1. IDENTIFICATION

Product Identifier
Product Name: Mineral Oil

Other Means of Identification
Product Code: 232500

Recommended Use of the Chemical and Restrictions on Use
Recommended Use: Lubricant. For industrial use.

Details of the Supplier of the Safety Data Sheet
Midlab, Inc.
140 Private Brand Way
Athens, TN 37303

Emergency Telephone Number
Company Phone Number: Phone: 1-423-337-3180
Emergency Telephone (24 hr): INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Colorless
Physical State: Liquid
Odor: None

Classification
Aspiration Hazard: Category 1

Signal Word
Danger

Hazard Statements
May be fatal if swallowed and enters airways.

Precautionary Statements - Prevention
No other specific measures identified.

Precautionary Statements - Response
IF SWALLOWED: do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Precautionary Statements - Storage
Store locked up.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil</td>
<td>8042-47-5</td>
<td>60-100</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
If irritation or redness develops, move victim away from exposure. Flush eyes with clean water for at least 15 minutes. If symptoms persist, seek medical attention.

Skin Contact
Wash with mild soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If irritation or redness develops and persists, seek medical attention.

Inhalation
First aid not normally required. If breathing difficulties develop, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention.

Ingestion
Ingestion can cause mild irritation to the digestive tract or cause a laxative effect. If aspirated into the lungs, this material can cause severe lung damage or death. Rinse mouth. Drink plenty of water. Do NOT induce vomiting. If any discomfort persists, obtain medical attention.

Most Important Symptoms and Effects

Symptoms
May cause slight irritation, tears and a burning sensation if in eyes. May cause a mild skin irritation, potentially causing reddening, itching or inflammation. Inhalation may cause may cause respiratory tract irritation. Ingestion may cause nausea, vomiting and diarrhea. Aspiration into lungs may cause chemical pneumonia and lung damage.

Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician
Treat symptomatically. If ingested, this material represents a significant aspiration and chemical pneumonitis hazard. Vomiting is not recommended.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Dry chemicals, carbon dioxide, foam or water spray.

Unsuitable Extinguishing Media
Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical
Elevated temperature can lead to the formation of irritating fumes and vapors.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Use personal protective equipment as required.

Environmental Precautions
Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

Methods for Containment
Prevent further leakage or spillage if safe to do so. Use absorbent materials such as sand, earth, or vermiculite on land spills. Use absorbent booms or skimming devices for water spills.

Methods for Clean-Up
Collect spillage. Collect in a clean, dry waste container for disposal.

7. HANDLING AND STORAGE
Precautions for Safe Handling

Advice on Safe Handling  Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with eyes. Observe good industrial hygiene practices. Keep away from ignition sources. Be cautious of any drips or spills as product is extremely slippery.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions  Keep containers tightly closed in a dry, cool and well-ventilated place away from strong sunlight and heat or flames. Keep locked up and out of reach of children. Keep from freezing.

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>
<tbody>
<tr>
<td>Mineral Oil 8042-47-5</td>
<td>TWA: 5 mg/m</td>
<td>TWA: 5 mg/m</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL: 10 mg/m (15 minutes)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls

Engineering Controls  Ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection  Wear glasses with side shields or goggles in case of splashing.

Skin and Body Protection  Wear protective gloves and long sleeve clothing to minimize contact.

Respiratory Protection  No protection is ordinarily required under normal conditions of use and with adequate ventilation. If vapor or mist is generated by heating, spraying, etc., wear an air purifying respirator with mist filter.

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

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>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
<td>Odor None</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td>Odor Threshold</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>&lt; -12°C / &lt;10°F</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 177°C /350°F</td>
<td>Cleveland Open Cup</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt; 0.1 kPa @ 20°C</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.85</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Log POW: &gt;6</td>
<td></td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>
**10. STABILITY AND REACTIVITY**

**Reactivity**
Not chemically reactive.

**Chemical Stability**
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**
None under normal processing.

**Conditions to Avoid**
Keep out of reach of children. Keep from freezing. Keep away from heat, flame and other potential ignition sources.

**Incompatible Materials**
Strong oxidizers.

**Hazardous Decomposition Products**
Thermal decomposition may result in carbon dioxide, carbon monoxide, smoke, fumes.

**11. TOXICOLOGICAL INFORMATION**

**Information on Likely Routes of Exposure**

**Product Information**

**Eye Contact**
Avoid contact with eyes.

**Skin Contact**
Avoid contact with skin.

**Inhalation**
Avoid breathing vapors or mists.

**Ingestion**
Do not taste or swallow.

**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>Mineral Oil 8042-47-5</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>&gt; 5 mg/kg (Rat)</td>
</tr>
</tbody>
</table>

**Information on Physical, Chemical and Toxicological Effects**

**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**
Not classifiable as a human carcinogen.

**Numerical Measures of Toxicity**
Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**
This product is not toxic to fish but may coat gill structures resulting in suffocation.

<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>Mineral Oil 8042-47-5</td>
<td>EC50 &gt; 1000 mg/L 96hr</td>
<td>LC50 &gt; 1000 mg/L</td>
<td>-</td>
<td>EC50 &gt; 100 mg/L 48hr (Daphnia magna)</td>
</tr>
</tbody>
</table>
Persistence/Degradability
Not readily biodegradable.

Bioaccumulation
May bio-accumulate in aquatic organisms.

Mobility
Partition coefficient \( n\text{-octanol/water} > 4 \log K_{ow} \). May partition into air, soil and water.

Other Adverse Effects
No other adverse effects expected.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

<table>
<thead>
<tr>
<th>Disposal of Wastes</th>
<th>Contaminated Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disposal should be in accordance with applicable regional, national and local laws and regulations.</td>
<td>Disposal should be in accordance with applicable regional, national and local laws and regulations.</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT
Not regulated (Note: The provisions of 49 CFR, Part 130 apply for shipments over 3500 bulk gallons, requiring carrier emergency plans for spills and accidents).

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
Canada – Domestic Substances List (DSL) All ingredients are listed or exempt.
TSCA (Toxic Substances Control Act) All ingredients are listed or exempt.

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

CERCLA
None listed.

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute Health Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

SARA 313
This material does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the reporting requirements of SARA (40 CFR 372).

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Component</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>None Listed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>State List</th>
</tr>
</thead>
<tbody>
<tr>
<td>None Listed</td>
<td></td>
</tr>
</tbody>
</table>
AZ - Arizona Ambient Air Quality Guidelines
CT – Connecticut Hazardous Air Pollutants
CA – California Director's List of Hazardous Substances
CAP65 – California Prop65
FL – Florida Substances List
ID – Idaho Non-Carcinogen Toxic Air Pollutants
IL – Illinois Toxic Air Contaminant - Carcinogenic
MA – Massachusetts Right to Know List
MN – Minnesota Hazardous Substances List
NJ – New Jersey Right to Know List
PA – Pennsylvania Right to Know List
RI – Rhode Island Hazardous Substances List

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>Not determined</td>
<td>Not determined</td>
<td>Not determined</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: 13-Jul-2016
Revision Date: 13-Jul-2016
Revision Note: Version 1.0

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.

Keep Out of Reach of Children. For Industrial and Institutional Use Only.

*Denotes changes from last version.

End of Safety Data Sheet