listed on the Canadian Domestic Substances List or exempt from notification.

Canadian WHMIS Classification: Class 1 (Compressed Gas), Class B-5 (Flammable Aerosol)

16 – Other Information:

HMIS Hazard Rating:
Health – 1 (slight hazard), Fire Hazard – 4 (severe hazard), Physical Hazard – 0 (minimal hazard)

Revision Date: August 2015 Supersedes: July 2014

Revision Summary: Correct percent propellant (Section 3).

Prepared by: Industrial Health & Safety Consultants, Inc. Shelton, CT, USA

Reviewed By: I. Kowalski Manager Regulatory Affairs

2025200/No.0089203