SAFETY DATA SHEET

1. Identification

Product identifier: CASTLE® DRILL CHILL™

Product Code: C2035

Recommended restrictions
Product use: Lubricant
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufactured for:
Company Name: Castle Products, Inc.
Address: 424 St. Paul St.
Rochester, NY 14605
Telephone: 1-800-876-0222

Emergency: 1-585-275-3232

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
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.
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. 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. 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

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary</td>
<td></td>
<td>25 - &lt;50%</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>8042-47-5</td>
<td>20 - &lt;50%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Polyethylene glycol mono (branched p-nonylpn)phenyl) ether</td>
<td>127087-87-0</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased</td>
<td>91696-74-1</td>
<td>1 - &lt;5%</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:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

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. 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 3
## 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>White mineral oil (petroleum) - Mist.</td>
<td>REL</td>
<td>5 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m$^3$</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m$^3$</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>White mineral oil (petroleum) - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m$^3$</td>
<td>US. ACGIH Threshold Limit Values, as amended (01 2010)</td>
</tr>
<tr>
<td>Propane</td>
<td>REL</td>
<td>1,000 ppm 1,800 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm 1,800 mg/m$^3$</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1,000 ppm 1,800 mg/m$^3$</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>Butane</td>
<td>REL</td>
<td>800 ppm 1,900 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>1,000 ppm</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2018)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>800 ppm 1,900 mg/m$^3$</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>TWA</td>
<td>400 ppm 1,600 mg/m$^3$</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>500 ppm 2,000 mg/m$^3$</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (2006)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic - Mist.</td>
<td>REL</td>
<td>5 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m$^3$</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m$^3$</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>Cell_Time</td>
<td>1,800 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m$^3$</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2014)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>REL</td>
<td>350 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td>Oxirane</td>
<td>Cell_Time</td>
<td>5 ppm 9 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm 9 mg/m$^3$</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>5 ppm 9 mg/m$^3$</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>OSHA_AC_T</td>
<td>0.5 ppm 0.18 mg/m$^3$</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>0.1 ppm 0.18 mg/m$^3$</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2005)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm 9 mg/m$^3$</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2018)</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>Oxirane (N-(2-hydroxyethyl)-valine (HEV) hemoglobin adducts: Sampling time: Not critical.)</td>
<td>5000 pmol/g (Hemoglobin adducts)</td>
<td>ACGIH BEL (03 2018)</td>
</tr>
<tr>
<td>Oxirane (S-(2-hydroxyethyl) mercapturic acid (HEMA): Sampling time: End of shift.)</td>
<td>5 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2018)</td>
</tr>
</tbody>
</table>
Appropriate Engineering Controls

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 suitable protective clothing. 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:**
Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. 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:** Estimated -156º F (-104°C)
**Evaporation rate:** No data available.

**Flash Point:**

**Upper/lower limit on flammability or explosive limits**

- **Flammability limit - upper (%):** estimated 9.5 % (V)
- **Flammability limit - lower (%):** Estimated 2.15 % (V)
- **Explosive limit - upper (%):** No data available.
- **Explosive limit - lower (%):** No data available.

**Vapor pressure:** 2,344 - 2,895 hPa (20 ºC)
**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: 40,686.83 mg/kg

**Dermal Product:** Not classified for acute toxicity based on available data.

**Specified substance(s):**

- White mineral oil (petroleum) LD 50 (Rabbit): > 2,000 mg/kg
- Polyethylene glycol mono(branched p-nonylphenyl) ether LD 50: > 2,000 mg/kg
- Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased LD 50 (Rabbit): > 5,000 mg/kg
### Inhalation

**Product:** ATEmix: 99.22 mg/l

### Repeated dose toxicity

**Product:** No data available.

**Specified substance(s):**
- **White mineral oil (petroleum):**
  - NOAEL (Rat(Female, Male), Oral, 90 d): \( >= 20,000 \text{ ppm(m)} \) Oral Experimental result, Key study

- **Propane:**
  - NOAEL (Rat(Female, Male), Inhalation, \( >= 28 \text{ d} \)): \( 4,000 \text{ ppm(m)} \) Inhalation Experimental result, Key study
  - LOAEL (Rat(Female, Male), Inhalation, \( >= 28 \text{ d} \)): \( 12,000 \text{ ppm(m)} \) Inhalation Experimental result, Key study

- **Butane:**
  - LOAEL (Rat(Female, Male), Inhalation, \( >= 28 \text{ d} \)): \( 12,000 \text{ ppm(m)} \) Inhalation Experimental result, Key study
  - NOAEL (Rat(Female, Male), Inhalation, \( >= 28 \text{ d} \)): \( 4,000 \text{ ppm(m)} \) Inhalation Experimental result, Key study

- **Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased:**
  - NOAEL (Rat(Female, Male), Oral, 29 - 43 d): \( 500 \text{ mg/kg} \) Oral Read-across from supporting substance (structural analogue or surrogate), Key study
  - NOAEL (Rat, Dermal, 28 d): \( > 1,000 \text{ mg/kg} \) Dermal Read-across from supporting substance (structural analogue or surrogate), Key study
  - NOAEL (Rat(Female, Male), Inhalation): \( 49.5 \text{ mg/m}^3 \) Inhalation Read-across from supporting substance (structural analogue or surrogate), Key study

### Skin Corrosion/Irritation

**Product:** No data available.

**Specified substance(s):**
- **White mineral oil (petroleum):**
  - in vivo (Rabbit): Not irritant Experimental result, Key study

- **Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased:**
  - in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Supporting study

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Specified substance(s):**
- **White mineral oil (petroleum):**
  - Rabbit, 24 - 72 hrs: Not irritating

- **Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased:**
  - Rabbit, 24 - 72 hrs: Not irritating

### Respiratory or Skin Sensitization

**Product:** No data available.

**Specified substance(s):**
- **White mineral oil (petroleum):**
  - Skin sensitization: in vivo (Guinea pig): Non sensitizing
Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased

Skin sensitization: in vivo (Guinea pig): Sensitizing

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.

Specified substance(s):
White mineral oil (petroleum)
May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:
Fish
Product: No data available.

Specified substance(s):
Proprietary
LC 50 (96 h): estimated 50 mg/l

White mineral oil (petroleum)
NOAEL (Oncorhynchus mykiss, 96 h): >= 100 mg/l Experimental result, Key study

Propane
LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Butane
LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyethylene glycol mono (branched p-nonylphenyl) ether</td>
<td>LL 50 (Cyprinodion variegatus, 96 h): &gt; 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased</td>
<td>LL 0 (Cyprinodion variegatus, 96 h): 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study</td>
</tr>
</tbody>
</table>

Aquatic Invertebrates Product:

No data available.

Specified substance(s):
- Proprietary: EC 50 (48 h): estimated 50 mg/l
- White mineral oil (petroleum): NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study
- Butane: LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
- Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased: EC 50 (Daphnia magna, 48 h): > 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study
- NOAEL (Daphnia magna, 48 h): 1,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study

Chronic hazards to the aquatic environment:

Fish Product:

No data available.

Specified substance(s):
- White mineral oil (petroleum): NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

Aquatic Invertebrates Product:

No data available.

Specified substance(s):
- White mineral oil (petroleum): NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study

Toxicity to Aquatic Plants Product:

No data available.

Specified substance(s):

Persistence and Degradability Biodegradation Product:

No data available.

Specified substance(s):
- White mineral oil (petroleum): 31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study
- Propane: 100 % (385.5 h) Detected in water. Experimental result, Key study
- 50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study
Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

Polyethylene glycol mono (branched p-nonylphenyl) ether

Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased 9.1 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study

8.6 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study

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.

Specified substance(s):
Polyethylene glycol mono(branched p-nonylphenyl) ether Log Kp: 5.669 25 °C

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Proprietary No data available.
White mineral oil (petroleum) No data available.
Propane No data available.
Butane No data available.
Polyethylene glycol mono(branched p-nonylphenyl) ether No data available.
Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased 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)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane</td>
<td>Skin sensitization Acute toxicity Cancer Reproductive toxicity Mutagenicity Central nervous system Eye irritation respiratory tract irritation Skin irritation Flammability</td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substance List (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Oxirane</td>
<td>lbs. 10</td>
</tr>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

<table>
<thead>
<tr>
<th>Hazard categories</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fire Hazard</td>
</tr>
<tr>
<td></td>
<td>Immediate (Acute) Health Hazards</td>
</tr>
<tr>
<td></td>
<td>Flammable aerosol</td>
</tr>
<tr>
<td></td>
<td>Skin Corrosion/Irritation</td>
</tr>
<tr>
<td></td>
<td>Serious Eye Damage/Eye Irritation</td>
</tr>
<tr>
<td></td>
<td>Aspiration Hazard</td>
</tr>
</tbody>
</table>
### SARA 302 Extremely Hazardous Substance

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable quantity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane</td>
<td>lbs. 10</td>
<td>lbs. 1000</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>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Butane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Oxirane</td>
<td>lbs. 10</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>Oxirane</td>
<td>1000 lbs</td>
</tr>
<tr>
<td>Proprietary</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>White mineral oil (petroleum)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Butane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Polyethylene glycol mono(branched p-nonylphenyl) ether</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzenesulfonic acid, C14-44-branched and linear alkyl derivs., calcium salts, overbased</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

### SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

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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.

- Oxirane: Female reproductive toxin. 03 2008
- Oxirane: Carcinogenic. 05 2011
- Oxirane: Male reproductive toxin. 08 2009
- Oxirane: Developmental toxin. 08 2009

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

**Chemical Identity**

- White mineral oil (petroleum)
- Propane
- Butane
- Distillates (petroleum), hydrotreated heavy naphthenic

**US. Massachusetts RTK - Substance List**
No ingredient regulated by MA Right-to-Know Law present.

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

- White mineral oil (petroleum)
- Propane
- Butane

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

**International regulations**

- **Montreal protocol**
  Not applicable

- **Stockholm convention**
  Not applicable

- **Rotterdam convention**
  Not applicable
Kyoto protocol
Not applicable

<table>
<thead>
<tr>
<th>Inventory Status:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Canada DSL Inventory List:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Canada NDSL Inventory:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Ontario Inventory:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>China Inv. Existing Chemical Substances:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Japan (ENCS) List:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Japan ISHL Listing:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Japan Pharmacopoeia Listing:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv. (KECI):</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Mexico INSQ:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>New Zealand Inventory of Chemicals:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Philippines PICCS:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>Taiwan Chemical Substance Inventory:</td>
<td>Not in compliance with the inventory.</td>
</tr>
<tr>
<td>US TSCA Inventory:</td>
<td>On or in compliance with the inventory.</td>
</tr>
<tr>
<td>EINECS, ELINCS or NLP:</td>
<td>Not in compliance with the inventory.</td>
</tr>
</tbody>
</table>

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

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

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