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PRODUCT: ND Epoxy-Lock®

MSDS ID: **ND3559**
 ORIG. DATE: **9/21/98**
 REV. DATE: **3/7/05**
 REV. DATE: **12/30/08**

PREPARED BY: **Chemical Safety**

SECTION I -Material Identification and Information H: 1 F: 1 R: 2 PPE C

COMPONENTS		CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Amine curing agent adduct	UVH-PCH Base	Mixture	25-30	n.e.	n.e.	
Dimethacrylate ester	UVH-95	24448-20-2	15-20	n.e.	n.e.	
Amine accelerator	UVH-1	103-83-3	2-6	n.e.	n.e.	
Phosphine oxide	UVH-100	75980-60-8	1-5	n.e.	n.e.	
Epoxy resin	UVR-82	Proprietary	30-35	n.e.	n.e.	
Triacrylates	UVR-9	15625-89-5	10-15	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: n.a. **VOC #/US gal. :**

VAPOR DENSITY: n.a. air = 1 **DENSITY OF COATING:**

VAPOR PRESSURE: n.a.

MELTING POINT: n.a.

SPECIFIC GRAVITY: 1.05 water = 1

EVAPORATION RATE: n.a.

WATER REACTIVE: No

SOLUBILITY IN WATER: Nil

APPEARANCE AND ODOR: Two stripes of a solid film with slight amine odor. Color varies.

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: n.a.

AUTOIGNITION TEMPERATURE: not determined

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

EXTINGUISHER MEDIA: Use dry chemicals and/or carbon dioxide.

SPECIAL FIREFIGHTING PROCEDURES: Wear NIOSH 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: Potential organic toxic fumes. Combustion yields oxides of carbon and nitrogen.

MATERIAL SAFETY DATA SHEET

PRODUCT: ND Epoxy-Lock®

SECTION IV - Reactivity Hazard Data

STABILITY: **stable:** X **unstable:**
HAZARDOUS POLYMERIZATION: **may occur:** X **will not occur:**

CONDITIONS TO AVOID: Avoid unintentionally breaking skinned layers of material on fastener.

INCOMPATIBILITY: Avoid strong acids and strong alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion yields acrid smoke and oxides of carbon and nitrogen. Nitrogen oxide can react water vapors to form nitric acid.

SECTION V - Health Hazard Data

PRIMARY ROUTES OF ENTRY: **INHALATION:** **INGESTION:** **SKIN ABSORPTION:** X

EYE CONTACT: Not a likely route of exposure. If enters eye, it may cause chemical and mechanical irritation. Serious injury could result.

FIRST AID: Flush with generous amounts of water for 15 minutes lifting both upper and lower eyelids occasionally. Seek medical attention immediately.

SKIN CONTACT: Not a likely route of exposure. May cause irritation of the skin.

FIRST AID: Immediately remove contaminated clothing and shoes. Wipe excess from skin and flush with plenty of water for at least 15 minutes. Thoroughly wash exposed area with soap and water. If irritation occurs, seek medical attention. Launder clothing before reuse.

INHALATION: Heating of material can generate vapors that could cause headaches, nausea, and respiratory irritation.

FIRST AID: Remove individual to fresh air. Give oxygen if breathing is difficult. Administer artificial respiration if not breathing. Obtain immediate medical attention.

INGESTION: Not a likely route of exposure. Slightly toxic if swallowed. Components of this material are highly injurious to all tissues. Contents of stomach should be removed by gastric suction or vomiting under the guidance of medical personnel.

FIRST AID: If swallowed give 3-4 glasses of water. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.

CHRONIC EFFECTS: Dermatitis and indigestion.

Carcinogenic: Not listed.

MATERIAL SAFETY DATA SHEET

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Amine curing agent adduct	1653 mg/kg Rat	1350 mg/kg Rabbit	0.5 mg/L Rat
Dimethacrylate ester	<5000 mg/kg Rat	not determined	not determined
Amine accelerator	265 mg/kg Rat	1660 mg/kg Rabbit	2.06 mg/L Rat
Phosphine oxide	not determined	not determined	not determined
Epoxy resin	> 4g/kg Rabbit	6g/kg Rabbit	not determined
Triacrylates	5000 mg/kg Rat	5200 mg/kg Rabbit	not determined

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: In the applied form additional respiratory protection is not necessary. It is best to work in a well ventilated area.

PROTECTIVE GLOVES: Wear chemical resistant glove such as rubber, nitrile or neoprene.

EYE PROTECTION: Wear NIOSH approved safety glasses. Emergency eye wash stations should be available.

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

PROTECTIVE CLOTHING AND EQUIPMENT: Wear impervious clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES: Practice good personal hygiene and wash hands after using product. Adhere to work practices established by government regulations.

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

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Sweep up material and place in proper waste receptacle.

WASTE DISPOSAL METHODS: Dispose of material in accordance with local, state and federal regulations.

SAFE HANDLING AND STORAGE: Store in a cool dry area away from direct sunlight.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:
n.a.

RECOMMENDED NFPA/HMIS RATING

HEALTH 1

FLAMMABILITY 1

REACTIVITY 2

PERSONAL PROTECTION C

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

MATERIAL SAFETY DATA SHEET

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NOTES:

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:

CAS # CHEMICAL NAME % BY WEIGHT

This product contains no chemical above *de minimis* levels that is subject to Toxic Chemical Release Reporting under Section 313.

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	<1 ppm	X		
Toluene	108-88-3	(trace)		X	
Phenyl glycidyl ether	122-60-1	<2 ppm	X		

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