



**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

## Cover Sheet



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

### MSDS, Polymer Micro-sphere Suspension

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						ENGR SIG	
						HR SIG	
						QA SIG	
-	Formal Release	PW	3-31-2006		060001	ES SIG	
REV	REVISION DESCRIPTION	BY	DATE	CHK	REL. NO.		

SIZE	NUMBER	PAGE
A	004/16840/09MSDS	X of 3

# Micromeritics Material Safety Data Sheet

Title : Polymer Micro-Sphere Suspension  
Date of Preparation : 03/29/2006

MSDS No. : 004/16840/09MSDS  
Revision : -

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Polymer Micro-Sphere Suspension

**Chemical Formula:** C<sub>8</sub>H<sub>8</sub>

**CAS Number:** 9003-53-6; 9003-70-7

**Other Designations:**

**General Use:**

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

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

**Manufacturer:** Duke Scientific Corporation, 2463 Faber Place, P.O. Box 50005, Palo Alto, CA. 94303  
(650) 424-1177, (800) 334-3883

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Solid polymer micro-spheres composed of polystyrene or	9003-53-6	< 0.1-10
Solid polymer micro-spheres composed of divinylbenzene	9003-70-7	< 0.1-10
Water	7732-18-5	90-99.9
Dispersant/surfactant	Proprietary	< 0.5
Preservative	Proprietary	< 0.1

**Trace Impurities:**

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	H IDLH

## Section 3 - Hazards Identification

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

### Potential Health Effects

**Primary Entry Routes:** Inhalation, accidental ingestion, skin or eye contact

**Target Organs:**

**Acute Effects**

**Inhalation:** If inhaled in large quantities, may cause reversible lung irritation.

**Eye:** No data available. If suspension contacts eye, may cause reversible irritation.

**Skin:** No data available. If suspension contacts skin, may cause reversible irritation.

**Ingestion:** NAIF

**Carcinogenicity:** Ingredients are not listed by NTP, IARC, or OSHA as carcinogens.

**Medical Conditions Aggravated by Long-Term Exposure:** None known

**Chronic Effects:** If inhaled in large quantities, may cause reversible lung irritation.

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**Occupational Exposure Limit:** None established by OSHA, ACGIH, or Duke Scientific Corporation.

### Section 4 - First Aid Measures

**Eye Contact:** Wash thoroughly with water. If an irritation develops, seek medical advice.

**Skin Contact:** Wash thoroughly with soap and water. If an irritation develops, seek medical advice.

**Inhalation:** Remove to fresh air and seek medical advice.

**Ingestion:** Give one to two glasses of water and seek medical advice.

### Section 5 - Fire-Fighting Measures

**Flammability / Explosiveness:** Not considered flammable or explosive.

**Fire-Fighting Instructions:** Use extinguishing media appropriate for surrounding fire (water, foam, vaporizing liquid or multipurpose dry chemical).

### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:**

Areas covered with spilled micro-spheres may be slippery. If material is spilled or released, cordon off the area. Collect material by wiping the spill area with a paper towel or disposable wipe, and place materials in the appropriate container. Avoid inhaling fine particle dust. Discard collected material in containers suitable for proper disposal.

### Section 7 - Handling and Storage

When creating aerosols of fine particles, use minimal and directional (away from the user) airflow. Keep tightly sealed to prevent contamination. Store between 4 °C to 30 °C unless otherwise specified on product literature. Avoid damaging or puncturing containers.

### Section 8 - Exposure Controls / Personal Protection

**Eye Protection:** Safety glasses with side shields are suggested.

**Skin Protection:** Powder-free latex or vinyl gloves are suggested.

**Respiratory protection:** Respiratory protection for dust and aerosol generation is recommended (e.g., NIOSH approved filtering dust mask).

**Engineering controls:** Use minimal and directional (away from the user) airflow to minimize worker exposure.

### Section 9 - Physical and Chemical Properties

**Boiling Point:** 100 °C (as water)

**Melting Point:** ) °C (as water)

**Molecular Weight:** Not applicable / mixture

**Polymer Density:** 1.05 g/cm<sup>3</sup>

**Suspension Density:** 1.0 to 1.05 g/cm<sup>3</sup>

**Solubility in Water:** Micro-spheres are insoluble

**Percent Volatile:** Negligible

**Vapor Pressure:** Negligible

**Vapor Density:** Negligible

**Appearance, Color, Odor:** White or colorless liquid, odorless

### Section 10 - Stability and Reactivity

**Stability:** Stable

**Incompatibility:** None known

**Hazardous Decomposition Products:** None known

**Hazardous Polymerization:** Will not occur

### Section 11 - Toxicological Information

**See Section 3:** Health Hazards

### Section 12 - Environmental Information

No data available

### Section 13 - Disposal Considerations

All wastes containing the product should be specially contained, properly labeled, and stored separately from other facility waste discharges. Dispose of any waste residues according to prescribed federal, state, and local guidelines (e.g., to an appropriately permitted chemical waste incinerator). Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner (e.g., appropriately permitted municipal or on-site wastewater treatment facility or be collected for disposal according to prescribed federal, state, and local guidelines).

### Section 14 - Transport Information

**Hazards Class:** Not classified per U.S. DOT or IATA

**UN Number:** Not classified per U.S. DOT or IATA

### Section 15 – Label / Regulatory Information

**Hazard Labeling:** None

**EU Risk and Safety Phrases:** None required

**California Proposition 65:** Not regulated

### Section 16 - Other Information

**Prepared By:** J. Pittman

**Revision Notes:**

**Disclaimer:** *The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof; however the original manufacturer, Duke Scientific Corporation, makes no warranty with respect to accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.*

### Abbreviations

**ACGIH:** American Conference of Governmental Industrial Hygienists

**DOT:** Department of Transportation

**EU:** European Union

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**IARC:** International Agency for Research on Cancer\  
**IATA:** International Air Transport Association  
**NIOSH:** National Institute for Occupational Safety and Health  
**NTP:** National Toxicology Program  
**OSHA:** Occupational Safety and Health Administration