SAFETY DATA SHEET

1. Identification

Product identifier: PENI-LUBE PENETRATING OIL

Other means of identification
SDS number: RE1000007223

Recommended restrictions
Product use: Lubricant
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
  Aspiration Hazard  Category 1

Label Elements

Hazard Symbol:

Signal Word: Danger

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

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.
Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting.

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>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>50 - &lt;100%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>20 - &lt;50%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5 - &lt;10%</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>112-34-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Proprietary</td>
<td></td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>64742-53-6</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>64742-65-0</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>64742-55-8</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>64742-56-9</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:** Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

**Eye contact:** Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/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.

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.

7. Handling and storage

Precautions for safe 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.
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

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>Distillates (petroleum), hydrotreated light</td>
<td>REL</td>
<td>100 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light - Non-aerosol - as total hydrocarbon vapor</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>TWA</td>
<td>400 ppm 1,600 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>500 ppm 2,000 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic - Mist.</td>
<td>REL</td>
<td>5 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2014)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>REL</td>
<td>350 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</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></td>
<td>PEL</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></td>
<td>TWA</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>Ethanol, 2-(2-butoxyethoxy)- - Inhalable fraction and vapor.</td>
<td>TWA</td>
<td>10 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2013)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic - inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (03 2014)</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic - Mist.</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2016)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>5 mg/m3</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2016)</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
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<tr>
<td>Substance Description</td>
<td>PEL</td>
<td>TWA</td>
<td>REL</td>
</tr>
<tr>
<td>------------------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.</td>
<td>500 ppm, 2,000 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td>Us. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic - Inhalable fraction.</td>
<td>5 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td>Us. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>500 ppm, 2,000 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td>Us. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic - Mist.</td>
<td>5 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
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</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic - Mist.</td>
<td>5 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td>Us. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
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<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic - Inhalable fraction.</td>
<td>5 mg/m³</td>
<td>Us. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
<td>Us. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

No data available.

**Individual protection measures, such as personal protective equipment**
### General information:
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

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

### Skin Protection
**Hand Protection:** No data available.

### Other:
Wear suitable protective clothing.

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

### Hygiene measures:
Observe good industrial hygiene practices. When using do not smoke.

### 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 -104.4 °C
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.
- **Upper/lower limit on flammability or explosive limits**
  - **Flammability limit - upper (%):** Estimated 9.5 %(V)
  - **Flammability limit - lower (%):** Estimated 2.2 %(V)
  - **Explosive limit - upper (%):** No data available.
  - **Explosive limit - lower (%):** No data available.
- **Vapor pressure:** No data available.
- **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: Not classified for acute toxicity based on available data.

Specified substance(s):

- Distillates (petroleum), hydrotreated light: LD 50 (Rat): > 5,000 mg/kg
- Distillates (petroleum), hydrotreated heavy naphthenic: LD 50 (Rat): > 5,000 mg/kg
- Ethanol, 2-(2-butoxyethoxy): LD 50 (Mouse): 2,410 mg/kg
- Proprietary: LD 50: > 2,000 mg/kg
<table>
<thead>
<tr>
<th>Substance</th>
<th>LD 50 (Animal):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>&gt; 5,000 mg/kg</td>
</tr>
</tbody>
</table>

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

**Specified substance(s):**

- Distillates (petroleum), hydrotreated light
  - LD 50 (Rabbit): 2,000 mg/kg
- Distillates (petroleum), hydrotreated heavy naphthenic
  - LD 50 (Rabbit): 2,000 mg/kg
- Ethanol, 2-(2-butoxyethoxy)-
  - LD 50 (Rabbit): 2,764 mg/kg
- Proprietary
  - LD 50: > 2,000 mg/kg
- Distillates (petroleum), hydrotreated heavy paraffinic
  - LD 50 (Rabbit): > 5,000 mg/kg
- Distillates, Petroleum, Hydrotreated Light Naphthenic
  - LD 50 (Rabbit): > 5,000 mg/kg
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
  - LD 50 (Rabbit): > 2,000 mg/kg
- Distillates (petroleum), hydrotreated light paraffinic
  - LD 50 (Rabbit): > 5,000 mg/kg
- Distillates (petroleum), solvent-dewaxed light paraffinic
  - LD 50 (Rabbit): > 5,000 mg/kg
**Inhalation**

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

**Specified substance(s):**

- Distillates (petroleum), hydrotreated light
  - LC 50: > 5 mg/l
  - LC 50: > 20 mg/l

- Distillates (petroleum), hydrotreated heavy
  - LC 50 (Rat): > 5.53 mg/l
  - LC 50: > 100 mg/l
  - LC 50: > 100 mg/l

- Propane
  - LC 50: > 100 mg/l
  - LC 50: > 100 mg/l

- Ethanol, 2-(2-butoxyethoxy)-
  - LC 50 (Various): > 20 mg/l

- Proprietary
  - LC 50: > 100 mg/l
  - LC 50: > 100 mg/l

- Distillates (petroleum), hydrotreated heavy
  - LC 50 (Rat): 10.5 mg/l
  - LC 50: > 100 mg/l
  - LC 50: > 100 mg/l

- Distillates, Petroleum, Hydrotreated Light Naphthenic
  - LC 50 (Rat): > 5.53 mg/l

- Distillates (petroleum), solvent-dewaxed heavy paraffinic
  - LC 50 (Rat): 10.5 mg/l

- Distillates (petroleum), hydrotreated light paraffinic
  - LC 50 (Rat): > 5.53 mg/l
  - LC 50 (Rat): 10.5 mg/l

- Distillates (petroleum), solvent-dewaxed light paraffinic
  - LC 50 (Rat): 10.5 mg/l

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s):**

- Distillates (petroleum), hydrotreated light
  - NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation Experimental result, Key study

- Distillates (petroleum), hydrotreated heavy naphthenic
  - NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study
  - NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study

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**SDS_US - RE1000007223**

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<table>
<thead>
<tr>
<th>Substance</th>
<th>NOAEL/Rat(Female, Male), Inhalation, &gt;= 28 d: ppm(m) or mg/kg</th>
<th>Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane</td>
<td>4,000 ppm(m)</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)</td>
<td>250 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>&gt; 980 mg/m3 Inhhalation</td>
<td></td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>220 mg/m3 Inhhalation</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>&gt; 980 mg/m3 Inhhalation</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>220 mg/m3 Inhhalation</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>&gt; 980 mg/m3 Inhhalation</td>
<td></td>
</tr>
</tbody>
</table>

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

- Distillates (petroleum), hydrotreated light
  - in vivo (Rabbit): Not irritant  Experimental result, Key study

- Distillates (petroleum), hydrotreated heavy naphthenic
  - in vivo (Rabbit): Not irritant  Experimental result, Key study

- Ethanol, 2-(2-butoxyethoxy)
  - in vivo (Rabbit): Not irritant  Experimental result, Supporting study
<table>
<thead>
<tr>
<th>Specified substance(s)</th>
<th>Experimental result</th>
<th>Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>in vivo (Rabbit):</td>
<td>Not irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experimental result, Key</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>in vivo (Rabbit):</td>
<td>Not irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experimental result, Key</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>in vivo (Rabbit):</td>
<td>Not irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experimental result, Key</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>in vivo (Rabbit):</td>
<td>Not irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experimental result, Key</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>in vivo (Rabbit):</td>
<td>Not irritant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Experimental result, Key</td>
</tr>
</tbody>
</table>

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

<table>
<thead>
<tr>
<th>Specified substance(s)</th>
<th>Experimental result</th>
<th>Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>Rabbit, 24 - 72 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>Rabbit, 24 - 72 hrs:</td>
<td>Highly irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>Rabbit, 48 hrs:</td>
<td>Not irritating</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Respiratory or Skin Sensitization

**Product:** No data available.

**Specified substance(s):**
- Distillates (petroleum), hydrotreated light
- Distillates (petroleum), hydrotreated heavy naphthenic
- Ethanol, 2-(2-butoxyethoxy)-
- Proprietary Distillates (petroleum), hydrotreated heavy paraffinic
- Distillates, Petroleum, Hydrotreated Light Naphthenic
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
- Distillates (petroleum), hydrotreated light paraffinic
- Distillates (petroleum), solvent-dewaxed light paraffinic
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Not sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising
- Skin sensitization; in vivo (Guinea pig): Non sensitising

Carcinogenicity

**Product:** No data available.

**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: 

Specified substance(s):
Distillates (petroleum), hydrotreated light
Distillates, Petroleum, Hydrotreated Light Naphthenic

May be fatal if swallowed and enters airways.

Specified substance(s):
Distillates (petroleum), hydrotreated heavy naphthenic

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: 

Specified substance(s):
Distillates (petroleum), hydrotreated heavy naphthenic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Propane

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

Ethanol, 2-(2-butoxyethoxy)

LC 50 (Lepomis macrochirus, 96 h): 1,300 mg/l Experimental result, Key study

LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result, Supporting study

Proprietary

LC 50 (96 h): > 100 mg/l

Distillates (petroleum), hydrotreated heavy paraffinic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates, Petroleum, Hydrotreated Light Naphthenic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated light paraffinic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed light paraffinic

LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
Aquatic Invertebrates
Product:

Specified substance(s):
- Distillates (petroleum), hydrotreated heavy naphthenic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
  - NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
- Ethanol, 2-(2-butoxyethoxy)-
  - LC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting study
- Proprietary
  - EC 50 (48 h): > 100 mg/l
- Distillates (petroleum), hydrotreated heavy paraffinic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
- Distillates, Petroleum, Hydrotreated Light Naphthenic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
  - NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
- Distillates (petroleum), hydrotreated light paraffinic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
- Distillates (petroleum), solvent-dewaxed light paraffinic
  - EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish
Product:

Specified substance(s):
- Distillates (petroleum), hydrotreated light
  - NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
- Distillates (petroleum), hydrotreated heavy naphthenic
  - NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
- Distillates (petroleum), hydrotreated heavy paraffinic
  - NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
- Distillates, Petroleum, Hydrotreated Light Naphthenic
  - NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
  - NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

No data available.
<table>
<thead>
<tr>
<th>Substance/Property</th>
<th>Endpoint/Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>NOAEL (Oncorhynchus mykiss): &gt;= 1,000 mg/l QSAR QSAR, Supporting study</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>NOAEL (Oncorhynchus mykiss): &gt;= 1,000 mg/l QSAR QSAR, Supporting study</td>
</tr>
<tr>
<td><strong>Aquatic Invertebrates</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Product:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Specified substance(s):</strong></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>NOAEL (Daphnia magna): &gt;= 1,000 mg/l Experimental result, Supporting study</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>EC 50 (Daphnia magna): &gt; 1,000 mg/l Experimental result, Supporting study</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study</td>
</tr>
<tr>
<td><strong>Toxicity to Aquatic Plants</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Product:</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Specified substance(s):</strong></td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>EC 50 (72 h): &gt; 100 mg/l</td>
</tr>
<tr>
<td></td>
<td>NOEC (72 h): &gt; 100 mg/l</td>
</tr>
<tr>
<td><strong>Persistence and Degradability</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Biodegradation</strong></td>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Product:</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Specified substance(s):</strong></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>61 % Detected in water. Experimental result, Supporting study</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study</td>
</tr>
<tr>
<td></td>
<td>2 - 4 % (28 d) Detected in water. Experimental result, Supporting study</td>
</tr>
<tr>
<td>Propane</td>
<td>100 % (385.5 h) Detected in water. Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study</td>
</tr>
</tbody>
</table>
Ethanol, 2-(2-butoxyethoxy)- 85 % (28 d) Detected in water. Experimental result, Key study

Proprietary 55 % (28 d) Not readily degradable.

Distillates (petroleum), hydrotreated heavy paraffinic 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
31 % (28 d) Detected in water. Experimental result, Supporting study

Distillates, Petroleum, Hydrotreated Light Naphthenic 31 % (28 d) Detected in water. Experimental result, Supporting study
2 - 8 % (28 d) Detected in water. Experimental result, Supporting study

Distillates (petroleum), solvent-dewaxed heavy paraffinic 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study

Distillates (petroleum), hydrotreated light paraffinic 31 % (28 d) Detected in water. Experimental result, Supporting study
2 - 8 % (28 d) Detected in water. Experimental result, Supporting study

Distillates (petroleum), solvent-dewaxed light paraffinic 31 % (28 d) Detected in water. Experimental result, Supporting study
2 - 8 % (28 d) Detected in water. Experimental result, 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):**
Proprietary Log Kow: > 9.4 (Measured)

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**
Distillates (petroleum), hydrotreated light No data available.
Distillates (petroleum), hydrotreated heavy naphthenic No data available.
Propane No data available.
Ethanol, 2-(2-butoxyethoxy)- No data available.
Proprietary No data available.
Distillates (petroleum), hydrotreated heavy paraffinic No data available.
Distillates, Petroleum, Hydrotreated Light Naphthenic No data available.

SDS_US - RE1000007223
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic

No data available.

Other adverse effects: No data available.

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)
None present or none present in regulated quantities.

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>
</tbody>
</table>

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Fire Hazard
- Immediate (Acute) Health Hazards
- Flammable aerosol
- Aspiration Hazard

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>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></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>Distillates (petroleum), hydrotreated light</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td></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>Distillates (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Proprietary</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates, Petroleum,</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Hydrotreated Light Naphthenic</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>
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>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**
No ingredient requiring a warning under CA Prop 65.

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

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
</tr>
</tbody>
</table>

**US. Massachusetts RTK - Substance List**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
</tr>
</tbody>
</table>

**US. Pennsylvania RTK - Hazardous Substances**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
</tr>
</tbody>
</table>

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

International regulations

**Montreal protocol**
Distillates (petroleum), hydrotreated light

**Stockholm convention**
Distillates (petroleum), hydrotreated light

**Rotterdam convention**
Distillates (petroleum), hydrotreated light

**Kyoto protocol**
Inventory Status:
EINECS, ELINCS or NLP: Not in compliance with the inventory.
Japan (ENCS) List: Not in compliance with the inventory.
China Inv. Existing Chemical Substances: 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.
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: Not in compliance with the inventory.
Australia AICS: On or in compliance with the inventory
Canada DSL Inventory List: On or in compliance with the inventory
New Zealand Inventory of Chemicals: On or in compliance with the inventory
Philippines PICCS: On or in compliance with the inventory
Taiwan Chemical Substance Inventory: On or in compliance with the inventory
US TSCA Inventory: On or in compliance with the inventory

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

Issue Date: 11/19/2019
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.