

## MATERIAL SAFETY DATA SHEET (MSDS)

FIRST ISSUE DATE: June 6, 2003

### Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **X-TEMP-2 Matrix - Hardener - Part B**

MFR'S NAME: Air Logistics Corporation, 925 North Todd Avenue, Azusa CA 91702

EMERGENCY PHONE: 800-424-9300 (CHEMTREC) GENERAL INFORMATION: 626-633-0294

### Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

INGREDIENT	CAS #	EXPOSURE LIMITS	LD50 ORAL	LD50 DERMAL
Triethylenetetramine	112-24-3	TLV/NE - PEL/NE	4.0 g/kg	660 mg/kg
Phenol, 4,4'-(1 methylethylidene)bis	80-05-7	TLV/5 mg/m <sup>3</sup> - PEL/NE	1.1 g/kg	700 mg/kg
Aliphatic tertiary amine	29589-40-0	TLV/NE - PEL/NE	1.3 g/kg (rat)	230 mg/kg (rabbit)

### Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive liquid resin blend that is harmful if swallowed or comes in contact with unprotected eyes or skin, and which gives off vapors that must be avoided. Causes moderate to severe eye irritation. Will give off highly toxic fumes when in contact with hot surfaces or if exposed to fire.

#### POTENTIAL HEALTH EFFECTS:

##### EYE:

- Causes eye irritation.

##### SKIN:

- Can be absorbed through skin. Corrosive to skin and sensitizer.

##### INGESTION:

- May cause gastrointestinal upset, severe irritation. Will cause illness.

##### INHALATION:

- Corrosive to respiratory tract. May cause respiratory tract sensitization.

##### CHRONIC EFFECTS:

- No delayed test data is known.

##### SIGNS & SYMPTOMS:

- Irritation, dizziness, general malaise.

HMIS RATING: HEALTH 3

FLAMMABILITY 1

REACTIVITY 0

PERSONAL PPE C

### Section 4: FIRST AID MEASURES

⇒USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS⇐

##### EYE:

- Immediately flood with water or eyewash. Continue to flush for 30 minutes and obtain emergency medical attention.

##### SKIN:

- Remove contaminated clothing. Wipe away excess. Wash thoroughly with soap & water. Do not use solvents to remove hardener from skin. See physician if irritation develops.

ATTENTION: No representation is made as to the accuracy or correctness of the information contained herein, other than to state that it is presented by this organization in good faith and we believe it to be correct and accurate per the limits of our understanding and training as of the date of first publication. The user or handler of this product is warned to take the most conservative and safest interpretation possible of all information contained herein and to use the most extreme personal protection measures and exposure limitations prudently dictated by the specific usage or handling situation, this MSDS information and good industrial safety and hygiene practices.

**INGESTION:**

- Do NOT induce vomiting. Keep victim quiet & warm. If fully conscious, try to give victim 8-24 ounces of water, while getting emergency medical attention.

**INHALATION:**

- Remove victim from exposure area. Give breathing support if required. Get medical attention if any irritation or other ill effects develop.

**Section 5: FIRE FIGHTING MEASURES**

FLASH POINT: >100°C Open Cup UEL/LEL: n.d.a. VAPOR DENSITY: n.d.a.  
NFPA FLAMMABILITY RATING: Combustible Liquid AUTOIGNITION: n.d.a.  
SPECIAL HAZARDS: Burning may cause extra health and safety risks. High temperature will cause combustion.  
EXTINGUISHING MEDIA: Foam, Water fog, dry chemical, carbon dioxide.  
FIRE FIGHTER INSTRUCTIONS: Stay upwind. Wear at least full bunker gear and SCBA.

**Section 6: ACCIDENTAL RELEASE MEASURES**

Ventilate area. Contain leak. Absorb with sand. Pick up with non-sparking tools & place in sealed containers. Spills >9,000 pounds may require release reporting. Local reporting threshold may be lower.

**Section 7: HANDLING AND STORAGE**

Do not leave containers in the sun. Always wear personal protective equipment. (Section 8, below.) Wash thoroughly after handling. Never eat or smoke around product. Do not breath vapors or mists. Do not get on body. Do not wear contaminated clothing.

Store in original sealed containers in a cool, dry ventilated storage area.

**Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION**

For Personal Exposure Limits (PEL), Threshold Limit Values (TLV) or other exposure limits, see Sec. 2.  
GENERAL: Provide power ventilation that will keep airborne concentration below exposure limits.  
EYE/FACE: Chemical splash goggles, or equivalent.  
SKIN: Full body chemical splash cover. Impervious plastic or rubber gloves.  
RESPIRATORY: If exposure limits of Sec. 2 may be exceeded, full face supplied air respirator or full face NIOSH approved.  
OTHER: Wash thoroughly after handling. Never eat or smoke around product. Do not breath vapors or mists. Do not get on body. Do not wear contaminated clothing or footwear.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Darkish amber liquid ODOR: fishy SPECIFIC GRAVITY: .98  
PHYSICAL STATE: liquid pH: 8 VAPOR PRESS: <1.0 mm Hg at 20°C  
VAPOR DENSITY: Heavier than air MELT PT: N/A  
SOLUBILITY IN H<sub>2</sub>O: completely

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### **Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable, will react with strong oxidizing agents.

INCOMPATIBILITY: Strong acids, bases, and oxidizers.

HAZARDOUS POLYMERIZATION: Will autopolymerize at very high temperatures only.

HAZARDOUS DECOMPOSITION: Fumes, nitrogen oxides, carbon monoxide, acrid smoke.

CONDITIONS TO AVOID: high heat, amines, strong, oxidizers, acids, and bases.

### **Section 11: TOXICOLOGICAL INFORMATION**

n.d.a.

### **Section 12: ECOLOGICAL INFORMATION**

n.d.a.

### **Section 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable laws and regulations.

### **Section 14: TRANSPORT INFORMATION**

DOT CLASSIFICATION: Hazardous.

DOT SHIPPING NAME: Triethylenetetramine, 8, UN2259, PGII

REQUIRED LABEL: Corrosive

TCSA: Components of this product are listed on the EPA/TCSA inventory of chemical substances.

SARA/TITLE III: Section 311/312 – Acute Health      Section 313 Listed Chemicals - None

### **Section 15: REGULATORY INFORMATION**

See Section 14.

END OF MSDS