



**Micromeritics Instrument Corp. and Micromeritics Analytical Services**  
 www.micromeritics.com      www.particletesting.com  
 Surface Area - Porosity - Density - Particle Size, Shape & Count - Catalytic Activity - Surface Energy - Analytical Services

## MSDS Cover Sheet



INSTRUMENT CORPORATION  
 ONE MICROMERITICS DR.  
 NORCROSS, GA 30093-1877 U.S.A.

### HYDRAULIC FLUID OD-15-200 (5-G)

						DWN BY	J. Pittman
						ENGR	J. Mocny
						ENGR SIG	P. Hendrix
B	Revision	JAP	06/23/04		040256	HR SIG	J. Mocny
A	Revision	MD	03/04/03	JM	030134	QA SIG	A. Dovin
-	Formal Release	ADG	9/6/00	JP	000120D	ES SIG	K. Massengill
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE	NUMBER	PAGE
<b>A</b>	<b>004/16144/00MSDS</b>	X of 4

# Micromeritics Material Safety Data Sheet

Title : HYDRAULIC FLUID OD-15-200 (5-G)  
Date of Preparation :06/23/04

MSDS No. : 004/16144/00MSDS  
Revision : B

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Hydraulic Fluid OD-15-200

**Chemical Formula:** Not Applicable

**CAS Number:** Not Applicable

**Other Designations:** Not Applicable

**General Use:** Hydraulic Fluid

**Supplier:** Micromeritics Instrument Corp.  
1 Micromeritics Dr.  
Norcross, GA 30093-1877 USA

**Contact:** Human Resources  
**Phone:** (770) 662-3620  
**Fax:** (770) 662-3696

**Manufacturer:**

Micromeritics Instrument Corp., 1 Micromeritics Dr, Norcross, GA 30093-1877 USA, Phone: (770) 662-3678  
Sun Company, Inc., Ten Penn Center, 1801 Market St., Philadelphia, PA 19103-1699

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt.
Severely Solvent Refined Heavy Paraffinic Petroleum Oil	64741-88-4	90.00 - 100.00
Zinc Dialkyl Dithiophosphate	68649-42-3	1.00
Calcium Sulfonate	61789-86-4	1.00
Butylated Phenol	Not Applicable	1.00
Acrylic Copolymer	68171-46-0	1.00
2-Ethylhexanol	104-76-7	1.00

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Hydraulic Oil	5 mg/m <sup>3</sup>	none estab.	5 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.
Oil Mist	5 mg/m <sup>3</sup>	none estab.	5 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.

### Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

HMIS	
H	1
F	1
R	0
PPE†	
†Sec. 8	

#### Potential Health Effects

**Primary Entry Routes:** Skin

**Target Organs:** Not Applicable

**Acute Effects**

**Inhalation:** No effects expected.

**Eye:** Contact with the eye may cause minimal irritation.

**Skin:** Practically non-toxic if absorbed (LD50 greater than 2000mg/Kg). May cause mild irritation with prolonged or repeated contact.

**Ingestion:** Practically non-toxic. (LD50> 15g/Kg)

**Carcinogenicity:** Not Applicable

**Medical Conditions Aggravated by Long-Term Exposure:** Not Applicable

**Chronic Effects:** Not Applicable

### Section 4 - First Aid Measures

**Inhalation:** Move person to fresh air.

**Eye Contact:** Flush with water.

**Skin Contact:** Wash with soap and water until no odor remains. Wash clothing before reuse.

**Ingestion:** 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.

**Note to Physicians:** Not Applicable

**Special Precautions/Procedures: 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 minimum COC °: (192 min. COC °C)

**Flash Point Method:** COC

**Burning Rate:** Not Applicable

**Autoignition Temperature:** Not Applicable

**LEL:** Not Applicable

**UEL:** Not Applicable

**Flammability Classification:** Not Applicable

**Extinguishing Media:** Water spray, regular foam, dry chemical, carbon dioxide.

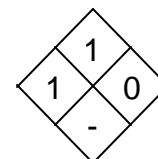
**Unusual Fire or Explosion Hazards:** Not Applicable

**Hazardous Combustion Products:** Not Applicable

**Fire-Fighting Instructions:** Wear self-contained breathing apparatus. Wear structural firefighters protective clothing.

**Fire-Fighting Equipment:** Not Applicable

**NFPA**



### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Not Applicable

**Small Spills:** Not Applicable

**Large Spills:** Not Applicable

**Containment:** Not Applicable

**Cleanup:** Not Applicable

**Regulatory Requirements:** Not Applicable

### Section 7 - Handling and Storage

**Handling Precautions:** Not Applicable  
**Storage Requirements:** Not Applicable  
**Regulatory Requirements:** Not Applicable

### Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Not Applicable  
**Ventilation:** Not Applicable  
**Administrative Controls:** Not Applicable  
**Respiratory Protection:** Not Applicable  
**Protective Clothing/Equipment:** Not Applicable  
**Safety Stations:** Not Applicable  
**Contaminated Equipment:**  
**Comments:** Not Applicable

### Section 9 - Physical and Chemical Properties

<b>Physical State:</b> Not Applicable	<b>Water Solubility:</b> NIL (% by volume)
<b>Appearance and Odor:</b> Clear fluid, little odor.	<b>Other Solubilities:</b> Not Applicable
<b>Odor Threshold:</b> Not Applicable	<b>Boiling Point:</b> Not Applicable
<b>Vapor Pressure:</b> <0.0001 mmHg at 20°C	<b>Freezing/Melting Point:</b> Not Applicable
<b>Vapor Density (Air=1):</b> 10+	<b>Viscosity:</b> 165 SUS @ 100°F 32.0 CST @ 40°C
<b>Formula Weight:</b> Not Applicable	<b>Refractive Index:</b> Not Applicable
<b>Density:</b> Not Applicable	<b>Surface Tension:</b> Not Applicable
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.87	<b>% Volatile:</b> Not Applicable
<b>pH:</b> Not Applicable	<b>Evaporation Rate:</b> 1000X slower (Ethyl Ether =1)

### Section 10 - Stability and Reactivity

**Stability:** Stable  
**Polymerization:** Will not occur  
**Chemical Incompatibilities:** Strong Oxidizers  
**Conditions to Avoid:** Not Applicable  
**Hazardous Decomposition Products:** Combustion produces carbon monoxide, oxides of sulfur and asphyxiants.

### Section 11- Toxicological Information

#### Toxicity Data:

<b>Eye Effects:</b> Not Applicable	<b>Acute Inhalation Effects:</b> Not Applicable
<b>Skin Effects:</b> Not Applicable	<b>Acute Oral Effects:</b> Not Applicable
	<b>Chronic Effects:</b> Not Applicable
	<b>Carcinogenicity:</b> Not Applicable
	<b>Mutagenicity:</b> Not Applicable
	<b>Teratogenicity:</b> Not Applicable

### Section 12 - Ecological Information

**Ecotoxicity:** Not Applicable  
**Environmental Fate:** Not Applicable  
**Environmental Degradation:** Not Applicable

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**Soil Absorption/Mobility:** Not Applicable

### Section 13 - Disposal Considerations

**Disposal:** Not Applicable  
**Disposal Regulatory Requirements:** Not Applicable  
**Container Cleaning and Disposal:** Not Applicable

### Section 14 - Transport Information

#### DOT Transportation Data (49 CFR 172.101):

<b>Shipping Name:</b> Not Applicable	<b>Packaging Authorizations</b>	<b>Quantity Limitations</b>
<b>Shipping Symbols:</b> Not Applicable	<b>a) Exceptions:</b> Not Applicable	<b>a) Passenger, Aircraft, or Railcar:</b> Not Applicable
<b>Hazard Class:</b> Not Applicable	<b>b) Non-bulk Packaging:</b> Not Applicable	<b>b) Cargo Aircraft Only:</b> Not Applicable
<b>ID No.:</b> Not Applicable	<b>c) Bulk Packaging:</b> Not Applicable	<b>Vessel Stowage Requirements</b>
<b>Packing Group:</b> Not Applicable		<b>a) Vessel Stowage:</b> Not Applicable
<b>Label:</b> Not Applicable		<b>b) Other:</b> Not Applicable
<b>Special Provisions (172.102):</b> Not Applicable		

### Section 15 - Regulatory Information

**EPA Regulations:** Not Applicable  
**OSHA Regulations:** Not Applicable  
**State Regulations:** Not Applicable

### Section 16 - Other Information

**Prepared By:** ADG  
**Revision Notes:** Not Applicable  
**Additional Hazard Rating Systems:** Not Applicable  
**Disclaimer:** Not Applicable