Mineral Oil USP MSDS
Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

<table>
<thead>
<tr>
<th>Common Name/Trade Name</th>
<th>Mineral Oil, USP</th>
<th>Catalog Number(s)</th>
<th>Catalog Number(s)</th>
<th>CAS#</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
<td>M500</td>
<td>8012-95-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial Name(s)</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Synonym</td>
<td>Mineral Oil, White, Heavy</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Family</td>
<td>Not available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chemical Formula</td>
<td>unspecied</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Supplier</td>
<td>SPECTRUM LABORATORY PRODUCTS INC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS #</th>
<th>TWA (mg/m³)</th>
<th>STEL (mg/m³)</th>
<th>CEIL (mg/m³)</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral Oil, USP</td>
<td>8012-95-1</td>
<td>5</td>
<td>10</td>
<td>100</td>
<td></td>
</tr>
</tbody>
</table>

| Toxicological Data on Ingredients | Mineral Oil, USP: | ORAL (LD50): | Acute: 22000 mg/kg [Mouse]. >5000 mg/kg [Rat]. |

Section 3. Hazards Identification

<table>
<thead>
<tr>
<th>Potential Acute Health Effects</th>
<th>Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-hazardous in case of inhalation.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potential Chronic Health Effects</td>
<td>CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, lungs, liver, upper respiratory tract, skin. Repeated or prolonged exposure to the substance can produce target organs damage.</td>
</tr>
</tbody>
</table>

Continued on Next Page
## Section 4. First Aid Measures

<table>
<thead>
<tr>
<th>Eye Contact</th>
<th>Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.</td>
</tr>
<tr>
<td>Serious Skin Contact</td>
<td>Not available.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.</td>
</tr>
<tr>
<td>Serious Inhalation</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 5. Fire and Explosion Data

<table>
<thead>
<tr>
<th>Flammability of the Product</th>
<th>May be combustible at high temperature.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto-Ignition Temperature</td>
<td>260-371.1°C (500-700 °F)</td>
</tr>
<tr>
<td>Flash Points</td>
<td>OPEN CUP: 193°C (379.4°F); &gt; 115 °C.</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

## Section 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Small Spill</th>
<th>Absorb with an inert material and put the spilled material in an appropriate waste disposal.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Spill</td>
<td>Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.</td>
</tr>
</tbody>
</table>

## Section 7. Handling and Storage

<table>
<thead>
<tr>
<th>Precautions</th>
<th>Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe gas/fumes/vapor/spray. Keep away from incompatibles such as oxidizing agents.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Keep container tightly closed. Keep container in a cool, well-ventilated area. Sensitive to light. Store in light-resistant containers.</td>
</tr>
</tbody>
</table>

---

Continued on Next Page
Section 8. Exposure Controls/Personal Protection

Engineering Controls
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection
Safety glasses or splash goggles. Synthetic apron. Gloves (impervious). Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If material is misted and elevated airborne concentrations above applicable workplace exposure levels are anticipated, use a NIOSH-approved air purifying respirator with a high efficiency particulate filter (R95 or P95). The respirator with particulate filter may be used in conjunction with an organic vapor cartridge. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29CFR 1910.134).

Personal Protection in Case of a Large Spill
Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits
Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

| Physical state and appearance | Liquid. (Oily liquid.) | Odor | Odorless. |
| Mol. Weight | Not available. | Taste | Not available. |
| pH (1% soln/water) | Not applicable. | Color | Clear Colorless. |
| Boiling Point | >304.4°C (580°F); 360 °C(680 °F) |  |
| Melting Point | Not available. |  |
| Critical Temperature | Not available. |  |
| Specific Gravity | 0.8 - 0.9 (Water = 1) |  |
| Vapor Pressure | <0 kPa (@ 20°C) |  |
| Vapor Density | >1 (Air = 1) |  |
| Volatility | Not available. |  |
| Odor Threshold | Not available. |  |
| Water/Oil Dist. Coeff. | The product is more soluble in oil; log(oil/water) = > 6.0 |  |
| Ionicity (in Water) | Not available. |  |
| Dispersion Properties | Not available. |  |
| Solubility | Insoluble in cold water. Soluble in hydrocarbons. |  |

Section 10. Stability and Reactivity Data

| Stability | The product is stable. |
| Instability Temperature | Not available. |
| Conditions of Instability | Excess heat, incompatibles, light |
| Incompatibility with various substances | Reactive with oxidizing agents. |
| Corrosivity | Non-corrosive in presence of glass. |

Continued on Next Page
Section 11. Toxicological Information

Routes of Entry
Absorbed through skin. Eye contact.

Toxicity to Animals
Acute oral toxicity (LD50): >5000 mg/kg [Rat].

Chronic Effects on Humans
CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC.
May cause damage to the following organs: blood, lungs, liver, upper respiratory tract, skin.

Other Toxic Effects on Humans
Slightly hazardous in case of skin contact (irritant), of ingestion.
Non-hazardous in case of inhalation.

Special Remarks on Toxicity to Animals
Not available.

Special Remarks on Chronic Effects on Humans
Highly refined mineral oils are not classified as human carcinogens. However, related forms (untreated and mildly-treated oils used in metal machining, mule spinning and jute processing) are listed as human carcinogens by both IARC (group 1) and NTP

Potential Health Effects:
Skin: This product is not expected to cause any skin irritation upon direct single or repeated and prolonged contact. However, similar chemical composition products applied to the skin of lab animals resulted in minimal to slight dermal irritation.
Eyes: May cause mild to moderate eye irritation.
Inhalation: May cause respiratory tract irritation with coughing and shortness of breath. This product has a low vapor pressure and is not expected to present an inhalation hazard during usual industrial handling and at ambient conditions unless it is aerosolized or misted. Caution should be taken to prevent aerosolization or misting. If aspiration occurs upon inhalation of mist or aerosol, it may lead to chemical or lipid pneumonitis, aspiration or lipid pneumonia, and pulmonary edema which may be fatal. It may also lead to pulmonary fibrosis. Signs of lung involvement include increased respiratory rate, increased heart rate, and bluish discoloration of the skin. Coughing, choking and gagging are often noted at the time of aspiration. Inhalation of high concentrations may also affect behavior (somnolence, lassitude, weakness) and cause loss of appetite.
Ingestion: Ingestion is relatively non-toxic unless aspiration occurs. It has laxative properties and may cause gastrointestinal tract discomfort, abdominal cramps, vomiting and diarrhea. Ingestion of large doses may also cause thirst and affect the blood (changes in serum composition)
Chronic Potential Health Effects:
Skin: Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated absorption may affect the liver, and urinary system (bladder)
Inhalation: Prolonged or repeated inhalation may affect respiration and may cause loss of appetite and weight loss.
Ingestion: Prolonged or repeated ingestion may affect the liver and blood (changes in white blood cell count) and may impair appetite and cause weight loss. Prolonged or repeated ingestion may result in lipid granuloma (granulomatous lipid granules). These are low-grade, chronic localized inflammatory reactions of the tissues to the presence of exogenous oil and are not fatal.

Section 12. Ecological Information

Ecotoxicity
Not available.

BOD5 and COD
Not available.

Products of Biodegradation
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation
The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation
Not available.

Continued on Next Page
Section 13. Disposal Considerations

Waste Disposal
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. Transport Information

DOT Classification
Not a DOT controlled material (United States).

Identification
Not applicable.

Special Provisions for Transport
Not applicable.

DOT (Pictograms)

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations
TSCA 8(b) inventory: Mineral Oil, USP

California Proposition 65
Warnings
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.
California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

Other Regulations
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 232-384-2).
Canada: Listed on Canadian Domestic Substance List (DSL).
China: Listed on National Inventory.
Japan: Not listed on National Inventory (ENCS).
Korea: Listed on National Inventory (KECI).
Philippines: Listed on National Inventory (PICCS).
Australia: Listed on AICS.

Other Classifications
WHMIS (Canada) Not controlled under WHMIS (Canada).
DSCL (EEC) This product is not classified according to the EU regulations. Not applicable.

HMIS (U.S.A.)
Health Hazard 1
Fire Hazard 1
Reactivity 0
Personal Protection C

National Fire Protection Association (U.S.A.)

WHMIS (Canada) (Pictograms)

DSCL (Europe) (Pictograms)

Continued on Next Page
Mineral Oil, USP

TDG (Canada) (Pictograms)

ADR (Europe) (Pictograms)

Protective Equipment

Gloves (impervious).

Synthetic apron.

Not applicable.

Safety glasses.

Major Uses: Lubricant in manufacturing of food products; as a vehicle to dissolve or suspend medicinal agents; in fungicides; in insecticides; as an emollient in cosmetics

NOT AVAILABLE.

CALL (310) 516-8000

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user’s responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.

Section 16. Other Information

MSDS Code M4080

References Not available.

Other Special Considerations

Major Uses: Lubricant in manufacturing of food products; as a vehicle to dissolve or suspend medicinal agents; in fungicides; in insecticides; as an emollient in cosmetics

Validated by Sonia Owen on 8/31/2011.

Verified by Sonia Owen.

Printed 8/31/2011.

CALL (310) 516-8000

Notice to Reader

Contact Distributor

www.qualityexcipients.com
info@qualityexcipients.com

QUALITY excipients

PLANETSCIENCE WHERE SCIENCE IS BUSINESS