



**ND INDUSTRIES, INC.**  
**1893 BARRETT ROAD**  
**TROY, MICHIGAN 48084**  
 (248) 288-0000 Fax: (248) 288-0022  
**24 hr. EMERGENCY CHEMTREC:**  
**1-800-424-9300**

**PRODUCT: ND Microspheres® Acrylic Series**

**MSDS ID: ND3558**

**ORIG. DATE: 2/9/98 Updated: 1/21/2000**

**REV. DATE: 12/29/08**

**REV. DATE:**

**PREPARED BY: Chemical Safety**

**SECTION I -Material Identification and Information H: 1 F: 0 R: 0 PPE C**

COMPONENTS		CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Ethoxylated Bisphenol-A Dimethacrylate	MC-95	24448-20-2	30-45	n.e.	n.e.	
Diethylene Glycol Monobutyl Ether	MC-124	112-34-5	1-5	n.e.	n.e.	
Synthetic Amorphous Silica	MC-46	112945-52-5	<2	6 mg/m3	3 mg/m3	Respirable Dust
AA0696 and AA1096 only: Hydrous Aluminum Silicate	MC-223	1332-58-7	5-10	5 mg/m3	2 mg/m3	Respirable Dust
AA1195 and AA1196 only: Polyethylene Wax	MC-147	9002-88-4	5-10	n.e.	n.e.	
AA0995, AA0996, and AA1395 only: Diethyl Phthalate	MC-151	84-66-2	7-13	n.e.	n.e.	

The remaining components of this product are not considered hazardous substances or are below reportable levels under OSHA's Hazard Communication Standard (29 FR 1910.1200)

All ingredients are listed on the TSCA Inventory.

n.a.= not applicable / n.e.=not established

**SECTION II -Physical and Chemical Characteristics**

<b>BOILING POINT:</b>	n.a.		<b>VOC #/US gal. :</b>
<b>VAPOR DENSITY:</b>	n.a.	air = 1	<b>DENSITY OF COATING:</b>
<b>VAPOR PRESSURE:</b>	n.a.		
<b>MELTING POINT:</b>	n.a.		
<b>SPECIFIC GRAVITY:</b>	> 1.0	water = 1	
<b>EVAPORATION RATE:</b>	n.a.		butyl acetate
<b>WATER REACTIVE:</b>	No.		
<b>SOLUBILITY IN WATER:</b>	Negligible		
<b>APPEARANCE AND ODOR:</b>	Cohesive solid with no odor. Color varies.		

**SECTION III - Fire and Explosion Hazard Data**

**FLASH POINT:** n.a.

**AUTOIGNITION TEMPERATURE:** n.a.

**FLAMMABILITY LIMITS % IN AIR:** LEL: n.a. UEL: n.a.

**EXTINGUISHER MEDIA:** Use extinguishing media proper to primary cause of fire.

**SPECIAL FIREFIGHTING PROCEDURES:** Wear NIOSH approved self-contained breathing apparatus with full face piece operated in pressure-demand or other positive pressure mode when fighting fires. Cool fire exposed containers.

**UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:** Residue may burn yielding organic vapors. Combustion yields oxides of carbon.



# MATERIAL SAFETY DATA SHEET

**PRODUCT: ND Microspheres® Acrylic Series**

Component	Oral LD50	Dermal LD50	Inhalation LC50
Ethoxylated Bisphenol A Dimethacrylate	n.e.	n.e.	n.e.
Diethylene Glycol Monobutyl Ether	7292 mg/kg (rat)	2764 mg/kg (rabbit)	n.e.
Synthetic Amorphous Silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	n.e.
AA0696 and AA1096 only: Hydrous Aluminum Silicate	n.e.	n.e.	n.e.
AA1196 only: Polyethylene Wax	>2000 mg/kg (rat)	n.e.	n.e.
AA0995, AA0996, and AA1395 only: Diethyl Phthalate	9000 mg/kg (rat)	>20 mg/kg (guinea pig)	4.64 mg/l/6 hrs (rat)

## SECTION VI - Control and Protective Measures

**RESPIRATORY PROTECTION:** Not required.

**PROTECTIVE GLOVES:** Use rubber or latex.

**EYE PROTECTION:** Wear NIOSH approved safety glasses w/side shields

**VENTILATION TO BE USED:** LOCAL EXHAUST:  MECHANICAL: SPECIFIC: OTHER (specify):

**PROTECTIVE CLOTHING AND EQUIPMENT:** Wear impervious clothing to prevent repeated prolonged skin exposure.

**HYGIENIC WORK PRACTICES:** Practice good personal hygiene and wash hands after using product.

## SECTION VII - Precautions for Safe Handling and Spill/Leak Procedures

### STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Sweep up material and transfer to container for proper disposal.

**WASTE DISPOSAL METHODS:** Based on our knowledge of the product, its raw materials and processes employed during its manufacture, we believe it is unlikely that this product is a hazardous waste for Federal RCRA purposes. We recommend that you carry out your own tests and evaluations prior to discarding any materials.

**SAFE HANDLING AND STORAGE:** Avoid skin or eye contact contact. Store material at room temperature and keep product container sealed when not in use.

### OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

DOT Proper Shipping Name:  
Not Regulated

**RECOMMENDED NFPA/HMIS RATING**

**HEALTH 1**

**FLAMMABILITY 0**

**REACTIVITY 0**

**PERSONAL PROTECTION C**

note: ratings may differ according to application, environment, and physical state.

# MATERIAL SAFETY DATA SHEET

**PRODUCT: ND Microspheres® Acrylic Series**

**NOTES:**

ND Microspheres® Acrylic Series includes the following product numbers: AA0696, AA0895, AA0896, AA0995, AA0996, AA1095, AA1096, AA1195, AA1196, AA1295, AA1296, AA1395.

### SECTION 313 SUPPLIER NOTIFICATION

Detaching this notification from the Material Safety Data Sheet is prohibited by law and any copying or distribution of same requires this attachment be included.

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>% BY WEIGHT</u>
	None	

This product contains the following materials that under California Proposition 65 of the Safe Drinking Water and Toxic Enforcement Act of 1986 are recognized to cause cancer or reproductive toxicity.

<u>Material</u>	<u>CAS #</u>	<u>Concentration %</u>	<u>Cancer Agent</u>	<u>Reproductive Toxin</u>	<u>cancer agent &amp; Reproductive Toxin</u>
None					

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