SAFETY DATA SHEET

1. Identification

Product identifier: CLAIRE INDUSTRIAL WHITE GREASE

Other means of identification
SDS number: RE1000029335

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

Environmental Hazards
Acute hazards to the aquatic environment Category 2
Chronic hazards to the aquatic environment Category 2

Label Elements

Hazard Symbol:

Signal Word: Danger
**Hazard Statement:**
Extremely flammable aerosol.
May be fatal if swallowed and enters airways.
Toxic to aquatic life with long lasting effects.

**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. Avoid release to the environment.

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

**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>25 - &lt;50%</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>10 - &lt;20%</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>426260-76-6</td>
<td>2.5 - &lt;5%</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>64742-49-0</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light alph.</td>
<td>64742-89-8</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>13463-67-7</td>
<td>1 - &lt;5%</td>
</tr>
</tbody>
</table>

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

### 4. First-aid measures

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

**Inhalation:**
Move to fresh air.

**Skin Contact:**
Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
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. Avoid release to the environment.
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 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>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></td>
<td>200 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</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>Naphtha (petroleum), hydrotreated light</td>
<td>PEL</td>
<td>100 ppm 400 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>100 ppm 400 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm 400 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph.</td>
<td>REL</td>
<td>100 ppm 400 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2010)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm 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>100 ppm 400 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Heptane</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>REL</td>
<td>85 ppm 350 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</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></td>
<td>STEL</td>
<td>500 ppm 2,000 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>400 ppm</td>
<td>US. ACGIH Threshold Limit Values (02 2012)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>500 ppm</td>
<td>US. ACGIH Threshold Limit Values (02 2012)</td>
</tr>
<tr>
<td></td>
<td>Ceil_Time</td>
<td>440 ppm 1,800 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2005)</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2008)</td>
</tr>
<tr>
<td>Titanium oxide (TiO2) - Total dust.</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Titanium oxide (TiO2) - Respirable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Titanium oxide (TiO2) - Total dust.</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (03 2016)</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>STEL</td>
<td>150 ppm 560 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td>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>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: Sampling time: Prior to last shift of work week.)</td>
<td>0.02 mg/l (Blood)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene (S-Phenylmercapturic acid; Sampling time: End of shift.)</td>
<td>25 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene (t,t-Muconic acid; Sampling time: End of shift.)</td>
<td>500 µg/g (Creatinine in urine)</td>
<td>ACGIH BEL (03 2013)</td>
<td></td>
</tr>
<tr>
<td>Benzene, ethyl- (Sum of mandelic acid and phenylglyoxylic acid; Sampling time: End of shift.)</td>
<td>0.15 g/g (Creatinine in urine)</td>
<td>ACGIH BEL (02 2014)</td>
<td></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: Aerosols
Color: White
Odor: No data available.
Odor threshold: No data available.
PpH: No data available.
Melting point/freezing point: No data available.
Initial boiling point and boiling range: No data available.
Flash Point: -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 (%): No data available.
Flammability limit - lower (%): No data available.
Explosive limit - upper (%): No data available.
Explosive limit - lower (%): No data available.

Vapor pressure: 4,826.3 - 6,205.3 hPa (20 °C)

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

Auto-ignition temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.
10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No data available.

Conditions to avoid: Avoid heat or contamination.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

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

Specified substance(s):

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

Heptane, branched, cyclic and linear LD 50: > 2,000 mg/kg

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

Naphtha (petroleum), hydrotreated light LD 50 (Rat): > 5,000 mg/kg
Solvent naphtha (petroleum), light aliph.
LD 50 (Rat): > 5,000 mg/kg

Titanium oxide (TiO2)
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
- Heptane, branched, cyclic and linear
  LD 50: > 2,000 mg/kg
- Heptane
  LD 50 (Rabbit): > 2,000 mg/kg
- Naphtha (petroleum), hydrotreated light
  LD 50 (Rabbit): > 3,750 mg/kg
- Solvent naphtha (petroleum), light aliph.
  LD 50 (Rabbit): > 2,000 mg/kg
- Titanium oxide (TiO2)
  LD 50: > 2,000 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
- Propane
  LC 50: > 100 mg/l
  LC 50: > 100 mg/l
- Heptane, branched, cyclic and linear
  LC 50: > 20 mg/l
  LC 50: > 5 mg/l
- Heptane
  LC 50 (Rat): > 29.29 mg/l
- Naphtha (petroleum), hydrotreated light
  LOAEL (Human): 2,400 mg/m3
  LC 50 (Rat): > 7,630 mg/m3
  LC 50: > 5 mg/l
- Solvent naphtha (petroleum), light aliph.
  LC 50: 5.6 mg/l
  LC 50: > 20 mg/l
  LOAEL (Human): 4,320 mg/m3
  LC 50 (Rat): > 7,630 mg/m3
Titanium oxide (TiO2) LC 50 (Rat): > 6.82 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
NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
Propane NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Heptane NOAEL (Rat(Male), Inhalation): 12,470 mg/m3 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
Solvent naphtha (petroleum), light aliph. NOAEL (Mouse, Rat(Female, Male), Inhalation, 107 - 113 Weeks): 1,402 mg/m3 Inhalation Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 5 - 28 d): 3,750 mg/kg Dermal Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 28 d): > 375 mg/kg Dermal Experimental result, Supporting study
Titanium oxide (TiO2) NOAEL (Rat(Male), Oral, 29 d): 24,000 mg/kg Oral Experimental result, Key study
NOAEL (Rat(Female, Male), Inhalation): 50 mg/m3 Inhalation Experimental result, Key study

Skin Corrosion/Irritation
Product: No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated light 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
Solvent naphtha (petroleum), light aliph. Assessment Non-Irritating in vivo (Rabbit): Irritating Experimental result, Key study
Titanium oxide (TiO2) 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
Heptane Rabbit, 24 - 72 hrs: Not irritating
Naphtha (petroleum), hydrotreated light
Rabbit, 24 - 72 hrs: Not irritating

Solvent naphtha (petroleum), light aliph.
Rabbit: Not irritating

Titanium oxide (TiO2)
Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Specified substance(s):
- Distillates (petroleum), hydrotreated light
- Heptane
- Naphtha (petroleum), hydrotreated light
- Solvent naphtha (petroleum), light aliph.
- Titanium oxide (TiO2)
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.

Specified substance(s):
- Heptane
Narcotic effect. - Category 3 with narcotic effects.

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

Aspiration Hazard
Product: No data available.

Specified substance(s):
- Distillates (petroleum), hydrotreated light
May be fatal if swallowed and enters airways.
Heptane, branched, cyclic and linear
Heptane
Naphtha (petroleum), hydrotreated light
Solvent naphtha (petroleum), light aliph.

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

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):
Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Heptane LC 50 (Mozambique tilapia (Tilapia mossambica), 96 h): 375 mg/l Mortality
Naphtha (petroleum), hydrotreated light LC 50 (96 h): 8.41 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph. LL 50 (Pimephales promelas, 96 h): 8.2 mg/l Experimental result, Key study
Titanium oxide (TiO2) LC 50 (Onchorhynchus mykiss, 96 h): > 100 mg/l Experimental result, Weight of Evidence study

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Heptane EC 50 (Daphnia magna, 48 h): 1.5 mg/l Experimental result, Key study
Naphtha (petroleum), hydrotreated light EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study
Solvent naphtha (petroleum), light aliph. EC 50 (Daphnia magna, 48 h): 4.5 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): 0.5 mg/l Experimental result, Key study
Titanium oxide (TiO2) LC 50 (Daphnia magna, 48 h): > 100 mg/l Experimental result, Weight of Evidence study

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated light NOAEL (Onchorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Heptane NOAEL (Onchorhynchus mykiss): 1.284 mg/l QSAR QSAR, Key study
Naphtha (petroleum), hydrotreated light
EC 50 (Daphnia magna): 10 mg/l Other, Key study
NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Solvent naphtha (petroleum), light aliph.
NOAEL (Daphnia magna): 2.6 mg/l Other, Key study

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
Heptane, branched, cyclic and linear

Heptane
NOAEL (Daphnia magna): 0.17 mg/l Read-across based on grouping of substances (category approach), Key study
EC 50 (Daphnia magna): 0.23 mg/l Read-across based on grouping of substances (category approach), Key study

Naphtha (petroleum), hydrotreated light
EC 50 (Daphnia magna): 10 mg/l Experimental result, Key study
NOAEL (Daphnia magna): 2.6 mg/l Experimental result, Key study

Solvent naphtha (petroleum), light aliph.
EC 50 (Daphnia magna): > 40 mg/l Experimental result, Key study

Titanium oxide (TiO2)
NOAEL (Daphnia magna): 100 mg/l Experimental result, Supporting study

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

Specified substance(s):
Distillates (petroleum), hydrotreated light
61 % 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

Heptane
70 % Detected in water. Experimental result, Key study

Naphtha (petroleum), hydrotreated light
90.35 % (28 d) Detected in water. Experimental result, Supporting study

Solvent naphtha (petroleum), light aliph.
90.35 % (28 d) Detected in water. Experimental result, Supporting study
77.05 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: No data available.
Specified substance(s):
- Heptane: Bioconcentration Factor (BCF): 552 Aquatic sediment Estimated by calculation, Key study
- Naphtha (petroleum), hydrotreated light: Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
- Solvent naphtha (petroleum), light aliph.: Bioconcentration Factor (BCF): 10 - 2,500 Aquatic sediment Estimated by calculation, Key study
- Titanium oxide (TiO2): Oncorhynchus mykiss, Bioconcentration Factor (BCF): 34 - 352 Aquatic sediment Experimental result, Key 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
- Distillates (petroleum), hydrotreated light: No data available.
- Propane: No data available.
- Heptane, branched, cyclic and linear: No data available.
- Heptane: No data available.
- Naphtha (petroleum), hydrotreated light: No data available.
- Solvent naphtha (petroleum), light aliph.: No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

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
- 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.: F-D, S-U
Packing Group: –
Environmental Hazards: Yes
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: Yes
Marine Pollutant: No
Special precautions for user: Not regulated.
Cargo aircraft only: Allowed.

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>Propane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene</td>
<td>lbs. 10</td>
</tr>
<tr>
<td>Benzene, (1-methylethyl)-</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>lbs. 1000</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>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), hydrotreated light</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>Heptane</td>
<td>lbs. 100</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>lbs. 1000</td>
</tr>
<tr>
<td>Benzene</td>
<td>lbs. 10</td>
</tr>
<tr>
<td>Benzene, (1-methylethyl)-</td>
<td>lbs. 5000</td>
</tr>
<tr>
<td>Benzene, ethyl-</td>
<td>lbs. 1000</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>Propane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Heptane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Naphtha (petroleum), hydrotreated light</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aliph.</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, (1-methylethyl)-</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Benzene, ethyl-</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.

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium oxide (TiO2)</td>
<td>Carcinogenic. 09 2011</td>
</tr>
<tr>
<td>Benzene, methyl-</td>
<td>Developmental toxin. 03 2008</td>
</tr>
<tr>
<td>Benzene</td>
<td>Developmental toxin. 03 2008</td>
</tr>
<tr>
<td>Benzene</td>
<td>Carcinogenic. 05 2011</td>
</tr>
<tr>
<td>Benzene</td>
<td>Male reproductive toxin. 03 2008</td>
</tr>
</tbody>
</table>
Benzene, (1-methylethyl)- Carcinogenic. 05 2011
Benzene, ethyl- Carcinogenic. 05 2011

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

**Chemical Identity**
- Distillates (petroleum), hydrotreated light
- Propane
- Naphtha (petroleum), hydrotreated light
- Solvent naphtha (petroleum), light aliph.
- Heptane
- Titanium oxide (TiO2)

**US. Massachusetts RTK - Substance List**

**Chemical Identity**
- Benzene

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**
- Distillates (petroleum), hydrotreated light
- Propane
- Naphtha (petroleum), hydrotreated light
- Solvent naphtha (petroleum), light aliph.
- Heptane
- Titanium oxide (TiO2)

**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:
Australia AIICS: Not 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: 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.
Taiwan Chemical Substance Inventory: On or in compliance with the inventory

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

Issue Date: 11/20/2019
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.