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PRODUCT: 921B Structural Adhesive Hardener
MSDS ID: ND3544
ORIG. DATE: 10/30/08
REV. DATE:
REV. DATE:
PREPARED BY: Chemical Safety

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

COMPONENTS	CAS #	PERCENT %	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Aliphatic Amines	4246-51-9	25-30	n.e.	n.e.	
Polyamide	Proprietary	25-30	n.e.	n.e.	
Amine Curing Agent	Proprietary	25-30	n.e.	n.e.	10 ppm WEEL
Epoxy Resin	25068-38-6	10-15	n.e.	n.e.	
Amine Catalyst	Proprietary	5-10	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.e.		VOC #/gal. :	n.e.
VAPOR DENSITY:	n.e.	air = 1	DENSITY OF COATING:	n.e.
VAPOR PRESSURE:	n.e.			
MELTING POINT:	n.e.			
SPECIFIC GRAVITY:	1.03	water = 1		
EVAPORATION RATE:	n.e.			
WATER REACTIVE:	No			
SOLUBILITY IN WATER:	Soluble			
APPEARANCE AND ODOR:	Amber liquid with ammoniacal odor.			

SECTION III - Fire and Explosion Hazard Data

FLASH POINT: n.e.
AUTOIGNITION TEMPERATURE: n.e.
FLAMMABILITY LIMITS % IN AIR: LEL: n.e. UEL: n.e.
EXTINGUISHER MEDIA: Dry chemical, Carbon dioxide, Alcohol resistant foam

SPECIAL FIREFIGHTING PROCEDURES: Wear self contained breathing apparatus for fire fighting.

UNUSUAL FIRE HAZARDS AND CONDITIONS TO AVOID: May generate ammonia gas. May generate toxic nitrogen gases. Use of water may result in the formation of toxic aqueous solutions. Do not allow run-off to enter drains or water courses.

MATERIAL SAFETY DATA SHEET

PRODUCT: 921B Structural Adhesive Hardener

SECTION IV - Reactivity Hazard Data

STABILITY: **stable:** x

unstable:

HAZARDOUS POLYMERIZATION:

may occur:

will not occur: x

CONDITIONS TO AVOID:

Sodium hypochlorite, organic acids, mineral acids, oxidizing agents. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

INCOMPATIBILITY: Bases

HAZARDOUS DECOMPOSITION PRODUCTS:

Nitrogen oxides, nitric acid, organic acid vapors, ammonia, carbon monoxide. Nitrogen oxide can react with water vapors to form corrosive nitric acid.

SECTION V - Health Hazard Data

PRIMARY ROUTES OF ENTRY:

INHALATION: X

INGESTION:

SKIN ABSORPTION: x

EYE CONTACT:

Causes eye burns. May cause blindness. Product vapor can cause corneal edema when absorbed into the tissue of the eye from the atmosphere.

FIRST AID:

Hold eyelids apart, flush with water for at least 15 minutes. Get medical attention immediately. If medical attention is not promptly available, continue to flush eyes for one hour. Seek medical attention.

SKIN CONTACT:

Causes skin burns. If absorbed through the skin, may cause central nervous system effects, such as headache, nausea, dizziness, confusion, breathing difficulties. Harmful in contact with skin.

FIRST AID:

Remove contaminated clothing immediately. Wash affected area with soap and water for at least 15 minutes. Get medical attention immediately. If medical attention is not promptly available continue washing affected area.

INHALATION:

Can cause respiratory tract burns. May cause nose, throat, and lung irritation. Severe cases of overexposure may result in respiratory failure.

FIRST AID:

Move to fresh air. Seek medical attention.

INGESTION:

Not an anticipated route of entry. If swallowed, do not induce vomiting. Prevent aspiration of vomit. Get medical attention.

FIRST AID:

CHRONIC EFFECTS:

No

Carcinogenic: No

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Component	Oral LD50	Dermal LD50	Inhalation LC50
Aliphatic Amines	3160 mg/kg (rat)	>2500 mg/kg (rabbit)	n.e.
Polyamide	4310 mg/kg (rat)	n.e.	n.e.
Amine Curing Agent	500 mg/kg (rat)	2000 mg/kg (rabbit)	n.e.
Epoxy Resin	>2000 mg/kg	>2000 mg/kg	n.e.
Amine Catalyst	1673 mg/kg (rat)	1242 mg/kg (rabbit)	n.e.

SECTION VI - Control and Protective Measures

RESPIRATORY PROTECTION: Wear appropriate respirator when ventilation is inadequate.

PROTECTIVE GLOVES: Use chemical impervious gloves, such as neoprene, butyl-rubber, nitrile. glove material is dependent on use and intended use period.

EYE PROTECTION: Chemical resistant goggles.

VENTILATION TO BE USED: LOCAL EXHAUST: MECHANICAL: SPECIFIC: OTHER (specify): Provide readily accessible eye wash stations and safety showers. Provide adequate ventilation.

PROTECTIVE CLOTHING AND EQUIPMENT: Wear chemical impervious clothing.

HYGIENIC WORK PRACTICES: Wash hands thoroughly before eating, smoking, or using toilet, and at the end of each shift.

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

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

Stop material flow if safe to do so. Use self contained breathing apparatus and chemical protective clothing. Only trained personnel should clean up spills. Construct dike to prevent material spread. Use appropriate absorbent. Place materials in an appropriate container.

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

SAFE HANDLING AND STORAGE: Do not store in reactive metal containers. Keep container tightly closed. Store in a cool dry and well ventilated place.

OTHER PRECAUTIONS AND SPECIAL HAZARDOUS INFORMATION:

**RECOMMENDED
NFPA/HMIS
RATING**

HEALTH 3

FLAMMABILITY 1

REACTIVITY 0

**PERSONAL
PROTECTION**

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

MATERIAL SAFETY DATA SHEET

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NOTES:

190921B

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>
Phenyl Glycidyl Ether		<6 ppm	X		

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