



P.O. Box 1007, Katy, Texas 77492

## Advanced Epoxy Systems

### MATERIAL SAFETY DATA SHEET

#### Section I – IDENTITY INFORMATION

**Identity (Tradename):** AES-450 Protective Coating Part A  
**Product Type:** Epoxy Solution  
**Date Revised:** April 10, 2008  
**CHEMTREC Emergency Number 1-800-424-9300**

#### Section II – HAZARDOUS INGREDIENTS

Hazardous Components	CAS #	Occupational Exposure Limits			Vapor Pressure mm Hg @ Temp
		OSHA PEL	ACGIH TLV	OSHA STEL	
Diethylenetriamine	111-40-0	1 PPM	NE	NE	N/A
Triethylenetetramine	112-24-3	NE	NE	NE	N/A
Tetraethylenepentamine	112-57-2	NE	NE	NE	N/A
Trade Secret (Polyamide)		NE	NE	NE	N/A

Carcinogen Status: IARC: Not Reviewed, NTP: Not Reviewed, OSHA: Not Reviewed

#### Section III – PHYSICAL DATA

**Boiling Point:** 282°F (Solvent)      **SP. Gravity (H2O=1):** 0.94  
**Vapor Density:** 3.7 Xylene (Air = 1)      **Evaporation Rate:** .6 Xylene (Butyl Acetate =1)  
**% Volatile:** 11%      **Solubility in water:** Partial  
**Physical State:** Liquid  
**Appearance and Odor:** Amber Liquid, Aromatic Odor

#### Section IV – FIRE AND EXPLOSION HAZARD DATA

**Flash Point:** 80°F-Closed Cup  
**Flammable Limits (LFL/UFL):** 1/7 (Xylene)  
**Extinguishing Media:** Carbon Dioxide, Foam, Dry Chemical, Water Spray  
**Special Fire Fighting Procedures:** Use self-contained breathing apparatus.  
**Unusual Fire and Explosion Hazards:** Decomposition and combustion products may be toxic. Heating forms flammable vapors which may form explosive mixtures with air.

## Section V – REACTIVITY DATA

<b>Stability:</b>	Stable
<b>Incompatibility:</b>	Strong oxidizing agents
<b>Hazardous Polymerization:</b>	Will not occur
<b>Conditions to Avoid:</b>	Excessive heat and open flames.
<b>Hazardous Decomposition Products:</b>	Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides, Aldehydes, and unidentified organic compounds

## Section VI – TOXICOLOGICAL INFORMATION

<b>Primary Routes of Exposure:</b>	Dermal, Inhalation
<b>Acute Oral Effects (LD50):</b>	(Rat) 4,300mg/kg (xylene).
<b>Sensitization:</b>	Potential sensitizer
<b>Acute Dermal Toxicity (LD50):</b>	(Rabbit)>5,000mg/kg (Polyamide resin).
<b>Skin Irritation:</b>	(Rabbit) Moderate irritant
<b>Eye Irritation:</b>	(Rabbit) Severe irritant

## Section VII – FIRST AID MEASURES

**Skin:** Wipe away excess material with dry towel. Wash affected areas with plenty of water and soap for several minutes. Remove contaminated clothing and shoes. Get medical attention if irritation occurs. Discard or decontaminate clothing before re-use and destroy contaminated shoes.

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

**Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Contains organic solvent. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention immediately!

**Inhalation:** Remove to fresh air. Get immediate medical attention if respiratory irritation develops or if breathing becomes difficult.

**Overexposure Effects:** Overexposure to this material can cause skin, eye, and respiratory irritation and allergic skin reaction. Inhalation of vapors from a component in this product cause central nervous system depression, headache, dizziness, loss of balance, coughing, pulmonary edema and liver and kidney damage. Insensitive individuals, cardiac arrhythmia, leading to death, may occur. A component in the product has caused fetal damage following dermal/oral exposure to guinea pigs or rats.

**Medical Conditions Aggravated by Exposure:** allergy, eczema, or skin conditions.

## Section VIII – SPILL OR LEAK PROCEDURES

**Accidental Release Procedures:** Remove all sources of ignition. Provide explosion proof ventilation. Take up on absorbent material. Shovel with non-sparking tools into closable container for disposal. Wear protective equipment specified below. Thoroughly flush contaminated area with water.

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

## Section IX – EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Ventilation:</b>	Explosion proof mechanical ventilation and local exhaust recommended.
<b>Skin Protection:</b>	Wear impervious gloves
<b>Eye Protection:</b>	Wear splash-proof chemical goggles or complete face shield.
<b>Respiratory Protection:</b>	Organic chemical cartridge respirator, if needed.
<b>Other protective Equipment:</b>	Wear appropriate equipment to prevent probability of exposure and personal contact.

**Section X – HANDLING AND STORAGE PRECAUTIONS**

Warning! May cause severe eye irritation. May cause sensitization. Avoid breathing mist or vapor. Do not take internally. Use with adequate ventilation. Wear chemical splash goggles, impervious gloves, and protective clothing when handling. Wash thoroughly after handling. Keep container closed when not in use. Store in dry area in closed containers. For industrial use only. Flammable solution. Keep away from heat, sparks, and open flame.

**Section XI – TRANSPORT INFORMATION**

DOT:

<b>Proper Shipping Name:</b>	Resin Solution	<b>Hazard Class:</b>	3
<b>ID Number:</b>	UN 1866	<b>Packing Group:</b>	PG III
<b>ERG Number:</b>	127		

**Section XII – OTHER INFORMATION**

**OSHA Status:** 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.

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