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PRODUCT: ND Microspheres® Epoxy Series (593, 1193)
MSDS ID: ND3236
ORIG. DATE: 6/21/04
REV. DATE: 1/30/06

PREPARED BY: Chemical Safety

SECTION I -Material Identification and Information H: 1 F: 0 R: 0 PPEC

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Cycloaliphatic amine	MC-03-166	1761-71-3 20-25	n.e.	n.e.	
Synthetic Polymer Resin	MC-03-79	27360-07-2 5-7	15 mg/m3	10 mg/m3	
Silica	MC-03-583	7631-86-9 5-10	6.0 mg/m3	10 mg/m3	nuisance dust.
Epoxy Resin	MC-03-81	28064-14-4 50-55	n.e.	n.e.	nuisance dust.
Urea-formaldehyde-melamine polymer		25036-13-9 15-20	n.e.	n.e.	
Pigment	MC-03-250	Non haz 1-3	n.e.	n.e.	

All ingredients are listed on the TSCA Inventory. n.a.= not applicable / n.e.=not established

SECTION II -Physical and Chemical Characteristics

BOILING POINT: not applicable
VAPOR DENSITY: n.a. air = 1
VAPOR PRESSURE: n.a.
MELTING POINT: n.a.
SPECIFIC GRAVITY: > 1.0 water = 1
EVAPORATION RATE: n.a. butyl acetate
WATER REACTIVE: No.
SOLUBILITY IN WATER: ~ 0.1 - 1.0%
APPEARANCE AND ODOR: Cohesive malleable solid with no odor. Variable colors.

VOC #/gal. :
DENSITY OF COATING:

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: >200°F
AUTOIGNITION TEMPERATURE: Unknown.
FLAMMABILITY LIMITS % IN AIR: LEL: n.a. UEL: n.a.
EXTINGUISHER MEDIA: Use dry chemicals, foam, CO2, water and/or water fog.

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.

UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID: Combustion yields oxides of carbon and nitrogen, aldehydes, acids and cyanides

MATERIAL SAFETY DATA SHEET

PRODUCT: ND Microspheres® Epoxy Series (593, 1193)

Component	Oral LD50	Dermal LD50	Inhalation LC50
Cycloaliphatic amine	>625mg/Kg (rat)	>2110 mg/kg (rabbit)	>10 mg/L/hr. (rat)
Synthetic Polymer Resin	approx. nontoxic	approx. nontoxic	not determined
Silica	>31600 mg/Kg (rat)	>2000 mg/Kg (rabbit)	not determined
Epoxy Resin	not determined	not determined	not determined
Urea-formaldehyde-melamine polymer	see notes	see notes	not determined
Pigment	not determined	not determined	not determined

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: None required.

PROTECTIVE GLOVES: Use rubber or latex.

EYE PROTECTION: Wear NIOSH approved chemical splash goggles.

VENTILATION TO BE USED: LOCAL EXHAUST: MECHANICAL: SPECIFIC: OTHER (specify): Work in a well ventilated area.

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 a container for proper disposal.

WASTE DISPOSAL METHODS: Dispose of material according to local, state and federal regulations.

SAFE HANDLING AND STORAGE: Store material in a cool dry place.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

RECOMMENDED NFPA/HMIS RATING

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION C

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

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NOTES:

Proper DOT shipping name:
not regulated

The toxicity data for the urea-formaldehyde-melamine polymer has not been determined, but suppliers of urea-formaldehyde and melamine-formaldehyde resins in an unpolymerized form report their material to be nontoxic to rats orally and rabbits dermally with LD50's of >5000 mg/Kg and >2000 mg/Kg, respectively.

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 & Reproductive Toxin</u>
Epichlorohydrin	106-89-8	< 1ppm	X		

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