SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form: Substance
Trade name: FJC VACUUM PUMP OIL.
CAS No: 64742-52-5
Product code: 2200, 2200-55, 2202

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture: Vacuum Pump Oil

1.3. Details of the supplier of the safety data sheet
Supplier Address
FJC
101 Commercial Drive
Mooresville, NC 28115

1.4. Emergency telephone number
Emergency number: INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (GHS-US)
Not classified

2.2. Label elements
GHS-US labeling
Signal word (GHS-US): Warning

2.3. Other hazards
Other hazards not contributing to the classification: None under normal conditions.

2.4. Unknown acute toxicity (GHS-US)
No data available

SECTION 3: Composition/information on ingredients

3.1. Substance
Name: Distillates (Petroleum), Hydrotreated Heavy Naphthenic
CAS No: 64742-52-5
EC no: 265-155-0
EC index no: 649-465-00-7

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (Petroleum), Hydrotreated Heavy Naphthenic (Main constituent)</td>
<td>(CAS No) 64742-52-5</td>
<td>&gt;= 95</td>
<td>Not classified</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

The exact percentage is a trade secret.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**First-aid measures general**: N (show the label where possible).

**First-aid measures after inhalation**: Allow victim to breathe fresh air. Allow the victim to rest.

**First-aid measures after skin contact**: Remove affected clothing and wash all exposed skin area with warm water rinse.

**First-aid measures after eye contact**: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.

**First-aid measures after ingestion**: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/injuries**: Not expected to present a significant hazard under anticipated conditions of normal use.

**Symptoms/injuries after skin contact**: May cause slight irritation. May cause moderate irritation. Red skin.

**Symptoms/injuries after eye contact**: May cause slight eye irritation. May cause severe irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue.

**Symptoms/injuries after ingestion**: May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media


**Unsuitable extinguishing media**: No unsuitable extinguishing media known. Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

**Firefighting instructions**: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting**: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**General measures**: Remove ignition sources.

**For non-emergency personnel**

**Protective equipment**: Gloves. Safety glasses.
Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Equip cleanup crew with proper protection.
Emergency procedures: Ventilate area.

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Dam up the liquid spill. Plug the leak, cut off the supply. Contain released substance, pump into suitable containers.
Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Hygiene measures: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash affected areas thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Comply with applicable regulations.
Storage conditions: Keep only in the original container in a cool, well ventilated place away from: Keep container closed when not in use.
Incompatible products: Strong bases. Strong acids.
Incompatible materials: Sources of ignition. Direct sunlight.

7.3. Specific end use(s)
Follow Label Directions.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
<table>
<thead>
<tr>
<th>FJC VACUUM PUMP OIL. (64742-52-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA ACGIH</td>
</tr>
<tr>
<td>USA ACGIH</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
Appropriate engineering controls: Local exhaust ventilation, vent hoods.
Personal protective equipment: Gloves. Safety glasses. Avoid all unnecessary exposure.

Hand protection: Wear protective gloves.
Eye protection: Chemical goggles or safety glasses.
Skin and body protection: Wear suitable protective clothing.
Respiratory protection: Wear appropriate mask.
Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colourless to yellow.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>&gt; 154.4 °C</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>&gt; 323.9 °C</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapor density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>39.86 cSt @ 40 deg C</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Explosive limits:

No data available

**9.2. Other information**

VOC content: 0 %

**SECTION 10: Stability and reactivity**

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products


**SECTION 11: Toxicological information**

11.1. Information on toxicological effects

Acute toxicity: Not classified

**FJC VACUUM PUMP OIL. (f) 64742-52-5**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>&gt; 5000 ml/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>2.18 mg/l/4h</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified
### Potential Adverse human health effects and symptoms

- **Symptoms/injuries after skin contact**: May cause slight irritation. May cause moderate irritation. Red skin.
- **Symptoms/injuries after eye contact**: May cause slight eye irritation. May cause severe irritation. Inflammation/damage of the eye tissue. Redness of the eye tissue.
- **Symptoms/injuries after ingestion**: May be harmful if swallowed and enters airways. May be fatal if swallowed and enters airways.

### SECTION 12: Ecological information

#### 12.1. Toxicity
- **Ecology - air**: TA-Luft Klasse 5.2.7.1.1/II.
- **Ecology - water**: Severe water pollutant (surface water). Ground water pollutant.

#### FJC VACUUM PUMP OIL (64742-52-5)
- **EC50 Daphnia 1**: > 1000 mg/l 48 HOURS

#### 12.2. Persistence and degradability
- **FJC VACUUM PUMP OIL (64742-52-5)**: Not established.

#### 12.3. Bioaccumulative potential
- **FJC VACUUM PUMP OIL (64742-52-5)**: Not established.

#### 12.4. Mobility in soil
- No additional information available

#### 12.5. Other adverse effects
- **Other information**: Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
- **Waste disposal recommendations**: Remove to an authorized waste collection point. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Use appropriate containment to avoid environmental contamination. Dispose in a safe manner in accordance with local/national regulations.
- **Additional information**: Hazardous waste according to Directive 2008/98/EC.
- **Ecology - waste materials**: Avoid release to the environment.

### SECTION 14: Transport information

- **US DOT (ground)**: Not regulated,
- **ICAO/IATA (air)**: Not regulated,
- **IMO/IMDG (water)**: Not regulated,
- **UN proper shipping name**: Not regulated,
Proper Shipping Name (DOT) : Not regulated

### 14.3. Additional information

<table>
<thead>
<tr>
<th>Other information</th>
<th>: No supplementary information available.</th>
</tr>
</thead>
</table>

**Overland transport**
No additional information available

**Transport by sea**
No additional information available

**Air transport**
No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

<table>
<thead>
<tr>
<th>FJC VACUUM PUMP OIL. (64742-52-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
</tr>
</tbody>
</table>

#### 15.2. International regulations

**CANADA**

<table>
<thead>
<tr>
<th>FJC VACUUM PUMP OIL. (64742-52-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the Canadian DSL (Domestic Sustances List)</td>
</tr>
</tbody>
</table>

**EU-Regulations**

<table>
<thead>
<tr>
<th>FJC VACUUM PUMP OIL. (64742-52-5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)</td>
</tr>
</tbody>
</table>

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Carc. 1B H350

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]**

Xn; R20

Full text of R-phrases: see section 16

### 15.2.2. National regulations

<table>
<thead>
<tr>
<th>FJC VACUUM PUMP OIL. (64742-52-5)</th>
</tr>
</thead>
</table>
15.3. US State regulations
No additional information available

SECTION 16: Other information

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>1 - Must be preheated before ignition can occur.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
</tbody>
</table>

HMIS III Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>2 Moderate Hazard - Temporary or minor injury may occur</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>1 Slight Hazard</td>
</tr>
<tr>
<td>Physical</td>
<td>0 Minimal Hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B</td>
</tr>
</tbody>
</table>

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet