1. IDENTIFICATION

Product Identifier
Product Name: Warren Process Oil 100

Other means of identification
N/A

SDS #
WOC-058

Recommended use of the chemical and restrictions on use
Recommended Use: Process Oil

Details of the supplier of the safety data sheet
Supplier Address
Warren Oil Company, LLC
915 E. Jefferson Ave.
West Memphis, AR 72301

Emergency Telephone Number
Company Phone Number: 1-800-428-9284
Emergency Telephone (24 hr): CHEMTREC 1-800-424-9300

2. HAZARDS IDENTIFICATION

UNITED STATES (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture
OSHA HCS 2012: Aspiration 1

Label elements
OSHA HCS 2012: DANGER

Hazard statements
May be fatal if swallowed and enters airways

Precautionary statements
Response
IF SWALLOWED: Immediately call a POISON CENTER/doctor.
DO NOT induce vomiting.

Storage/Disposal
Store locked up.
Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

HCS 2012 Other Information
Repeated exposure may cause skin dryness or cracking.
Used oil may contain harmful impurities.
Other hazards
OSHA HCS 2012


Other information

NFPA

<table>
<thead>
<tr>
<th>HAZARD</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEALTH HAZARD</td>
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<td></td>
</tr>
<tr>
<td>REACTIVITY</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPECIFIC HAZARD</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Severe</td>
<td>3-Serious</td>
<td>2-Moderate</td>
</tr>
</tbody>
</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substances</th>
<th>Substance</th>
<th>COMPOSITION</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Hydrotreated heavy paraffinic petroleum distillate</td>
<td>CAS: 64742-54-7</td>
<td></td>
<td>100</td>
</tr>
</tbody>
</table>

This highly refined mineral oil contains <3% (w/w) DMSO-extract, according to IP346. The chemical nature of the substance is highly refined mineral oil.

Mixtures

Material does not meet the criteria of a mixture.

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation
Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If signs/symptoms continue, get medical attention.

Skin
In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove clothing and wash thoroughly before use. If irritation develops and persists, get medical attention.

Eye
In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion
Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to nearest medical facility: fever greater than 101°F (38.3°C), shortness of breath, chest congestion or continued coughing or wheezing. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important symptoms and effects, both acute and delayed
Refer to Section 11 – Toxicological Information

Indication of any immediate medical attention and special treatment needed

Notes to Physician
All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
5. FIRE-FIGHTING MEASURES

Extinguishing media

LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical CO\textsubscript{2}, water spray or regular foam.

Special hazards arising from the substance or mixture

No data available.

Unusual Fire and Explosion Hazards

Hazardous Combustion Products

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide may be evolved if incomplete combustion occurs. Unidentified organic and inorganic compounds.

Advice for firefighters

Structural firefighters’ protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not walk through spilled material. Slippery when spilt. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

Keep unauthorized personnel away. Stay upwind.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Stop leak if you can do it without risk.

SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling

Use only with adequate ventilation. This material has the potential to be a static accumulator. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing mist, vapors and/or spray. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. When handling product in drums, safety footwear should be worn and proper handling equipment should be used. Properly dispose of any contaminated rags or cleaning materials in order to prevent fires.

Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed. Store in a cool, well-ventilated place. Use properly labeled and closable containers. For containers or container linings, use mild steel or high density polyethylene. Do not use PVC.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated heavy paraffinic petroleum distillate</td>
<td>TWA’s 5 mg/m³ TWA (excluding metal working fluids, inhalable particulate matter)</td>
</tr>
<tr>
<td></td>
<td>As Mineral oil, highly and severely refined</td>
</tr>
</tbody>
</table>

Exposure controls

Engineering Measures/Controls

Good general ventilation 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.

Personal Protective Equipment

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter. Select a filter suitable for the combination of organic gases and vapors [Type A/Type P boiling point >65°C (149°F)]

Eye/Face

Wear protective eyewear (goggles, face shield, or safety glasses)

Skin/Body

Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection. PVC, neoprene or nitrile rubber gloves suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, dexterity.

Environmental Exposure Controls

Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Description</td>
</tr>
<tr>
<td>Physical Form</td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Odor Threshold</td>
</tr>
<tr>
<td>Appearance/Description</td>
</tr>
<tr>
<td>General Properties</td>
</tr>
<tr>
<td>Boiling Point</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
</tr>
<tr>
<td>Density</td>
</tr>
<tr>
<td>Water Solubility</td>
</tr>
<tr>
<td>Viscosity</td>
</tr>
<tr>
<td>Evaporation rate</td>
</tr>
<tr>
<td>Volatility</td>
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<tr>
<td>Vapor Pressure</td>
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<td>Evaporation rate</td>
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<td>Flammability</td>
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<tr>
<td>Flash Point</td>
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<td>LEL</td>
</tr>
<tr>
<td>UEL</td>
</tr>
<tr>
<td>Autoignition</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
No dangerous reaction known under conditions of normal use.

Chemical stability
Stable under normal temperatures and pressures.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
Extremes of temperature and direct sunlight.

Incompatible materials
Strong oxidizing agents.

Hazardous decomposition products
Hazardous decomposition products are not expected to form during normal storage.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

<table>
<thead>
<tr>
<th>Components</th>
<th>Acute Toxicity: Ingestion/Oral-Rat LD50 • 15 g/kg; Skin-Rabbit LD50 • 5 g/kg; Multi-dose Toxicity: Inhalation-Rat TCL0 • 1000 mg/m³ 4 Week(s)-Intermittent; Lungs, Thorax, or Respiratory: Changes in lung weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated heavy paraffinic petroleum distillate (100%) 64742-54-7</td>
<td></td>
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GHS Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Classification</th>
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</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Aspiration 1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
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<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
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<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

Potential Health Effects

Inhalation
Acute (Immediate)
If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

Chronic (Delayed)
No data available

Skin
Acute (Immediate)
Not irritating to skin.

Chronic (Delayed)
No data available

Eye
Acute (Immediate)
Expected to be slightly irritating.

Chronic (Delayed)
Not data available

Ingestion
**Acute (Immediate)**

Material may be aspirated into lungs during ingestion and/or subsequent vomiting. Aspiration of this material will cause severe lung injury, chemical pneumonitis, pulmonary edema or death.

**Chronic (Delayed)**

No data available

**Carcinogenic Effects**

Product contains mineral oils of types shown to be non-carcinogenic in animal skin-painting studies. Highly refined mineral oils are not classified as carcinogenic by the International Agency for Research on Cancer (IARC).

---

### 12. ECOLOGICAL INFORMATION

**Toxicity**

Expected to be practically non toxic to algae. Expected to be practically non toxic to fish. Expected to be practically non toxic to daphnia and other aquatic invertebrates.

**Persistence and degradability**

Expected to be inherently biodegradable.

**Bioaccumulative potential**

Has the potential to bioaccumulate.

**Mobility in Soil**

Liquid under most environmental conditions. If it enters soil, it will absorb to soil particles and will not be mobile.

**Other adverse effects**

Ecotoxicological data have not been determined specifically for this product. Information given is based on knowledge of the components and the ecotoxicology of similar products.

---

### 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product waste**

Dispose of content and/or container in accordance with local regional, national, and/or international regulations.

**Packaging wastes**

Dispose of content and/or container in accordance with local regional, national, and/or international regulations.

---

### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th></th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
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<th>Environmental hazards</th>
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<td>IMO/IMDG</td>
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<td>Not Regulated</td>
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<td>IATA/ICAO</td>
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<td>Not Regulated</td>
<td>Not Regulated</td>
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</table>

---

### 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications • Acute**

---
State Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated heavy paraffinic petroleum distillate</td>
<td>64742-54-7</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Australia AICS</th>
<th>Canada DSL</th>
<th>China</th>
<th>Japan ENCS</th>
<th>Korea KECL</th>
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<tbody>
<tr>
<td>Hydrotreated heavy paraffinic petroleum distillate</td>
<td>64742-54-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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Inventory (Continued)

<table>
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<tr>
<th>Component</th>
<th>CAS</th>
<th>New Zealand</th>
<th>Philippines PICCS</th>
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<td>Hydrotreated heavy paraffinic petroleum distillate</td>
<td>64742-54-7</td>
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<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

United States

Labor


*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

Environment

U.S. – CAA (Clean Air Act) – 1990 Hazardous Air Pollutants

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances EPCRA RQs

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances TPQs

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

U.S. – CERCLA/SARA – Section 313 – Emission Reporting

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

U.S. – CERCLA/SARA – Section 313 – PBT Chemical Listing

*Hydrotreated heavy paraffinic petroleum distillate* 64742-54-7 Not listed

Other Information

California Prop 65 – This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. OTHER INFORMATION

Issue Date: 1-Aug-2017
Revision Date: 25-Oct-2017
Revision Note: Chemical change

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