



**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: 210 React-A-Pack Single Use Epoxy**

**MSDS ID: ND1114**

**ORIG. DATE: 4-04-95**

**REV. DATE: 7/5/06**

**REV. DATE: 12/23/08** **PREPARED BY: Chemical Safety**

**SECTION I -Material Identification and Information** **H: 3** **F: 1** **R: 0** **PPE: C**

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
<b>Epoxy Side:</b> Bisphenol A Epoxy Resin (modified)	RP-00-05	proprietary	50-100	n.e.	n.e.
<b>Hardener Side:</b> Epoxy curing agent contains: Nonylphenol - >30% of mixture Aminoethyl Piperazine- <50% mixture	RP-00-415		90-100		
		25154-52-3	n.e.	n.e.	
		140-31-8	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 CFR 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>	approx. >200°C	<b>VOC #/US gal. :</b>
<b>VAPOR DENSITY:</b>	n.e. air = 1	<b>DENSITY OF COATING:</b>
<b>VAPOR PRESSURE:</b>	n.e.	
<b>MELTING POINT:</b>	n.a.	
<b>SPECIFIC GRAVITY:</b>	1.17 water = 1	
<b>EVAPORATION RATE:</b>	negligible	
<b>WATER REACTIVE:</b>	No	
<b>SOLUBILITY IN WATER:</b>	slight	
<b>APPEARANCE AND ODOR:</b>	Clear or opaque sealed plastic pack with two discernible areas of light and dark amber translucent material, observable in clear packs. Slight acrylic odor when pack is opened.	

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

<b>FLASH POINT:</b>	101°C	closed cup
<b>AUTOIGNITION TEMPERATURE:</b>	not determined	
<b>FLAMMABILITY LIMITS % IN AIR:</b>	LEL: not determined	UEL: not determined
<b>EXTINGUISHER MEDIA:</b>	Carbon dioxide, dry chemical powder or appropriate foam	
<b>SPECIAL FIREFIGHTING PROCEDURES:</b>	Wear a self-contained breathing apparatus with full face piece operated in the positive pressure demand mode with appropriate turnout gear and chemical resistant personal protective equipment.	
<b>UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID:</b>	Water or foam used as an extinguishing media may cause violent frothing which can be violent and may further threaten life. Contact of liquid with skin must be prevented. Personnel in vicinity and downwind should be evacuated.	

# MATERIAL SAFETY DATA SHEET

**PRODUCT:** 210 React-A-Pack Single Use Epoxy

## SECTION IV - Reactivity Hazard Data

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

**CONDITIONS TO AVOID:**      Avoid mixing components of pack together until ready to use.

**INCOMPATIBILITY:** Oxidizers, heat, direct sunlight, free radical initiators, inert gases and acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:**      Toxic fumes may be emitted when combusted along with oxides of carbon and nitrogen and acrid smoke.

## SECTION V - Health Hazard Data

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

**EYE CONTACT:**      Exposure to eyes will cause irritation, permanent injury and blindness. Symptoms include stinging, tearing and redness. May also cause corneal edema - perception of blue haze around fog - effects are transient.

**FIRST AID:**      Immediately flush eyes with copious amounts of water for 15 minutes while holding eyelids open. Get medical attention.

**SKIN CONTACT:**      Exposure to skin causes severe irritation and may be corrosive to skin. Symptoms may include redness, burning, and skin damage.

**FIRST AID:**      Remove contaminated clothing. Flush area with water for at least 15 minutes. Cover affected area with sterile dressing or clean sheeting and seek medical care immediately. DO NOT APPLY OINTMENTS OR GREASES.

**INHALATION:**      May cause irritation of the nose, throat, and respiratory tract. Symptoms are coughing and chest pain.

**FIRST AID:**      Move to fresh air. Restore breathing if required. Get medical attention.

**INGESTION:**      Large amounts may cause gastrointestinal irritation (nausea, vomiting, diarrhea).

**FIRST AID:**      Administer 3-4 glasses of milk or water. Do Not Induce Vomiting. Never administer liquids to a person that is unconscious. Seek medical attention immediately.

**CHRONIC EFFECTS:**

**Carcinogenic:**      This product contains no carcinogens.

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Component	Oral LD50	Dermal LD50	Inhalation LC50
<b>Resin Side:</b> Bisphenol A Epoxy Resin (modified)	not determined	not determined	not determined
<b>Hardener Side:</b> Epoxy curing agent contains: Nonylphenol - >30% of mixture Aminoethyl Piperazine- <50% mixture	1620 mg/Kg (rat)	not determined	not determined

## SECTION VI - Control and Protective Measures

**RESPIRATORY PROTECTION:** None required under normal conditions. Use material in a well ventilated area.

**PROTECTIVE GLOVES:** Use chemical resistant gloves.

**EYE PROTECTION:** Use NIOSH approved safety glasses

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

**PROTECTIVE CLOTHING AND EQUIPMENT:** Avoid contact with clothing to prevent skin contact.

**HYGIENIC WORK PRACTICES:** Always wash hands after using material. Promptly remove and launder clothing that may have come into contact with contents of pack.

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

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

This product in its present form should present no threat of spill.

**WASTE DISPOSAL METHODS:** Dispose of material according Federal, state and local regulations.

**SAFE HANDLING AND STORAGE:** Store material away from heat and direct sunlight in a rigid container to prevent inadvertent mixing of components.

### OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

Mixing of the two components within the packet creates a thermogenic reaction. The packet will become warm to the touch.

**RECOMMENDED  
NFPA/HMIS  
RATING**

**HEALTH 3**

**FLAMMABILITY 1**

**REACTIVITY 0**

**PERSONAL C  
PROTECTION**

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

MATERIAL SAFETY DATA SHEET

PRODUCT: 210 React-A-Pack Single Use Epoxy

NOTES:

Proper DOT Shipping Name:  
NON BULK Corrosive liquids, n.o.s (Nonylphenol/N-Aminoethylpiperazine)//8//UN3267//PGIII

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class - Corrosive. Sensitizer

WHMIS Hazard Classification - Class D Division 2B, Class E Corrosive

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
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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.

Material	CAS #	Concentration %	Cancer Agent	Reproductive Toxin	cancer agent & Reproductive Toxin
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