SAFETY DATA SHEET

1. Identification

Product identifier: GEL VANDAL MARK REMOVER

Other means of identification
SDS number: RE1000010419

Recommended restrictions
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer
Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) Identification

Hazard Classification

Physical Hazards
- Flammable aerosol Category 1

Health Hazards
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 2A
- Toxic to reproduction Category 2
- Aspiration Hazard Category 1

Environmental Hazards
- Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:

Signal Word: Danger
Hazard Statement: Extremely flammable aerosol. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. Harmful to aquatic life.

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. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

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 ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing.

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

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, methyl-</td>
<td>108-88-3</td>
<td>10 - &lt;25%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>67-64-1</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>111-76-2</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, bis(hydrogenated tallow alkyl)dimethylammonium salt with b</td>
<td>71011-25-1</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>1310-73-2</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Morpholine</td>
<td>110-91-8</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

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

4. First-aid measures
Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

Most important symptoms/effects, acute and delayed
Symptoms: No data available.
Hazards: No data available.

Indication of immediate medical attention and special treatment needed
Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

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

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

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

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up:
Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures:
Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions:
Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer.

7. Handling and storage

Precautions for safe handling:
Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin.

Conditions for safe storage, including any incompatibilities:
Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 2

8. Exposure controls/personal protection

Control Parameters
Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, methyl-</td>
<td>STEL</td>
<td>150 ppm 560 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>100 ppm 375 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm 375 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Ceiling</td>
<td></td>
<td>300 ppm</td>
<td>US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>200 ppm</td>
<td>US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>MAX. CONC</td>
<td></td>
<td>500 ppm</td>
<td>US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>STEL</td>
<td></td>
<td>150 ppm 560 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm 1,800 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>PEL</td>
<td></td>
<td>1,000 ppm 1,800 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>1,000 ppm 1,800 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>STEL</td>
<td>1,000 ppm 2,400 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>PEL</td>
<td></td>
<td>1,000 ppm 2,400 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>250 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>750 ppm 1,800 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>STEL</td>
<td></td>
<td>500 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>REL</td>
<td></td>
<td>250 ppm 590 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm 1,900 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>STEL</td>
<td></td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2018)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>800 ppm 1,900 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>TWA</td>
<td>20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td>25 ppm 120 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>REL</td>
<td></td>
<td>5 ppm 24 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>PEL</td>
<td></td>
<td>50 ppm 240 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
</tbody>
</table>
**Inhalable fraction and Respirable**

Ethanol, 2-(2-butoxyethoxy)- (Inhalable fraction and Respirable)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium hydroxide (Na(OH))</td>
<td>Ceiling: 2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Ceiling</td>
<td>2 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>PEL</td>
<td>2 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>STEL 30 ppm</td>
<td>105 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>TWA 20 ppm</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
<td></td>
</tr>
<tr>
<td>STEL 30 ppm</td>
<td>105 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>PEL 20 ppm</td>
<td>70 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable dust.</td>
<td>REL</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable</td>
<td>TWA</td>
<td>2.4 millions of particles per cubic foot of air</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable dust.</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable dust.</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable dust.</td>
<td>PEL</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>Quartz (SiO₂) - Respirable dust.</td>
<td>OSHA ACT</td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td>Ethanol, 2-methoxy-</td>
<td>REL</td>
<td>0.1 ppm</td>
</tr>
<tr>
<td>REL</td>
<td>0.1 ppm</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>PEL 25 ppm</td>
<td>80 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>1,2-Ethanediamine</td>
<td>TWA</td>
<td>10 ppm</td>
</tr>
<tr>
<td>PEL</td>
<td>10 ppm</td>
<td>25 mg/m³</td>
</tr>
<tr>
<td>TWA</td>
<td>10 ppm</td>
<td>25 mg/m³</td>
</tr>
<tr>
<td>REL</td>
<td>10 ppm</td>
<td>25 mg/m³</td>
</tr>
</tbody>
</table>

**Biological Limit Values**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, methyl- (toluene: Sampling time: End of shift.)</td>
<td>0.03 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)</td>
<td>0.3 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)</td>
<td>0.02 mg/l (Blood)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>2-Propanone (acetone: Sampling time: End of shift.)</td>
<td>25 mg/l</td>
<td>ACGIH BEL (03 2015)</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy- (Butoxyacetic acid (BAA), with hydrolysis: Sampling time: End of shift.)</td>
<td>200 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
<tr>
<td>Ethanol, 2-methoxy- (2-Methoxyacetic acid: Sampling time: End of shift at end of work week.)</td>
<td>1 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**
General information: Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

Skin Protection
Hand Protection: No data available.

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

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Avoid contact with eyes. Observe good industrial hygiene practices. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Spray Aerosol
Color: No data available.

Odor: No data available.
Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: No data available.

Flash Point: -104.44 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.
Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.

Vapor pressure: 413.682 - 517.1025 hPa (20 °C)
689.47 - 827.364 hPa (50 °C)

Vapor density: No data available.
Density: No data available.
Relative density: No data available.
Solubility(ies)
Solubility in water: No data available.
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

10. Stability and reactivity
Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Avoid heat or contamination.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

11. Toxicological information
Information on likely routes of exposure
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Information on toxicological effects
Acute toxicity (list all possible routes of exposure)
Oral Product: ATEmix: 33,509.32 mg/kg
Dermal Product: ATEmix: 11,647.52 mg/kg
Inhalation Product: ATEmix: 496.89 mg/l
ATEmix: 82.82 mg/l
Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: No data available.

Serious Eye Damage/Eye Irritation
Product: No data available.

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity
  In vitro
  Product: No data available.

  In vivo
  Product: No data available.

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish
Product: No data available.
Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Benzene, methyl- No data available.
Propane No data available.
2-Propanone No data available.
Butane No data available.
Ethanol, 2-butoxy- No data available.
Ethanol, 2-(2-butoxyethoxy)- No data available.
Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl)dimethyl, bis(hydrogenated tallow alkyl)dimethylammonium salt with b No data available.
Sodium hydroxide (Na(OH)) No data available.
Morpholine No data available.

Other adverse effects: Harmful to aquatic organisms.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.
### 14. Transport information

**DOT**
- UN Number: UN 1950
- UN Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es) Class: 2.1
- Label(s): –
- Packing Group: II
- Marine Pollutant: No
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

**IMDG**
- UN Number: UN 1950
- UN Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es) Class: 2
- Label(s): –
- EmS No.: –
- Packing Group: –
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

**IATA**
- UN Number: UN 1950
- Proper Shipping Name: Aerosols, flammable
- Transport Hazard Class(es) Class: 2.1
- Label(s): –
- Packing Group: –
- Environmental Hazards: No
- Marine Pollutant: No
- Special precautions for user: Not regulated.

### 15. Regulatory information

**US Federal Regulations**

**Restrictions on use:** Not known.

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


<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2)</td>
<td>lung effects</td>
</tr>
<tr>
<td></td>
<td>immune system effects</td>
</tr>
<tr>
<td></td>
<td>Cancer</td>
</tr>
<tr>
<td></td>
<td>kidney effects</td>
</tr>
</tbody>
</table>

SDS_US - RE1000010419
### CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>(Na(OH))</td>
<td></td>
</tr>
<tr>
<td>Morpholine</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>1,2-Ethanediamine</td>
<td>lbs. 5000</td>
</tr>
</tbody>
</table>

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard
- Flammable aerosol
- Skin Corrosion/Irritation
- Serious Eye Damage/Eye Irritation
- Toxic to reproduction
- Aspiration Hazard

#### SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>1,2-Ethanediamine</td>
<td>lbs. 10000</td>
</tr>
</tbody>
</table>

#### SARA 304 Emergency Release Notification

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td></td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>(Na(OH))</td>
<td></td>
</tr>
<tr>
<td>Morpholine</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>Ethanol, 2-methoxy-</td>
<td>lbs. 10000</td>
</tr>
<tr>
<td>1,2-Ethanediamine</td>
<td>lbs. 10000</td>
</tr>
</tbody>
</table>

#### SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2-Ethanediamine</td>
<td>lbs</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>2-Propanone</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td></td>
</tr>
<tr>
<td>Quaternary ammonium</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>compounds, benzyl(hydrogenated tallow alkyl)dimethyl, bis(hydrogenated tallow</td>
<td></td>
</tr>
</tbody>
</table>
alkyl(dimethylammonium) salt with b

Sodium hydroxide 10000 lbs
(Na(OH))
Morpholine 10000 lbs
Quartz (SiO2) 10000 lbs
Ethanol, 2-methoxy- 10000 lbs

**SARA 313 (TRI Reporting)**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reporting threshold for other users</th>
<th>Reporting threshold for manufacturing and processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, methyl-</td>
<td>lbs</td>
<td>lbs.</td>
</tr>
<tr>
<td>Ethanol, 2-butoxy-</td>
<td>N230 lbs</td>
<td>N230 lbs.</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>N230 lbs</td>
<td>N230 lbs.</td>
</tr>
</tbody>
</table>

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
US State Regulations

**US. California Proposition 65**
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Benzene, methyl- Developmental toxin. 03 2008
Quartz (SiO2) Carcinogenic. 05 2011
Ethanol, 2-methoxy- Developmental toxin. 03 2008
Ethanol, 2-methoxy- Male reproductive toxin. 03 2008

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

**Chemical Identity**
Water
Benzene, methyl-
Propane
2-Propanone
Butane
Ethanol, 2-butoxy-
Ethanol, 2-(2-butoxyethoxy)-

**US. Massachusetts RTK - Substance List**

**Chemical Identity**
Quartz (SiO2)
1,2-Ethanediamine

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**
Benzene, methyl-
Propane
2-Propanone
Butane
Ethanol, 2-butoxy-
Ethanol, 2-(2-butoxyethoxy)-
9-Octadecenoic acid (9Z)-

**US. Rhode Island RTK**
No ingredient regulated by RI Right-to-Know Law present.

International regulations
Montreal protocol
2-Propanone

SDS_US - RE1000010419
Stockholm convention
2-Propanone

Rotterdam convention
2-Propanone

Kyoto protocol

Inventory Status:

Australia AICS: On or in compliance with the inventory

Canada DSL Inventory List: On or in compliance with the inventory

EINECS, ELINCS or NLP: Not in compliance with the inventory.

Japan (ENCS) List: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): Not in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: Not in compliance with the inventory.

US TSCA Inventory: On or in compliance with the inventory

New Zealand Inventory of Chemicals: On or in compliance with the inventory

Japan ISHL Listing: Not in compliance with the inventory.

Japan Pharmacopoeia Listing: Not in compliance with the inventory.

Mexico INSQ: Not in compliance with the inventory.

Ontario Inventory: On or in compliance with the inventory

Taiwan Chemical Substance Inventory: On or in compliance with the inventory

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

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

Issue Date: 09/27/2019

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.