

# Adhesives and Chemicals, Inc.

(570) 654-6735 Fax:(570) 654-0676

131 Brown Street, Pittston, PA 18640-3799

## MATERIAL SAFETY DATA SHEET

### SECTION I: MATERIAL IDENTIFICATION

**PRODUCT CODE:** **4521-B** (Epoxy Hardener - aliphatic polyaminoamide)

**Manufacturer's Name:** Adhesives and Chemicals, Inc.  
131 Brown Street  
Yatesville, Pittston, PA 18640

**Telephone numbers:** 570-654-6735  
570-883-0303

**Emergency Number:** Chemtrec 800-424-9300

Updated: 11/10/11

### SECTION 2: COMPOSITION

Hazardous Component	C.A.S. #	ACGIH TWA/ppm	ACGIH STEL/ppm	OSHA TWA/ppm
1,2-ethanediamine, N,N'-bis(2-aminoethyl)-triethylenetetramine	112-24-3	N/E	N/E	N/E
Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine polyamide resin	68082-29-1	N/E	N/E	N/E

### SECTION 3: HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW:**

Warning! Severe eye irritant. Can cause skin irritation. May cause allergic skin and respiratory reactions.

Primary route of entry: Dermal

**SECTION 4: FIRST AID MEASURES**

**Ingestion:** If swallowed, give at least 3-4 glasses of water but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

**Skin:** For skin contact, immediately wipe off affected area with dry towel. Then wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes. Get immediate medical attention. Discard contaminated clothing and shoes.

**Inhalation:** If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical care and, if available, give supplemental oxygen.

**Eyes:** For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. If physician is not available, flush for additional 15 minutes. Get immediate medical attention.

**Overexposure Effects:** Overexposure to this material can cause severe eye irritation with symptoms such as tearing, redness and impaired vision. Can cause irritant and allergic reactions to both skin and respiratory system with symptoms such as rashes, wheezing, coughing and difficulty breathing. Based on animal studies, a component in this product may have effects on the liver, kidney, brain and developing fetus.

**Medical conditions aggravated by exposure:** Allergy, eczema or skin conditions, respiratory conditions.

**SECTION V: FIRE FIGHTING MEASURES**

**Flash Point:** > 200°F (> 93 °C)

**Flash Point Method Used:** Closed Cup

**Fire Fighting Extinguishing Media:** Carbon dioxide, foam, dry chemical, water spray.

**Fire Fighting Equipment:** Use self-contained breathing apparatus.

**Fire and Explosion Hazards:** Decomposition and combustion products may be toxic.

**SECTION VI: ACCIDENTAL RELEASE MEASURES**

**Accidental Release Measures:** Avoid all personal contact. Take up with absorbent material. Shovel into closable containers.

Flush contaminated area with water.

**SECTION VII: HANDLING AND STORAGE**

**Precautions:** Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use only with adequate

ventilation. Promptly remove wet contaminated non-impervious clothing, wash before reuse.

Destroy contaminated leather and

absorbent shoes. Individuals should wash thoroughly after handling. For industrial use only.

**Storage Information:** Store in sealed containers. Keep container closed to prevent moisture absorption and contamination.

**SECTION VIII: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Personal Protective Equipment:** Wear appropriate equipment to prevent probability of exposure and personal contact.

**Skin Protection:** Wear impervious gloves.

**Respiratory Protection:** Organic chemical cartridge respirator, if needed.

**Eye Protection:** Wear splash-proof chemical goggles or complete face shield.

**Engineering Controls:** Good general mechanical ventilation recommended.

**SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES**

**Color:** Amber

**Odor:** Amine

**Physical State:** Viscous Liquid

**Solubility in Water:** ~ 0.5 % at 25°C (77 °F)

**Vapor Pressure:** < 0.01 mmHg at 20°C (68 °F)

**Specific Gravity:** 0.96 at 25°C (77 °F) (H<sub>2</sub>O = 1)

**Boiling Point:** > 200°C (> 392 °F)

**Decomposition Temperature:** > 200°C (> 392 °F)

**Percent Volatile:** Nil.

**SECTION X: STABILITY AND REACTIVITY**

**Stability:** Stable.

**Incompatibility:** Strong oxidizing agents, acids, natural rubber.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides and compounds.

**Hazardous Polymerization:** Will not occur.

**SECTION XI: TOXICOLOGICAL INFORMATION**

**Acute Oral Effects (LD<sub>50</sub>):** (Rat) Greater than 5,000 mg/kg (polyamide resin).

**Acute Dermal Toxicity (LD<sub>50</sub>):** 800 mg/kg (component).

**Sensitization:** Potential sensitizer - skin and respiratory.

**Skin Irritation:** (Rabbit) Irritant.

**Eye Irritation:** (Rabbit) Severe irritant.

**SECTION XII: ECOLOGICAL INFORMATION**

**Additional Information:** No ecological information available.

**SECTION XIII: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose in accordance with federal, state and local regulations.

**SECTION XIV: TRANSPORT INFORMATION**

**Department of Transportation:** Not regulated.

**SECTION XV: REGULATORY INFORMATION**

**US Federal Regulations:**

**Occupational Safety and Health Act (OSHA):** This Material Safety Data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1910.1200. This product is considered to be a hazardous chemical under that standard.

**Resource Conservation and Recovery Act (RCRA):** Not a hazardous waste under RCRA (40 CFR 261).

**SARA Title III: Section 304 - CERCLA:** Not listed.

**SARA Title III: Section 313 Toxic Chemical List (TCL):** This product does not contain a toxic chemical for routine annual 'Toxic Chemical Release Reporting' under Sec. 313 (40 CFR 372).

**TSCA Section 8(b) - Inventory Status:** Chemical components listed on TSCA Inventory.

**TSCA Section 12(b) - Export Notification:** This product does not contain any chemical(s) that are subject to a Section 12(b) export notification.

**International Regulations:**

**Canadian Inventory Status:** All components included on the Domestic Substances List (DSL).

**State Regulations:**

**California Proposition 65:** This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

**New Jersey Right-to-Know:** The following is required composition information:

Chemical Name: Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

Common Name: Polyamide Resin

CAS Number: 68082-29-1

Chemical Name: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-

Common Name: Triethylenetetramine

CAS Number: 112-24-3

**Pennsylvania Right-to-Know:** The following is required composition information:

Chemical Name: Fatty acids, C18-unsatd., dimers, polymers with tall-oil fatty acids and triethylenetetramine

Common Name: Polyamide Resin

CAS Number: 68082-29-1

Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 1,2-Ethanediamine, N,N'-bis(2-aminoethyl)-

Common Name: Triethylenetetramine

CAS Number: 112-24-3

Comment: Hazardous Substance

**\*\*\*SPECIAL COMMENT REGARDING ALL MATERIALS MANUFACTURED\*\*\***

All information, recommendations and suggestions appearing herein concerning our products are based upon test data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Adhesives and Chemicals, Inc. as to the effects or such use, the results to be obtained, or the safety and toxicity of the product nor does Adhesives and Chemicals assume any liability arising out of use, by others, of the product referred to herein. The information herein is not to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.