1. IDENTIFICATION

Product Identifier
Product Name  Warren Premium Cotton Picker Spindle Grease
Other means of identification
SDS #  WOC-048

Recommended use of the chemical and restrictions on use
Recommended Use  Lubricant

Details of the supplier of the safety data sheet
Supplier Address  Warren Oil Company
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 (North America) 1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Appearance  Green semi-liquid
Physical State  Semi-fluid
Odor  Mild petroleum

Classification
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>64742-54-7</td>
<td>70-80</td>
</tr>
<tr>
<td>Severely Hydrotreated Heavy Naphthenic Petroleum Oil</td>
<td>64742-52-5</td>
<td>10-20</td>
</tr>
<tr>
<td>Residual oils (petroleum), hydrotreated</td>
<td>64742-57-0</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>68649-42-3</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact  Check for and remove contact lenses.  Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids.  Seek medical attention if excessive tearing, redness, or pain persists.
Skin Contact  
If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Clean or discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.

Inhalation  
Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.

Ingestion  
DO NOT induce vomiting unless directed to by a physician. Rinse out mouth with water. Never give anything by mouth to a person who is not fully conscious. Allow small quantities to pass through the digestive system. If large amounts are swallowed or irritation or discomfort, seek medical attention immediately.

Most important symptoms and effects

Symptoms  
No significant adverse health effects are expected to occur upon short term exposure at ambient temperatures. At elevated temperatures, product vapor may cause respiratory tract irritation. Repeated or prolonged overexposure to product mists can result in respiratory tract inflammation and an increased risk of infection. This product can cause transient mild eye irritation with short-term contact with liquid sprays or mists. Symptoms include stinging, watering, redness, and swelling. This material can cause mild skin irritation from prolonged or repeated skin contact. Injection under the skin can cause inflammation and swelling. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention. Skin contact with hot material may result in severe burns. This material can cause a laxative effect. If swallowed in large quantities, this material can obstruct the intestine.

Indication of any immediate medical attention and special treatment needed

Notes to Physician  
Skin: In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal. Ingestion: Check for possible bowel obstruction with ingestion of large quantities of material.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media  
Use dry chemical, foam, carbon dioxide or water fog.

Unsuitable Extinguishing Media  
Not determined.

Specific Hazards Arising from the Chemical  
Water or foam may cause frothing. Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.

Hazardous Combustion Products  
Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur, phosphorus, zinc and/or zinc.

Protective equipment and precautions for firefighters  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight the fire from a safe distance in a protected location. Open any masses with a water stream to prevent reignition due to smoldering. Cool surface with water fog. Molten material can form flaming droplets if ignited. Use of water on product above 100°C (212°F) can cause product to expand with explosive force. Do not allow liquid runoff to enter sewers or public waters.
6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material.

Environmental Precautions
See Section 12 for additional Ecological Information. Prevent entry into waterways or sewers.

Methods and material for containment and cleaning up

Methods for Containment
Stop leak if you can do so without risk.

Methods for Clean-Up
For small spills, absorb or cover with dry earth, sand or other inert non-combustible absorbent material and place into waste containers for lateral disposal. Contain large spills to maximize product recovery or disposal. In urban area, clean up spill as soon as possible. In natural environments, seek clean up advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions
Avoid water contamination and elevated temperatures to minimize product degradation. Empty containers may contain product residue that can ignite with explosive force. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode. Keep container tightly closed. Store in a cool, dry, well-ventilated area. Store only in approved containers. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing product in direct sunlight for extended periods of time.

Incompatible Materials
Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
</table>
| Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5 | TWA: 5 mg/m³ (oil mist)  
STEEL: 10 mg/m³ (oil mist) | TWA: 5mg/m³ (oil mist)  
STEL: none estab. | TWA: none estab.  
STEL: none estab. |

Appropriate engineering controls

Engineering Controls
Ventilation controls are not normally required under anticipated conditions of use. Provide exhaust ventilation or other engineering controls if airborne mists or vapors concentrations exceed recommended occupational exposure limits listed. An eye wash station and safety shower should be located near work-station.
Individual protection measures, such as personal protective equipment

**Eye/Face Protection**
Safety glasses equipped with side shields are recommended as a minimum protection in industrial settings. Wear goggles if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.

**Skin and Body Protection**
Use gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures. Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.

**Respiratory Protection**
The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used.

**General Hygiene Considerations**
Handle in accordance with good industrial hygiene and safety practice.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical State</strong></td>
<td>Semi-fluid</td>
<td></td>
</tr>
<tr>
<td><strong>Appearance</strong></td>
<td>Green semi-fluid</td>
<td></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Green</td>
<td></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Mild petroleum</td>
<td></td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Boiling Point/Boiling Range</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>&gt;150 °C / &gt;302 °F</td>
<td>Estimated</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Flammability (Solid, Gas)</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Upper Flammability Limits</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Lower Flammability Limit</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>&lt;0.001 kPa (&lt;0.01 mmHg)</td>
<td>@ 20°C (68°F)</td>
</tr>
<tr>
<td><strong>Vapor Density</strong></td>
<td>&gt;10</td>
<td>(Air=1)</td>
</tr>
<tr>
<td><strong>Specific Gravity</strong></td>
<td>0.90</td>
<td>(Water=1)</td>
</tr>
<tr>
<td><strong>Water Solubility</strong></td>
<td>Negligible solubility in cold water</td>
<td></td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Partition Coefficient</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Auto-ignition Temperature</strong></td>
<td>No available</td>
<td></td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Kinematic Viscosity</strong></td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td><strong>Dynamic Viscosity</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Explosive Properties</strong></td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td><strong>Oxidizing Properties</strong></td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>

---

### 10. STABILITY AND REACTIVITY
Reactivity
Not reactive under normal conditions.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Not expected to occur.

Conditions to Avoid
Keep away from extreme heat, sparks, open flame, and strongly oxidizing conditions.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur, phosphorus, zinc and/or nitrogen.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact
Avoid contact with eyes.

Skin Contact
Avoid contact with skin.

Inhalation
Do not inhale.

Ingestion
Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Castor Oil – (flake or solid) 8001-78-3</td>
<td>&gt; 10 g/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Lithium Hydroxide Solution 1310-66-3</td>
<td>= 120 mg/kg (Rat)</td>
<td>-</td>
<td>= 0.96 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

Symptoms
Please see Section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7</td>
<td></td>
<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Severely Hydrotreated Heavy Naphthenic Petroleum Oil 64742-52-5</td>
<td></td>
<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Hydrogenated Castor Oil – (flake or solid) 8001-78-3</td>
<td></td>
<td>10000: 96 h Brachydianio rerio mg/L LC50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Alkyl Dithiophosphate 68649-42-3</td>
<td></td>
<td>1.0 – 5.0: 96 h Pimephales promelas mg/L LC50 static 10.0 – 35.0: 96 h Pimephales promelas mg/L LC50 semi-static</td>
<td>1 – 1.5: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

### Persistence/Degradability
Not determined.

### Bioaccumulation
Not determined.

### Mobility
Not determined

### Other Adverse Effects
Not determined

**13. DISPOSAL CONSIDERATIONS**

**Waste Treatment Methods**

**Disposal of Wastes**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**
Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate 68649-42-3</td>
<td>Toxic</td>
</tr>
</tbody>
</table>

**14. TRANSPORT INFORMATION**

**Note**
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**
Not regulated

**IATA**
Not regulated
15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy paraffinic</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Severely Hydrotreated Heavy Naphthenic Petroleum Oil</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Residual oils (petroleum), hydrotreated</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korean Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances
- AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS NO</th>
<th>Weight-%</th>
<th>SARA 313 – Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate – 68649-42-3</td>
<td>68649-42-3</td>
<td>&lt;1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA – Reportable Quantities</th>
<th>CWA – Toxic Pollutants</th>
<th>CWA – Priority Pollutants</th>
<th>CWA – Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc Alkyl Dithiophosphate</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Issue Date: 11-Jun-2014
Revision Date: 13-Jul-2015
Revision Note: New format

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