## MSDS

**HYDRAULIC FLUID OD-15-10**

**(1-L)**

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Micromeritics Material Safety Data Sheet

Title: HYDRAULIC FLUID OD-15-10(1-L)
Date of Preparation: 06/25/04
Revision: C

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: HYDRAULIC FLUID OD-15-10
Chemical Formula: Blend
CAS Number: n/a
Other Designations:
General Use:
Supplier: Micromeritics Instrument Corp.
1 Micromeritics Dr.
Norcross, GA 30093-1877 USA
Phone: (770) 662-3620
Fax: (770) 662-3696

Manufacturer: Sun Company, Inc.
Ten Penn Center 1801 Market St.
Philadelphia, PA 19103-1699
(770) 662-3678

Section 2 - Composition / Information on Ingredients

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<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>% vol</th>
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<tr>
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<td>64741-88-4</td>
<td>90-100</td>
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<tr>
<td>Zinc dialkyl Dithiophosphats</td>
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<tr>
<td>Butylated Phenol</td>
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<tr>
<td>Calcium Sulfonate</td>
<td>61789-86-4</td>
<td>0-1</td>
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<tr>
<td>Acrylic Copolymer</td>
<td>68171-46-0</td>
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<tr>
<td>2-Ethylhexanol</td>
<td>104-76-7</td>
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Trace Impurities:

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<tr>
<th>Ingredient</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
<th>NIOSH</th>
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<tr>
<td>Severely solvent refined heavy paraffinic petroleum oil</td>
<td>5mg/m³</td>
<td>-</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Zinc dialkyl Dithiophosphats</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Butylated Phenol</td>
<td>n/a</td>
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<td>n/a</td>
<td>n/a</td>
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<td>n/a</td>
</tr>
<tr>
<td>2-Ethylhexanol</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>Additional exposure limits: Oil Mist</td>
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<td>5mg/m³</td>
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<td>-</td>
</tr>
</tbody>
</table>

Section 3 - Hazards Identification

Emergency Overview

Potential Health Effects

Primary Entry Routes: Skin
Effects of Overexposure:

Inhalation: No effects expected
Eye: Contact with the eye may cause minimal irritation.
Skin: Practically non-toxic if absorbed (LD50 greater than 2000 mg/kg). May cause mild irritation with prolonged or repeated contact.
Ingestion: Practically non-toxic (LD50 > 15g/Kg).

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Section 4 - First Aid Measures

**Inhalation:** Move person to fresh air.
**Eye:** Flush with water.
**Skin:** Wash with soap and water until no odor remains. Wash clothing before reuse.
**Swallowing:** Practically non-toxic. Induction of vomiting not required. Obtain emergency medical attention. Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone.

**Other Information:** Warning!! High pressure injection of oil through the skin is a medical emergency. There may be no sign of injury and no initial pain. This oil must be removed completely by a physician. Failure to obtain immediate treatment has resulted in loss of a finger, hand or arm.

**WHMIS Classification:** Not controlled.

Section 5 - Fire-Fighting Measures

**Flash Point:** 380°F (192°C)
**Flash Point Method:** COC
**Extinguishing Media:** Water spray, regular foam, dry chemical, carbon dioxide.
**Unusual Fire or Explosion Hazards:** n/a
**Fire-Fighting Procedures:** Wear self-contained breathing apparatus. Wear structural firefighters protective clothing.

Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** n/a

Section 7 - Handling and Storage

**Handling/ Storage Requirements:** n/a

Section 8 - Exposure Controls / Personal Protection

**N/A**

Section 9 - Physical and Chemical Properties

**Appearance and Odor:** clear fluid, little odor
**Odor Threshold:** n/a
**Vapor Pressure:** <0.0001 (mm Hg at 20 °C)
**Vapor Density (Air=1):** 10 +
**Formula Weight:** n/a
**Density:** n/a
**Specific Gravity (H₂O=1, at 4 °C):** 0.87
**Water Solubility:** nil
**Other Solubilities:** n/a
**Boiling Point:** n/a
**Melting Point:** n/a
**Viscosity:** 165 sus @ 100°F. 32.0 CST @ 40 °C.
**% Volatile:** n/a
**Evaporation Rate:** 1000X slower (ethyl ether = 1)

Section 10 - Stability and Reactivity

**Stability:** HYDRAULIC FLUID OD-15-10 is stable.
**Polymerization:** Hazardous polymerization will not occur.
**Chemical Incompatibilities:** Strong oxidizers.
**Conditions to Avoid:** n/a
**Hazardous Decomposition Products:** Combustion will produce carbon monoxide, oxides of sulfur and asphyxiants.
Section 11 - Toxicological Information

n/a

Section 12 - Ecological Information

Ecotoxicity: n/a

Section 13 - Disposal Considerations

Disposal: n/a

Section 14 - Transport Information

n/a

Section 15 - Regulatory Information

n/a

Section 16 - Other Information

Prepared By: C. Bills
Revision Notes:

Disclaimer: