SAFETY DATA SHEET

1. Identification

Product identifier: PENI-LUBE PENETRATING OIL - C960

Other means of identification
SDS number: RE1000007247

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 &lt;3% DMSO</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</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>Substance Description</td>
<td>TWA</td>
<td>STEL</td>
<td>PEL</td>
</tr>
<tr>
<td>-----------------------</td>
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</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>200 mg/m³</td>
<td>10 mg/m³</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Propane</td>
<td>10 ppm</td>
<td>1,800 mg/m³</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>5 mg/m³</td>
<td>350 mg/m³</td>
<td>1,000 ppm</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>5 mg/m³</td>
<td>10 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.</td>
<td>400 ppm</td>
<td>10 mg/m³</td>
<td>500 ppm</td>
</tr>
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<td>Distillates (petroleum), hydrotreated heavy naphthenic - Mist.</td>
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<td>5 mg/m³</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**

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form:</td>
<td>Spray Aerosol</td>
</tr>
<tr>
<td>Color:</td>
<td>No data available.</td>
</tr>
</tbody>
</table>

**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
- Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO
  - LD 50 (Rat): > 5,000 mg/kg
- Distillates, Petroleum, Hydrotreated Light Naphthenic
  - LD 50 (Rat): > 5,000 mg/kg
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
  - LD 50 (Rat): > 5,000 mg/kg
- Distillates (petroleum), hydrotreated light paraffinic
  - LD 50 (Rat): > 5,000 mg/kg
- Distillates (petroleum), solvent-dewaxed light paraffinic
  - LD 50 (Rat): > 5,000 mg/kg

**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 <3% DMSO  
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 naphthenic  
  LC 50: > 100 mg/l  
  LC 50: > 10 mg/l  
  LC 50: > 5.53 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 paraffinic <3% DMSO  
  LC 50: > 100 mg/l  
  LC 50: > 100 mg/l
- Distillates, Petroleum, Hydrotreated Light Naphthenic  
  LC 50 (Rat): > 5.53 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):

<table>
<thead>
<tr>
<th>Substance Type</th>
<th>NOAEL/LOAEL/Experimental result</th>
<th>Study Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>NOAEL (Rat(Female, Male), Inhalation): &gt;= 24 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>NOAEL (Rat(Female, Male), Inhalation): &gt; 980 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rat(Female, Male), Dermal, 13 Weeks): &gt;= 2,000 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Propane</td>
<td>NOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 4,000 ppm(m) Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>LOAEL (Rat(Female, Male), Inhalation, &gt;= 28 d): 12,000 ppm(m) Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic &lt;3% DMSO</td>
<td>NOAEL (Rat(Female, Male), Inhalation): &gt; 980 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rat(Female, Male), Dermal): 1,000 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>NOAEL (Rat, Inhalation): 500 mg/m3 Inhalation</td>
<td>Experimental result, Supporting study</td>
</tr>
<tr>
<td></td>
<td>NOAEL : 100 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NOAEL : 5 mg/m3 Inhalation Read-across from supporting substance (structural analogue or surrogate), Supporting study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rat, Inhalation): &gt; 1,500 mg/m3 Inhalation</td>
<td>Experimental result, Supporting study</td>
</tr>
<tr>
<td></td>
<td>LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>NOAEL (Rat(Female, Male), Inhalation): &gt; 980 mg/m3 Inhalation</td>
<td>Experimental result, Key study</td>
</tr>
<tr>
<td></td>
<td>LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NOAEL (Rat(Female, Male), Dermal, 13 Weeks): &gt;= 2,000 mg/kg Dermal</td>
<td>Experimental result, Key study</td>
</tr>
</tbody>
</table>

### Skin Corrosion/Irritation Product:

No data available.

### Specified substance(s):

<table>
<thead>
<tr>
<th>Substance Type</th>
<th>NOAEL/LOAEL/Experimental result</th>
<th>Study Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>NOAEL (Rat(Female): Not irritant</td>
<td>Experimental result, Key study</td>
</tr>
</tbody>
</table>

**SDS_US - RE1000007247**
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

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO  
in vivo (Rabbit): Not irritant  Experimental result, Key study

Distillates, Petroleum, Hydrotreated Light Naphthenic  
in vivo (Rabbit): Not irritant  Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic  
in vivo (Rabbit): Not irritant  Experimental result, Key study

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

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

**Serious Eye Damage/Eye Irritation**

**Product:**  
No data available.

**Specified substance(s):**

Distillates (petroleum), hydrotreated light  
Rabbit, 24 - 72 hrs: Not irritating

Distillates (petroleum), hydrotreated heavy naphthenic  
Rabbit, 48 hrs: Not irritating

Ethanol, 2-(2-butoxyethoxy)-  
Rabbit, 24 - 72 hrs: Highly irritating

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO  
Rabbit, 48 hrs: Not irritating

Distillates, Petroleum, Hydrotreated Light Naphthenic  
Rabbit, 48 hrs: Not irritating

Distillates (petroleum), solvent-dewaxed heavy paraffinic  
Rabbit, 48 hrs: Not irritating

Distillates (petroleum), hydrotreated light paraffinic  
Rabbit, 48 hrs: Not irritating

Distillates (petroleum), solvent-dewaxed light paraffinic  
Rabbit, 48 hrs: Not irritating
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

Skin sensitization:, in vivo (Guinea pig): Non sensitising

Distillates (petroleum), hydrotreated heavy naphthenic
Skin sensitization:, in vivo (Guinea pig): Non sensitising
Proprietary
Skin sensitization:, in vivo (Guinea pig): Non sensitising

Distillates, Petroleum, Hydrotreated Light Naphthenic
Skin sensitization:, in vivo (Guinea pig): Non sensitising

Distillates (petroleum), solvent-dewaxed heavy paraffinic
Skin sensitization:, in vivo (Guinea pig): Non sensitising

Distillates (petroleum), hydrotreated light paraffinic
Skin sensitization:, in vivo (Guinea pig): Non sensitising

Distillates (petroleum), solvent-dewaxed light paraffinic
Skin sensitization:, in vivo (Guinea pig): Non sensitising

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):
- Distillates (petroleum), hydrotreated light
- Distillates, Petroleum, Hydrocracked Light 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:** No data available.

**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 <3% DMSO
  - LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study
- Distillates, Petroleum, Hydrocracked 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:** No data available.

**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)-

Proprietary

Distillates (petroleum),
hydrotreated heavy
paraffinic <3% DMSO

Distillates, Petroleum,
Hydrotreated Light
Naphthenic

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic

Distillates (petroleum),
hydrotreated light
paraffinic

Distillates (petroleum),
solvent-dewaxed light
paraffinic

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

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 <3% DMSO

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

Distillates (petroleum),
hydrotreated light
paraffinic

NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

Distillates (petroleum),
solvent-dewaxed light
paraffinic

NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study

Aquatic Invertebrates
Product: No data available.
Specified substance(s):
Distillates (petroleum), hydrotreated heavy naphthenic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO

NOAEL (Daphnia magna): >= 1,000 mg/l Experimental result, Supporting study

Distillates, Petroleum, Hydrotreated Light Napthenic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic

EC 50 (Daphnia magna): > 1,000 mg/l Experimental result, Supporting study

Distillates (petroleum), hydrotreated light paraffinic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed light paraffinic

NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Toxicity to Aquatic Plants
Product:
No data available.

Specified substance(s):
Proprietary

EC 50 (72 h): > 100 mg/l
NOEC (72 h): > 100 mg/l

Persistence and Degradability

Biodegradation
Product:
No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated light

61 % Detected in water. Experimental result, Supporting study

Distillates (petroleum), hydrotreated heavy naphthenic

31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
2 - 4 % (28 d) Detected in water. Experimental result, 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

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 <3% DMSO

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 Napthenic

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 <3% DMSO
No data available.

Distillates, Petroleum, Hydrotreated Light Naphthenic
No data available.

Distillates (petroleum), solvent-dewaxed heavy paraffinic
No data available.

Distillates (petroleum), hydrotreated light paraffinic
No data available.

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) 2.1
Class:
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></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</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Ethanol, 2-(2-butoxyethoxy)-</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy paraffinic &lt;3% DMSO</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates, Petroleum, Hydrotreated Light Naphthenic</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed heavy paraffinic</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light paraffinic</td>
<td>10000 lbs</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), solvent-dewaxed light paraffinic</td>
<td>10000 lbs</td>
<td></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
Chemical Identity
Distillates (petroleum), hydrotreated light
Distillates (petroleum), hydrotreated heavy naphthenic
Propane
Ethanol, 2-(2-butoxyethoxy)-
Distillates (petroleum), hydrotreated heavy paraffinic <3% DMSO
Distillates, Petroleum, Hydrotreated Light Naphthenic
Distillates (petroleum), solvent-dewaxed heavy paraffinic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic

US. Massachusetts RTK - Substance List
Chemical Identity
Distillates, Petroleum, Hydrotreated Light Naphthenic
Distillates (petroleum), hydrotreated light paraffinic
Distillates (petroleum), solvent-dewaxed light paraffinic

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
Distillates (petroleum), hydrotreated light
Distillates (petroleum), hydrotreated heavy naphthenic
Propane
Ethanol, 2-(2-butoxyethoxy)-

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:** 01/24/2020

**Revision Information:** No data available.

**Version #:** 1.1

**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.