



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.

## DRYFLO (3-L)

						DWN BY	J. Pittman
						ENGR	J. Mocny
						ENGR SIG	P. Hendrix
E	Revision	JAP	06/17/04		040249	HR SIG	J. Mocny
D	Revision	MD	03/03/03	JM	030126	QA SIG	A. Dovin
C	Specific Gravity was 2.1 - 2.5	CB	12/98		980879	ES SIG	K. Massengill
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE	NUMBER	PAGE
A	004/16831/00MSDS	X of 4

# Micromeritics Material Safety Data Sheet

Title : DRYFLO (3-L)  
Date of Preparation : 06/17/04

MSDS No. : 004/16831/00MSDS  
Revision : E

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** DRYFLO™

**Chemical Formula:** N/A

**CAS Number:** N/A

**Other Designations:** N/A

**General Use:** N/A

**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

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Natural Graphite Aluminum Oxide * Crystalline Silica (Quartz)**	7782-42-5	

\* CAS No. 1344-28-1 aluminum oxide present at 29-36% is subject to the reporting requirements of Section 313 of SARA Title III and 40 C.F.R. 372. \*\* California Proposition 65 listed chemical; known to the state to cause cancer. May contain up to 0.8% crystalline silica.

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Natural Graphite	none estab.	none estab.	15 ppm	none estab.	none estab.	none estab.	none estab.
Aluminum Oxide	15 mg/m <sup>3</sup>	none estab.	10 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.
Crystalline Silica (Quartz)	0.1 mg/m <sup>3</sup> ***	none estab.	0.1 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.
Amorphous Silica	6 mg/m <sup>3</sup> ***	none estab.	10 mg/m <sup>3</sup>	none estab.	none estab.	none estab.	none estab.
Titanium Dioxide	10 mg/m <sup>3</sup> Total 5 mg/m <sup>3</sup> Resp.		10 mg/m <sup>3</sup> Total 5 mg/m <sup>3</sup> Resp.	none estab.	none estab.	none estab.	none estab.

\*\*\* Final OSHA PEL effective March 1, 1989

### Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

<b>HMIS</b>
H 1
F 0
R 0
<b>PPE†</b>
†Sec. 8

#### Potential Health Effects

**Primary Entry Routes:** N/A

**Target Organs:** N/A

**Acute Effects**

**Inhalation:** Inhalation may cause lung irritation.

**Eye:** Eye contact may cause irritation.

**Skin:** N/A

**Ingestion:** N/A

**Carcinogenicity:** N/A

**Medical Conditions Aggravated by Long-Term Exposure:** N/A

**Chronic Effects:** N/A

### Section 4 - First Aid Measures

**Inhalation:** Remove person to fresh air - if breathing problem persists call doctor.

**Eye Contact:** Flush eyes with water - if irritation persists call doctor.

**Skin Contact:** N/A

**Ingestion:** N/A

**Note to Physicians:** N/A

**Special Precautions/Procedures:** N/A

### Section 5 - Fire-Fighting Measures

**Flash Point:** N/A

**Flash Point Method:** N/A

**Burning Rate:** N/A

**Autoignition Temperature:** N/A

**LEL:** N/A

**UEL:** N/A

**Flammability Classification:** N/A

**Extinguishing Media:** N/A

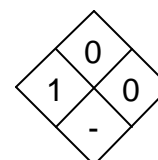
**Unusual Fire or Explosion Hazards:** N/A

**Hazardous Combustion Products:** N/A

**Fire-Fighting Instructions:** N/A

**Fire-Fighting Equipment:** N/A

NFPA



### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Wet material, sweep up and bag.

**Small Spills:** N/A

**Large Spills**

**Containment:** N/A

**Cleanup:** N/A

**Regulatory Requirements:** N/A

## Section 7 - Handling and Storage

**Handling Precautions:** Avoid breathing dust and avoid contact with eyes. Minimize dust generation. Avoid dry sweeping.

**Storage Requirements:** N/A

**Regulatory Requirements:** N/A

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** N/A

**Ventilation:** Local exhaust to keep within prescribed limits.

**Administrative Controls:** N/A

**Respiratory Protection:** NIOSH / MSHA approved dust respirator.

**Protective Clothing/Equipment:** Gloves: N/A; Eye Protection: 287.1-1979 Goggles (ANSI)

**Safety Stations:** N/A

**Contaminated Equipment:** N/A

**Comments:** N/A

## Section 9 - Physical and Chemical Properties

**Physical State:** N/A

**Appearance and Odor:** Gray odorless particles

**Odor Threshold:** N/A

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** N/A

**Formula Weight:** N/A

**Density:** N/A

**Specific Gravity (H<sub>2</sub>O=1):** 0.7 - 0.8

**pH:** N/A

**Water Solubility:** Insoluble

**Other Solubilities:** N/A

**Boiling Point:** N/A

**Freezing/Melting Point:** N/A

**Viscosity:** N/A

**Refractive Index:** N/A

**Surface Tension:** N/A

**% Volatile:** N/A

**Evaporation Rate:** N/A

## Section 10 - Stability and Reactivity

**Stability:** Stable

**Polymerization:** N/A

**Chemical Incompatibilities:** Avoid hydrofluoric acid, chlorine trifluoride, manganese trioxide, and other powerful oxidizers.

**Conditions to Avoid:** None

**Hazardous Decomposition Products:** N/A

## Section 11 - Toxicological Information

### Toxicity Data:

**Eye Effects:** N/A

**Skin Effects:** N/A

**Acute Inhalation Effects:** N/A

**Acute Oral Effects:** N/A

**Chronic Effects:** N/A

**Carcinogenicity:** N/A

**Mutagenicity:** N/A

**Teratogenicity:** N/A

## Section 12 - Ecological Information

**Ecotoxicity:** N/A

**Environmental Fate:** N/A

**Environmental Degradation:** N/A

**Soil Absorption/Mobility:** N/A

## Section 13 - Disposal Considerations

**Disposal:** Dispose of in accordance with applicable regulations. Minimize dust generation. Avoid dry sweeping.

**Disposal Regulatory Requirements:** N/A

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Container Cleaning and Disposal: N/A

### Section 14 - Transport Information

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

Shipping Name: N/A

Shipping Symbols: N/A

Hazard Class: N/A

ID No.: N/A

Packing Group: N/A

Label: N/A

Special Provisions (172.102): N/A

Packaging Authorizations

a) Exceptions: N/A

b) Non-bulk Packaging: N/A

c) Bulk Packaging: N/A

Quantity Limitations

a) Passenger, Aircraft, or Railcar: N/A

b) Cargo Aircraft Only: N/A

Vessel Stowage Requirements

a) Vessel Stowage: N/A

b) Other: N/A

### Section 15 - Regulatory Information

EPA Regulations: N/A

OSHA Regulations: N/A

State Regulations: N/A

### Section 16 - Other Information

Prepared By: ADG

Revision Notes: N/A

Additional Hazard Rating Systems: N/A

Disclaimer: N/A