

MSDS **Material Safety Data Sheet**

UNITEX

SLOW SET BONDING AGENT

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MSDS Number: 1012

Revision Date: NOV 20, 2003

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

UNITEX

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Product Name: SLOW SET BONDING AGENT

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Common Name: Aminopropyldiethanolamine

Product Code: SLOW SET BONDING AGENT

Chemical Family: Aminopropyldiethanolamine

Synonyms: Amines Liquid Corrosive

Product Use: Injection Resin

Emergency Telephone No.: 800-424-9300

MSDS Prepared by: Wm. Michael Simmons Director of Safety Phone: 816-231-7700

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas #	Chemical Name	Perc.

Component A		
	Base Epoxy Resin	
25068386	Modified Bisphenol A/Epichlorohydrin	>90%
1317802	TiO ₂	<5%
1317653	Coated Precipitated Calcium Carbonate	<5%

Component B

Trade Secret Amine Blend containing one or more of the following:

NE		100%
111400		

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HAZARDS IDENTIFICATION

Route of Entry:	Eyes, Skin, Swallowing, Inhalation
Target Organs:	None Known
Inhalation:	May cause irritation to nose and throat.
Skin Contact:	May cause irritation and dermatitis.
Eye Contact:	May cause irritation, sensitization and may lead to eye damage.
Ingestion:	May cause irritation of the mouth, stomach and sensitization.

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This product contains detectable amounts of a chemical known to the state of California to cause birth defects/cancer or other reproductive harm: Epichlorohydrin.

	OSHA PEL	ACGUH TLV
COMPONENT A		
25068386	NE	NE
1317802	15 mg/m3	10 mg/m3
1317653	5 mg/m3	5 mg/m3

COMPONENT B		
NE	NE	NE
111400	NE	NE

None of the remaining components are considered a hazardous material or carcinogen (1910.1200 Hazard Communication (d) 4).

4 FIRST AID MEASURES

- Inhalation:** If respiratory irritation occurs, go to fresh air. Flood work area with fresh air. If irritation continues seek medical attention.
- Skin Contact:** Remove contaminated clothing and shoes. Wash affected area(s) thoroughly with soap and water. If irritation persists, seek medical attention. SOLVENTS SHOULD NOT BE USED because they carry the material into the skin.
- Eye Contact:** Flush the eyes with plenty of water for at least 15 minutes. If necessary, gently hold eyelids open during the flush. Immediately seek medical attention.
- Ingestion:** Obtain immediate medical attention. Do not induce vomiting. Should vomiting occur, be sure to keep victim's head below hips to avoid aspiration of vomitus into the lungs.

5 FIRE FIGHTING MEASURES

Flash Point: >200 F.
Flash Point Method: Pensky Martins Closed Cup Method
Burning Rate: No data available.
Autoignition Temperature: No data available.
LEL: NA
UEL: NA

Other:

Special Fire Fighting Procedures: None. Avoid breathing smoke. NFPA Class B-C extinguishers (dry chemical or foam) for class 1C fires. Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers. Use fog nozzels if water is used. Use supplied breathing masks.

6 ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Absorb with an inert material (sand, vermiculite, etc.). Sweep or scoop and put into disposal containers. Flush area immediately with water (prevent water from entering waterways).

LARGE SPILLS:

Containment: For large spills, dike far ahead of liquid spill for later disposal. Do not release into sewers or waterways.
Clean-up: Absorb with an inert material (sand, vermiculite, etc.). Sweep or scoop into disposal containers. Flush area immediately with water (prevent water from entering waterways).
Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

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Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area or until spill clean-up has been completed.

7 HANDLING AND STORAGE

- Handling Precautions:** For professional use only. Avoid eye/skin contact. Wash after using and before eating or smoking. Avoid breathing vapors. Use as directed. Avoid uncontrolled mixing with other mixtures (strong acids, bases and oxidizers). Respiratory protection is required when ventilation is inadequate. NIOSH/OSHA approved respirators should be provided and worn.
- Storage Requirements:** Store in a cool/dry location. Do not allow material to freeze, as product may be damaged. Store away from sparks and open flames.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:**
- Protective Equipment:** VENTILATION: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents containment dispersion into the work area by controlling it at its source.
- RESPIRATORY PROTECTION: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 190.134) and, if necessary, wear OSHA/NIOSH approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.
- PROTECTIVE CLOTHING/EQUIPMENT: Wear chemically protective gloves, boots, aprons to prevent prolonged or repeated skin contact. Wear protective goggles and face shield, per OSHA eye and face protection regulations (29 CFR 1910.133).
- CONTAMINATED EQUIPMENT: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your work shoes and clean personal protective equipment.
- OTHER PRECAUTIONS: Never eat, drink, or smoke in work areas.

This material is not listed by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

9 PHYSICAL AND CHEMICAL PROPERTIES

- | | | | |
|--------------------------|-----------------------------|------------------------------|---------------|
| Appearance: | A-Gray B-Amber | Boiling Point: | ND |
| Physical State: | Liquid | Freezing/Melting Pt.: | ND/NE |
| Odor: | A=Mild B=Strong Distinctive | Solubility: | Insoluble |
| pH: | ND | Spec Grav./Density: | A=1.14 B=1.01 |
| Vapor Pressure: | N/E | | |
| Vapor Density: | (Air=1) >1 | | |
| VOC: | 0 | | |
| Evap. Rate: | Slower than Butyl Acetate | | |
| Viscosity: | Gel | | |
| Percent Volatile: | 0 | | |

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10 STABILITY AND REACTIVITY

Stability: Stable / Cured epoxy resins are innocuous.

Conditions to avoid: None

Materials to avoid (incompatibility): Strong oxidizers, acids and bases

Hazardous Decomposition products: CO, CO₂, NO_x

Hazardous Polymerization: None

11 TOXICOLOGICAL INFORMATION

No data available.

12 ECOLOGICAL INFORMATION

No data available.

13 DISPOSAL CONSIDERATIONS

When disposed of properly, this material does not meet RCRA classification or listing for hazardous waste. Never dispose of a liquid into a landfill. Spilled material should be stabilized or solidified prior to disposal. Once stabilized/solidified, the material may be disposed of through normal means. Certain localities and state laws have specific disposal requirements for non-hazardous industrial chemicals. Consult municipal authorities, landfill personnel, disposal companies for details prior to any disposal activity. Always follow local, state and federal regulations.

14 TRANSPORT INFORMATION

Shipping Name: Amines, Liquid Corrosive, N.O.S. (aminopropyl diethanolamine) UN2735, Class 8 Corrosive, PGIII.

Placards required over 1000 lbs.

15 REGULATORY INFORMATION

This MSDS has been prepared in accordance with federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

HMIS Codes: Health(3) Flammability(1) Reactivity(1) PPE(H)

16 OTHER INFORMATION

The information and recommendations in this document are based on the best information available to us at the time of preparation. We make no other warranty, expressed or implied, as to its correctness or completeness, or as to the results or reliance of this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

END OF MSDS DOCUMENT