SAFETY DATA SHEET

1. Identification

Product identifier: Claire Penetrating Gel Lubricant with PTFE - C-4736

Other means of identification
SDS number: RE1000029320

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
- Serious Eye Damage/Eye Irritation Category 2A
- Specific Target Organ Toxicity - Single Exposure Category 31
- Specific Target Organ Toxicity - Repeated Exposure Category 2
- Aspiration Hazard Category 1

Target Organs
1. Narcotic effect.

Environmental Hazards
- Acute hazards to the aquatic environment Category 3

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: Extremely flammable aerosol. Causes serious eye irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. 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. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Keep container tightly closed. 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>2-Propanone</td>
<td>67-64-1</td>
<td>20 - &lt;50%</td>
</tr>
<tr>
<td>Petrolatum</td>
<td>8009-03-8</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>79-20-9</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>5 - &lt;10%</td>
</tr>
</tbody>
</table>
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. If skin irritation occurs: Get medical advice/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.

**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.

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

8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>STEL</td>
<td>1,000 ppm  2,400 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>1,000 ppm  2,400 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>250 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>750 ppm  1,800 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>250 ppm  590 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td>Petrolatum - Inhalable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
<tr>
<td>Petrolatum - 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 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>Substance</td>
<td>TWA</td>
<td>STEL</td>
<td>PEL</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>----------</td>
<td>----------</td>
<td>----------</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>200 ppm</td>
<td>250 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>610 mg/m³</td>
<td>760 mg/m³</td>
<td>610 mg/m³</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>100 ppm</td>
<td>100 ppm</td>
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<tr>
<td></td>
<td>400 ppm</td>
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<tr>
<td></td>
<td>54,000 mg/m³</td>
<td>9,000 mg/m³</td>
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<tr>
<td>Carbon dioxide</td>
<td>5,000 ppm</td>
<td>30,000 ppm</td>
<td>5,000 ppm</td>
</tr>
<tr>
<td></td>
<td>54,000 mg/m³</td>
<td>9,000 mg/m³</td>
<td>9,000 mg/m³</td>
</tr>
<tr>
<td>Heptane</td>
<td>400 ppm</td>
<td>500 ppm</td>
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<td>1,600 mg/m³</td>
<td>2,000 mg/m³</td>
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<tr>
<td>Cyclohexane, methyl-</td>
<td>500 ppm</td>
<td>500 ppm</td>
<td>500 ppm</td>
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<tr>
<td></td>
<td>2,000 mg/m³</td>
<td>2,000 mg/m³</td>
<td>2,000 mg/m³</td>
</tr>
<tr>
<td>Methanol</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
<tr>
<td></td>
<td>260 mg/m³</td>
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<tr>
<td>Benzene, methyl-</td>
<td>150 ppm</td>
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<td>250 ppm</td>
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<tr>
<td></td>
<td>560 mg/m³</td>
<td>325 mg/m³</td>
<td>325 mg/m³</td>
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<tr>
<td>Ceiling</td>
<td>300 ppm</td>
<td>300 ppm</td>
<td>300 ppm</td>
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<tr>
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<td>375 mg/m³</td>
<td>375 mg/m³</td>
<td>375 mg/m³</td>
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<tr>
<td>Chemical Identity</td>
<td>Exposure Limit Values</td>
<td>Source</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------------------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>2-Propanone (acetone: Sampling time: End of shift.)</td>
<td>25 mg/l (Urine)</td>
<td>ACGIH BEL (03 2015)</td>
<td></td>
</tr>
<tr>
<td>Methanol (methanol: Sampling time: End of shift.)</td>
<td>15 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene, methyl- (toluene: Sampling time: End of shift.)</td>
<td>0.03 mg/l (Urine)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene, methyl- (α-Cresol, with hydrolysis: Sampling time: End of shift.)</td>
<td>0.3 mg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene, methyl- (toluene:</td>
<td>0.02 mg/l (Blood)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
</tbody>
</table>

**Biological Limit Values**
Sampling time: Prior to last shift of work week.

Hexane (2,5-Hexanedion, without hydrolysis: Sampling time: End of shift.)
0.5 mg/l (Urine) ACGIH BEL (03 2018)

Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid: Sampling time: End of shift.)
0.15 g/g (Creatinine in urine) ACGIH BEL (02 2014)

Benzene (S-Phenylmercapturic acid: Sampling time: End of shift.)
25 µg/g (Creatinine in urine) ACGIH BEL (03 2013)

Benzene (t,t-Muconic acid: Sampling time: End of shift.)
500 µg/g (Creatinine in urine) ACGIH BEL (03 2013)

Appropriate Engineering Controls
No data available.

Individual protection measures, such as personal protective equipment

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

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

Skin Protection
Hand Protection: No data available.

Other: Wear 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. Avoid contact with eyes. 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: No data available.
Evaporation rate: No data available.

Flammability (solid, gas): No data available.
Upper/lower limit on flammability or explosive limits
Flammability limit - upper (%): No data available.
### Flammability limit - lower (%): No data available.
### Explosive limit - upper (%): No data available.
### Explosive limit - lower (%): No data available.
### Vapor pressure: 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):**

- **2-Propanone**
  - LD 50 (Rat): 5,800 mg/kg

- **Petrolatum**
  - LD 50 (Rat): > 5,000 mg/kg
  - LD 50 (Rat): > 5,000 mg/kg
  - LD 50 (Rat): > 5,000 mg/kg
  - LD 50 (Rat): > 5,000 mg/kg

- **Distillates (petroleum), hydrotreated light**
  - LD 50 (Rat): > 5,000 mg/kg

- **Acetic acid, methyl ester**
  - LD 50 (Rat): 6,482 mg/kg

- **Naphtha (petroleum), hydrotreated light**
  - LD 50 (Rat): > 5,000 mg/kg

- **Heptane**
  - LD 50 (Rat): > 5,000 mg/kg

- **Cyclohexane, methyl-**
  - LD Lo (Rabbit): 4,000 - 4,500 mg/kg

- **Methanol**
  - ATE: 100 mg/kg
  - LD 50 (Rat): > 1,187 - 2,769 mg/kg

**Dermal**

**Product:** ATEmix: 361,663.65 mg/kg

**Inhalation**

**Product:** ATEmix: 280.29 mg/l

Repeated dose toxicity

**Product:** No data available.

**Specified substance(s):**

- **2-Propanone**
  - NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study
  - LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study
  - NOAEL (Rat(Female, Male), Oral, 2 yr): 5,000 mg/kg Oral Experimental result, Key study
  - NOAEL (Rat(Female, Male), Oral, 2 yr): > 5,700 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Supporting study
  - NOAEL (Rat(Female, Male), Oral, 90 d): 1.5 mg/kg Oral Read-across from
supporting substance (structural analogue or surrogate), Key study
NOAEL (Rat(Female, Male), Oral, 90 d): 1,500 mg/kg Oral Read-across
from supporting substance (structural analogue or surrogate), Key study
Distillates (petroleum), hydrotreated light
NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation
Experimental result, Key study
NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
Acetic acid, methyl ester
NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation
Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation
Experimental result, Key study
Naphtha (petroleum), hydrotreated light
LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg Oral Read-across based on grouping of substances (category approach), Key study
NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal
Experimental result, Supporting study
NOAEL (Rat(Female, Male), Inhalation): 10,000 mg/m3 Inhalation
Experimental result, Key study
Heptane
NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 Inhalation Experimental result, Key study
Cyclohexane, methyl-
NOAEL (Rat(Female, Male), Inhalation): 1,600 mg/m3 Inhalation
Experimental result, Key study
LOAEL (Rat(Female, Male), Oral, 28 d): 1,000 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Oral, 28 d): 250 mg/kg Oral Experimental result, Key study
Methanol
LOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 13.3 mg/l Inhalation
Experimental result, Supporting study

**Skin Corrosion/Irritation**

**Product:** No data available.

**Specified substance(s):**

- 2-Propanone: in vivo (Rabbit): Not irritant Experimental result, Supporting study
- Petrolatum: in vivo (Rabbit): Not irritant Read-across from supporting substance (structural analogue or surrogate), Key study
- Distillates (petroleum), hydrotreated light: in vivo (Rabbit): Not irritant Experimental result, Key study
- Acetic acid, methyl ester: in vivo (Rabbit): Not irritant Experimental result, Key study
- Heptane: in vivo (Rabbit): Irritating Read-across based on grouping of substances (category approach), Key study
- Methanol: in vivo (Rabbit): Not irritant Experimental result, Key study

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Specified substance(s):**

- 2-Propanone: Irritating.
  Rabbit, 24 hrs: Minimum grade of severe eye irritant
**Petrolatum**  
Rabbit, 24 - 72 hrs: Not irritating  
Rabbit, 24 - 72 hrs: Not irritating  
Rabbit, 24 - 72 hrs: Not irritating

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

**Acetic acid, methyl ester**  
Rabbit: Irritating

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

**Heptane**  
Rabbit, 24 - 72 hrs: Not irritating

**Cyclohexane, methyl-**  
Rabbit, 0.5 - 168 hrs: Not irritating

### Respiratory or Skin Sensitization

**Product:** No data available.

**Specified substance(s):**

- 2-Propanone  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

- Petrolatum  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

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

- Naphtha (petroleum), hydrotreated light  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

- Heptane  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

- Cyclohexane, methyl-  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

- Methanol  
  Skin sensitization:; in vivo (Guinea pig): Non sensitising

### Carcinogenicity

**Product:** No data available.

**Specified substance(s):**

- Cyclohexane, methyl-  
  May cause cancer.

#### 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.
Specified substance(s):
- 2-Propanone: Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
- Heptane: Narcotic effect. - Category 3 with narcotic effects.
- Cyclohexane, methyl-: Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.
- Methanol: Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.
Specified substance(s):
- Cyclohexane, methyl-: Category 1

Target Organs
Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard
Product: No data available.
Specified substance(s):
- Distillates (petroleum), hydrotreated light: May be fatal if swallowed and enters airways.
- Naphtha (petroleum), hydrotreated light: May be fatal if swallowed and enters airways.
- Heptane: May be fatal if swallowed and enters airways.
- Cyclohexane, methyl-: 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):
- 2-Propanone: LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study
- Petrolatum: LL 50 (Pimephales promelas, 96 h): > 100 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Pimephales promelas, 96 h): >= 100 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study LL 50 (Oncorhynchus mykiss, 96 h): > 1,000 mg/l QSAR QSAR, Supporting study
- Acetic acid, methyl ester: LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality
- Naphtha (petroleum), hydrotreated light: LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study
- Naphtha (petroleum), hydrotreated light: LC 50 (96 h): 8.41 mg/l Experimental result, Key study
### Aquatic Invertebrates Product:

<table>
<thead>
<tr>
<th>Specified substance(s):</th>
<th>LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l</th>
<th>Mortality</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane</td>
<td>2.07 mg/l Experimental result, Key study</td>
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</tr>
<tr>
<td>Cyclohexane, methyl-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>12,700 mg/l Experimental result, Key study</td>
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</tr>
</tbody>
</table>

#### Chronic hazards to the aquatic environment:

**Fish**

**Product:** No data available.

**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC 50 (Daphnia pulex, 48 h): 8,800 mg/l</th>
<th>Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petrolatum</td>
<td>&gt;= 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study</td>
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<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
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<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>1,5 mg/l Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>18,260 mg/l Experimental result, Key study</td>
<td></td>
</tr>
</tbody>
</table>

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC 50 (Daphnia magna, 96 h): 1.5 mg/l</th>
<th>Experimental result, Key study</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Acetic acid, methyl ester**

EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study

**Naphtha (petroleum), hydrotreated light**

EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study

**Heptane**

EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study

**Methanol**

EC 50 (Daphnia magna, 96 h): 18,260 mg/l Experimental result, Key study
<table>
<thead>
<tr>
<th>Substance</th>
<th>NOAEL (Daphnia magna):</th>
<th>Toxicity to Aquatic Plants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petrolatum</td>
<td>10 mg/l Read-across from supporting substance (structural analogue or surrogate), Key study</td>
<td>No data available.</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>10 mg/l Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>0.17 mg/l Read-across based on grouping of substances (category approach), Key study</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>122 mg/l Experimental result, Supporting study</td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**

<table>
<thead>
<tr>
<th>Specified substance(s):</th>
<th>Biodegradation Product:</th>
<th>Bioaccumulative potential</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Propanone</td>
<td>No data available.</td>
<td>Bioconcentration Factor (BCF): 0.69 Aquatic sediment Haddock, adult, Experimental result, Not specified</td>
</tr>
<tr>
<td>Petrolatum</td>
<td>90.9 % (28 d) Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>61 % Detected in water. Experimental result, Supporting study</td>
<td>Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>70 % Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>90.35 % (28 d) Detected in water. Experimental result, Supporting study</td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>70 % Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
<tr>
<td>Cyclohexane, methyl</td>
<td>&gt; 0 % (28 d) Detected in water. Experimental result, Weight of Evidence study</td>
<td></td>
</tr>
<tr>
<td>Methanol</td>
<td>97 % Detected in water. Experimental result, Key study</td>
<td></td>
</tr>
</tbody>
</table>
Heptane  Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
Cyclohexane, methyl-  Cyprinus carpio, Bioconcentration Factor (BCF): > 95 - < 321 Aquatic sediment Experimental result, Key study
Methanol  Leuciscus idus, Bioconcentration Factor (BCF): < 10 Aquatic sediment Experimental result, Supporting study

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

Specified substance(s):
Naphtha (petroleum), hydrotreated light  Log Kow: > 2.4 - < 5.7 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 5.2 23 °C Yes Experimental result, Key study
Log Kow: 2.2 - 6.1 23 °C Yes Experimental result, Key study

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
2-Propanone  No data available.
Petrolatum  No data available.
Distillates (petroleum), hydrotreated light  No data available.
Acetic acid, methyl ester  No data available.
Naphtha (petroleum), hydrotreated light  No data available.
Carbon dioxide  No data available.
Heptane  No data available.
Cyclohexane, methyl-  No data available.
Methanol  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: –
Environmenal 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: –
Environmenal 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>Benzene</td>
<td>Flammability</td>
</tr>
<tr>
<td></td>
<td>Cancer</td>
</tr>
<tr>
<td></td>
<td>Aspiration</td>
</tr>
<tr>
<td></td>
<td>Eye</td>
</tr>
<tr>
<td></td>
<td>Blood</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
</tr>
<tr>
<td></td>
<td>respiratory tract irritation</td>
</tr>
<tr>
<td></td>
<td>Central nervous system</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>2-Propanone</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Cyclohexane, methyl-</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Methanol</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Hexane</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>lbs. 1000</td>
</tr>
</tbody>
</table>
Benzene, ethyl- lbs. 1000
Benzene lbs. 10

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Fire Hazard
- Immediate (Acute) Health Hazards
- Delayed (Chronic) Health Hazard
- Flammable aerosol
- Serious Eye Damage/Eye Irritation
- Specific Target Organ Toxicity - Single Exposure
- Specific Target Organ Toxicity - Repeated Exposure
- 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>2-Propanone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hexane</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>2-Propanone</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Cyclohexane, methyl-</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Methanol</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Hexane</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene</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>2-Propanone</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Petrolatum</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Acetic acid, methyl ester</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Heptane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclohexane, methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Methanol</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Hexane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Cyclohexane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.
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.
- Methanol  Developmental toxin. 03 2012
- Benzene, methyl-  Developmental toxin. 03 2008
- Hexane  Male reproductive toxin. 12 2017
- Benzene, ethyl-  Carcinogenic. 05 2011
- Benzene  Developmental toxin. 03 2008
- Benzene  Carcinogenic. 05 2011
- Benzene  Male reproductive toxin. 03 2008

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

**Chemical Identity**
- 2-Propanone
- Petrolatum
- Distillates (petroleum), hydrotreated light
- Acetic acid, methyl ester
- Naphtha (petroleum), hydrotreated light
- Carbon dioxide
- Heptane

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

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**
- 2-Propanone
- Petrolatum
- Distillates (petroleum), hydrotreated light
- Acetic acid, methyl ester
- Naphtha (petroleum), hydrotreated light
- Carbon dioxide
- Heptane

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

**International regulations**

**Montreal protocol**
- 2-Propanone
- Distillates (petroleum), hydrotreated light
- Acetic acid, methyl ester

**Stockholm convention**
- 2-Propanone
- Distillates (petroleum), hydrotreated light
- Acetic acid, methyl ester

**Rotterdam convention**

SDS_US - RE1000029320
2-Propanone
Distillates (petroleum), hydrotreated light
Acetic acid, methyl ester

Kyoto protocol
Inventory Status:

- Australia AICS: On or in compliance with the inventory
- Canada DSL Inventory List: On or in compliance with the inventory
- EINECS, ELINCS or NLP: Not in compliance with the inventory.
- Japan (ENCS) List: Not in compliance with the inventory.
- 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.
- Philippines PICCS: On or in compliance with the inventory
- US TSCA Inventory: On or in compliance with the inventory
- New Zealand Inventory of Chemicals: On or in compliance with the inventory
- Japan ISHL Listing: Not in compliance with the inventory.
- Japan Pharmacopoeia Listing: Not in compliance with the inventory.
- Mexico INSQ: Not in compliance with the inventory.
- Ontario Inventory: Not in compliance with the inventory.
- Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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

Issue Date: 01/03/2020
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.