

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** STAINLESS STEEL CLEANER

**Other means of identification**

**SDS number:** RE1000003397

**Recommended restrictions**

**Recommended use:** Cleaner.

**Restrictions on use:** Not known.

**Manufacturer/Importer/Distributor Information**

**Manufacturer**

**Company Name:** RICHELIEU HARDWARE LTD.  
**Address:** 7900 HENRI BOURASSA BLVD.  
Montreal, QC H4S 1V4  
**Telephone:** 800-361-6000

**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

Skin sensitizer Category 1

Aspiration Hazard Category 1

**Label Elements**

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Extremely flammable aerosol.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
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. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/eye protection/face protection.

**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. 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.

**Storage:** Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

**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.

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity                           | Common name and synonyms | CAS number | Content in percent (%)* |
|---|--------------------------|------------|-------------------------|
| Distillates (petroleum), hydrotreated light |                          | 64742-47-8 | 15 - 40%                |
| White mineral oil (petroleum)               |                          | 8042-47-5  | 10 - 30%                |
| 2-Propanone                                 |                          | 67-64-1    | 10 - 30%                |
| Propane                                     |                          | 74-98-6    | 10 - 30%                |
| 2,6-Octadienal, 3,7-dimethyl-               |                          | 5392-40-5  | 0.1 - 1%                |

\* 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:** Get medical attention if symptoms occur. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

#### Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

#### Indication of immediate medical attention and special treatment needed

**Treatment:** No data available.

### 5. Fire-fighting measures

**General Fire Hazards:** Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Vapors may travel considerable distance to a source of ignition and flash back.

### Special protective equipment and precautions for firefighters

**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

## 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. Pressurized container: Do not pierce or burn, even after use. Avoid contact with eyes, skin, and clothing.

**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

| Chemical Identity   | Type | Exposure Limit Values | Source  |
|---|------|-----------------------|---|
| Distillates (petroleum), hydrotreated light   | TWA  | 525 mg/m <sup>3</sup> | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007)  |
| Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor | TWA  | 200 mg/m <sup>3</sup> | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |

|   |               |                                   |   |
|---|---------------|-----------------------------------|---|
| Distillates (petroleum), hydrotreated light - Vapor. - as total hydrocarbon vapor       | TWA           | 200 mg/m <sup>3</sup>             | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
| Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor | TWA           | 200 mg/m <sup>3</sup>             | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)  |
| Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor | TWA           | 200 mg/m <sup>3</sup>             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)  |
| Distillates (petroleum), hydrotreated light - Vapor. - as total hydrocarbons            | 8 HR<br>ACL   | 200 mg/m <sup>3</sup>             | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
|   | 15 MIN<br>ACL | 250 mg/m <sup>3</sup>             | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
|   | TWA           | 200 mg/m <sup>3</sup>             | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)  |
|   | TWA           | 200 mg/m <sup>3</sup>             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)  |
| Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor | TWA           | 200 mg/m <sup>3</sup>             | US. ACGIH Threshold Limit Values, as amended (2008)   |
|   | TWA           | 200 mg/m <sup>3</sup>             | US. ACGIH Threshold Limit Values, as amended (2008)   |
| White mineral oil (petroleum) - Mist.   | STEL          | 10 mg/m <sup>3</sup>              | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
|   | TWA           | 5 mg/m <sup>3</sup>               | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
| White mineral oil (petroleum) - Mist.   | TWA           | 1 mg/m <sup>3</sup>               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| White mineral oil (petroleum)   | 8 HR<br>ACL   | 5 mg/m <sup>3</sup>               | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
|   | 15 MIN<br>ACL | 10 mg/m <sup>3</sup>              | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| White mineral oil (petroleum) - Inhalable fraction.                                     | TWA           | 5 mg/m <sup>3</sup>               | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)  |
| White mineral oil (petroleum) - Inhalable fraction.                                     | TWA           | 5 mg/m <sup>3</sup>               | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)  |
| White mineral oil (petroleum) - Mist.   | TWA           | 5 mg/m <sup>3</sup>               | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |
|   | TWA           | 5 mg/m <sup>3</sup>               | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)  |
|   | STEL          | 10 mg/m <sup>3</sup>              | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |
| White mineral oil (petroleum) - Inhalable fraction.                                     | TWA           | 5 mg/m <sup>3</sup>               | US. ACGIH Threshold Limit Values, as amended (01 2010)  |
| 2-Propanone   | STEL          | 750 ppm 1,800 mg/m <sup>3</sup>   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
| 2-Propanone   | STEL          | 500 ppm                           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 2-Propanone   | TWA           | 250 ppm                           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)  |
|   | STEL          | 500 ppm                           | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)  |
|   | TWA           | 250 ppm                           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| 2-Propanone   | TWA           | 250 ppm                           | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)  |
| 2-Propanone   | 8 HR<br>ACL   | 500 ppm                           | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
|   | STEL          | 500 ppm                           | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2015)  |
| 2-Propanone   | STEL          | 1,000 ppm 2,380 mg/m <sup>3</sup> | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |

|   |               |                       |   |
|---|---------------|-----------------------|---|
|   | TWA           | 500 ppm 1,200 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
|   | TWA           | 500 ppm 1,190 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |
|   | 15 MIN<br>ACL | 750 ppm               | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| 2-Propanone   | TWA           | 250 ppm               | US. ACGIH Threshold Limit Values, as amended (03 2015)  |
|   | STEL          | 500 ppm               | US. ACGIH Threshold Limit Values, as amended (03 2015)  |
| Propane   | TWA           | 1,000 ppm             | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
| Propane   | 8 HR<br>ACL   | 1,000 ppm             | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| Propane   | TWA           | 1,000 ppm 1,800 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (12 2008)                                    |
| Propane   | TWA           | 1,000 ppm             | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|   | 15 MIN<br>ACL | 1,250 ppm             | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| 2,6-Octadienal, 3,7-dimethyl-<br>- Inhalable fraction and<br>vapor. | TWA           | 5 ppm                 | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)  |
| 2,6-Octadienal, 3,7-dimethyl-<br>- Inhalable fraction and<br>vapor. | TWA           | 5 ppm                 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)  |
| 2,6-Octadienal, 3,7-dimethyl-<br>- Inhalable fraction and<br>vapor. | TWA           | 5 ppm                 | US. ACGIH Threshold Limit Values, as amended (01 2010)  |
| Naphtha (petroleum), heavy<br>alkylate                              | 8 HR<br>ACL   | 400 ppm               | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| Naphtha (petroleum), heavy<br>alkylate                              | TWA           | 400 ppm 1,590 mg/m3   | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)   |
|   | 15 MIN<br>ACL | 500 ppm               | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| Naphtha (petroleum), heavy<br>alkylate                              | TWA           | 525 mg/m3             | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)  |
| Naphtha (petroleum), heavy<br>alkylate                              | TWA           | 400 ppm 1,590 mg/m3   | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | TWA           | 20 ppm                | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | TWA           | 20 ppm                | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (12 2007)  |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | 15 MIN<br>ACL | 30 ppm                | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
|   | 8 HR<br>ACL   | 20 ppm                | Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21), as amended (05 2009)  |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | TWA           | 20 ppm                | Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended (03 2011)  |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | TWA           | 20 ppm 112 mg/m3      | Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment), as amended (09 2017)                                    |
| Bicyclo[3.1.1]hept-2-ene,<br>2,6,6-trimethyl-                       | TWA           | 20 ppm                | US. ACGIH Threshold Limit Values, as amended (2008)   |

Appropriate Engineering  
Controls

No data available.

## Individual protection measures, such as personal protective equipment

|                                |  |
|--------------------------------|--|
| <b>General information:</b>    | 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. |
| <b>Eye/face protection:</b>    | Wear safety glasses with side shields (or goggles).  |
| <b>Skin Protection</b>         |  |
| <b>Hand Protection:</b>        | No data available.   |
| <b>Other:</b>                  | Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.  |
| <b>Respiratory Protection:</b> | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.  |
| <b>Hygiene measures:</b>       | Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.   |

## 9. Physical and chemical properties

### Appearance

|  |                    |
|--|--------------------|
| <b>Physical state:</b>                                       | liquid             |
| <b>Form:</b>   | Spray Aerosol      |
| <b>Color:</b>  | No data available. |
| <b>Odor:</b>   | No data available. |
| <b>Odor threshold:</b>                                       | No data available. |
| <b>pH:</b>   | No data available. |
| <b>Melting point/freezing point:</b>                         | No data available. |
| <b>Initial boiling point and boiling range:</b>              | No data available. |
| <b>Flash Point:</b>  | Estimated -104 °C  |
| <b>Evaporation rate:</b>                                     | No data available. |
| <b>Flammability (solid, gas):</b>                            | No data available. |
| <b>Upper/lower limit on flammability or explosive limits</b> |                    |
| <b>Flammability limit - upper (%):</b>                       | Estimated 9.5 %(V) |
| <b>Flammability limit - lower (%):</b>                       | Estimated 2.2 %(V) |
| <b>Explosive limit - upper (%):</b>                          | No data available. |
| <b>Explosive limit - lower (%):</b>                          | No data available. |
| <b>Vapor pressure:</b>                                       | No data available. |
| <b>Vapor density:</b>  | No data available. |
| <b>Density:</b>  | No data available. |
| <b>Relative density:</b>                                     | No data available. |
| <b>Solubility(ies)</b>                                       |                    |
| <b>Solubility in water:</b>                                  | No data available. |
| <b>Solubility (other):</b>                                   | No data available. |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available. |
| <b>Auto-ignition temperature:</b>                            | No data available. |
| <b>Decomposition temperature:</b>                            | No data available. |
| <b>Viscosity:</b>  | No data available. |

## 10. Stability and reactivity

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No data available.                          |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions. |
| <b>Possibility of hazardous reactions:</b> | No data available.                          |
| <b>Conditions to avoid:</b>                | Avoid heat or contamination.                |
| <b>Incompatible Materials:</b>             | No data available.                          |
| <b>Hazardous Decomposition Products:</b>   | No data available.                          |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | 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 |
| White mineral oil (petroleum)               | LD 50 (Rat): > 5,000 mg/kg |
| 2-Propanone                                 | LD 50 (Rat): 5,800 mg/kg   |
| Propane                                     | LD 50: > 5,000 mg/kg       |
| 2,6-Octadienal, 3,7-dimethyl-               | LD 50 (Rat): 6,800 mg/kg   |

##### Dermal

**Product:** ATEmix: 2,924.13 mg/kg

### Inhalation

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

**Specified substance(s):**

|   |   |
|---|---|
| Distillates (petroleum), hydrotreated light | LC 50: > 100 mg/l<br>LC 50: > 100 mg/l                          |
| White mineral oil (petroleum)               | LC 50: > 100 mg/l<br>LC 50: > 100 mg/l<br>LC 50 (Rat): > 5 mg/l |
| 2-Propanone                                 | LC 50 (Rat): 50.1 mg/l  |
| Propane                                     | LC 50: > 100 mg/l<br>LC 50: > 100 mg/l                          |
| 2,6-Octadienal, 3,7-dimethyl-               | LC 50: > 100 mg/l<br>LC 50: > 100 mg/l                          |

### Repeated dose toxicity

**Product:** No data available.

**Specified substance(s):**

|   |   |
|---|---|
| Distillates (petroleum), hydrotreated light | NOAEL (Rat(Female, Male), Inhalation): $\geq$ 24 mg/m <sup>3</sup> Inhalation Experimental result, Key study<br>NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study                      |
| White mineral oil (petroleum)               | NOAEL (Rat(Female, Male), Oral, 90 d): $\geq$ 20,000 ppm(m) Oral Experimental result, Key study   |
| 2-Propanone                                 | NOAEL (Rat(Male), Oral, 13 Weeks): 10,000 ppm(m) Oral Experimental result, Key study  |
| Propane                                     | NOAEL (Rat(Female, Male), Inhalation, $\geq$ 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study<br>LOAEL (Rat(Female, Male), Inhalation, $\geq$ 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study |
| 2,6-Octadienal, 3,7-dimethyl-               | LOAEL (Rat(Female), Oral, 14 Weeks): 335 mg/kg Oral 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        |
| White mineral oil (petroleum)               | in vivo (Rabbit): Not irritant Experimental result, Key study        |
| 2-Propanone                                 | in vivo (Rabbit): Not irritant Experimental result, Supporting study |

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Specified substance(s):**

|   |   |
|---|---|
| Distillates (petroleum), hydrotreated light | Rabbit, 24 - 72 hrs: Not irritating                                 |
| White mineral oil (petroleum)               | Rabbit, 24 - 72 hrs: Not irritating                                 |
| 2-Propanone                                 | Irritating.<br>Rabbit, 24 hrs: Minimum grade of severe eye irritant |

### Respiratory or Skin Sensitization

**Product:** No data available.



**Specified substance(s):**

|   |  |
|---|--|
| Distillates (petroleum), hydrotreated light | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| White mineral oil (petroleum)               | Skin sensitization:, in vivo (Guinea pig): Non sensitising |
| 2-Propanone                                 | 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

**ACGIH Carcinogen List:**

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. |
|-------------|--|

**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. |
|---|---|

|                               |   |
|-------------------------------|---|
| White mineral oil (petroleum) | May be fatal if swallowed and enters airways. |
|-------------------------------|---|

**Other effects:** No data available.

**12. Ecological information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

|                               |   |
|-------------------------------|---|
| White mineral oil (petroleum) | NOAEL (Oncorhynchus mykiss, 96 h): $\geq 100$ mg/l Experimental result, Key study |
|-------------------------------|---|

|                               |  |
|-------------------------------|--|
| 2-Propanone                   | LC 50 (Oncorhynchus mykiss, 96 h): 5,540 mg/l Experimental result, Key study |
| Propane                       | LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study                      |
| 2,6-Octadienal, 3,7-dimethyl- | LC 50 (Leuciscus idus, 96 h): 6.78 mg/l Experimental result, Key study       |

#### Aquatic Invertebrates

|   |   |
|---|---|
| <b>Product:</b>   | No data available.  |
| <b>Specified substance(s):</b><br>White mineral oil (petroleum) | NOAEL (Daphnia magna, 48 h): >= 100 mg/l Experimental result, Key study |
| 2-Propanone   | LC 50 (Daphnia pulex, 48 h): 8,800 mg/l Experimental result, Key study  |
| 2,6-Octadienal, 3,7-dimethyl-                                   | EC 50 (Daphnia magna, 48 h): 6.8 mg/l Experimental result, Key study    |

#### Chronic hazards to the aquatic environment:

##### Fish

|   |  |
|---|--|
| <b>Product:</b>   | No data available.   |
| <b>Specified substance(s):</b><br>Distillates (petroleum), hydrotreated light | NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study           |
| White mineral oil (petroleum)   | NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study |

#### Aquatic Invertebrates

|   |  |
|---|--|
| <b>Product:</b>   | No data available.   |
| <b>Specified substance(s):</b><br>White mineral oil (petroleum) | NOAEL (Daphnia magna): >= 1,000 mg/l QSAR QSAR, Supporting study   |
| 2-Propanone   | LOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study<br>NOAEL (Daphnia magna): 2,212 mg/l Experimental result, Key study |

#### Toxicity to Aquatic Plants

|                 |                    |
|-----------------|--------------------|
| <b>Product:</b> | No data available. |
|-----------------|--------------------|

#### Persistence and Degradability

##### Biodegradation

|   |  |
|---|--|
| <b>Product:</b>   | No data available.   |
| <b>Specified substance(s):</b><br>Distillates (petroleum), hydrotreated light | 61 % Detected in water. Experimental result, Supporting study  |
| White mineral oil (petroleum)   | 31 % (28 d) Detected in water. Read-across from supporting substance (structural analogue or surrogate), Supporting study            |
| 2-Propanone   | 90.9 % (28 d) Detected in water. Experimental result, Key study  |
| Propane   | 100 % (385.5 h) Detected in water. Experimental result, Key study<br>50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study |

2,6-Octadienal, 3,7-dimethyl- 85 - 95 % (28 d) Detected in water. Experimental result, Key study

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

2-Propanone Haddock, adult, Bioconcentration Factor (BCF): 0.69 Aquatic sediment  
Experimental result, Not specified

2,6-Octadienal, 3,7-dimethyl- Bioconcentration Factor (BCF): 89.72 Aquatic sediment Estimated by  
calculation, Key study

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

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

**Known or predicted distribution to environmental compartments**

|   |                    |
|---|--------------------|
| Distillates (petroleum), hydrotreated light | No data available. |
| White mineral oil (petroleum)               | No data available. |
| 2-Propanone                                 | No data available. |
| Propane                                     | No data available. |
| 2,6-Octadienal, 3,7-dimethyl-               | 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**

**TDG**

|                               |                     |
|-------------------------------|---------------------|
| UN Number:                    | UN 1950             |
| UN Proper Shipping Name:      | Aerosols, flammable |
| Transport Hazard Class(es)    |                     |
| Class:                        | 2.1                 |
| Label(s):                     | –                   |
| EmS No.:                      |                     |
| Packing Group:                | –                   |
| 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:                        | 2.1                 |
| Label(s):                     | –                   |
| EmS No.:                      | F-D, S-U            |
| 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

### Canada Federal Regulations

#### List of Toxic Substances (CEPA, Schedule 1)

##### Chemical Identity

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

#### Export Control List (CEPA 1999, Schedule 3)

##### Chemical Identity

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

#### National Pollutant Release Inventory (NPRI)

##### Canada. National Pollutant Release Inventory (NPRI) Substances, Part 5, VOCs with Additional Reporting Requirements

|          |   |
|----------|---|
| NPRI PT5 | Distillates (petroleum), hydrotreated light<br>White mineral oil (petroleum)<br>2-Propanone<br>Propane<br>Terpenes and Terpenoids, sweet orange-oil<br>Naphtha (petroleum), heavy alkylate<br>Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-<br>Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- |
|----------|---|

##### Canada. National Pollutant Release Inventory (NPRI) (Schedule 1, Parts 1-4)

|      |   |
|------|---|
| NPRI | Distillates (petroleum), hydrotreated light<br>2-Propanone<br>Terpenes and Terpenoids, sweet orange-oil |
|------|---|

#### Greenhouse Gases

##### Chemical Identity

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

### Controlled Drugs and Substances Act

|            |  |
|------------|--|
| CA CDSI    | Distillates (petroleum), hydrotreated light<br>2-Propanone   |
| CA CDSII   | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone  |
| CA CDSIII  | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone  |
| CA CDSIV   | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone  |
| CA CDSV    | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone  |
| CA CDSVII  | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone  |
| CA CDSVIII | Terpenes and Terpenoids, sweet orange-oil<br>Distillates (petroleum), hydrotreated light<br>2-Propanone<br>Terpenes and Terpenoids, sweet orange-oil |

### Precursor Control Regulations

#### Chemical Identity

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

### International regulations

#### Montreal protocol

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

#### Stockholm convention

Distillates (petroleum), hydrotreated light  
2-Propanone  
Terpenes and Terpenoids, sweet orange-oil

#### Rotterdam convention

|   |                  |
|---|------------------|
| Distillates (petroleum), hydrotreated light | UVCBs-organic    |
| 2-Propanone                                 | Organics         |
| Terpenes and Terpenoids, sweet orange-oil   | UVCBs-biological |

#### Kyoto protocol

**Inventory Status:**

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

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

**Issue Date:** 08/13/2021

**Revision Date:** 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.