**SECTION 1 - IDENTIFICATION**

**PRODUCT (TRADE) NAME:** Epoxy Curing Agent

**CHEMICAL FAMILY:** Amine

**TRADE NAME SYNONYMS:** Tetraethylenepentamine Blend

**SUPPLIER:** OMEGA ENGINEERING, INC.
P.O. BOX 4047
STAMFORD, CT 06907

**TELEPHONE:** (203) 359-1660

**SHIPPING NAME (UN NUMBER PER TRANSPORTATION AUTHORITY):** N/A

**EMERGENCY RESPONSE TELEPHONE NUMBERS:**
(800) 255-3924  (813) 979-0626

* OMEGA Part No. 0-88-3B

**SECTION 2 - HAZARDOUS INGREDIENTS**

<table>
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<th>Hazardous Ingredients/Identity Information</th>
<th>%</th>
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<tr>
<td>Tetraethylenepentamine</td>
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<td>Aminoethyltriethylenetramine</td>
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<td>31295-46-2</td>
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<tr>
<td>Aminoethylpiperazinylethylethenediamine</td>
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**SECTION 3 - PHYSICAL DATA**

- **BOILING POINT (°F):** 482
- **MELTING POINT (°F):** N/A
- **SPECIFIC GRAVITY (H2O = 1):** 0.989–0.995
- **VAPOR PRESSURE (mm Hg):** <1 @ 20°C
- **PERCENT VOLATILE BY VOLUME (%):** 100
- **VAPOR DENSITY (Air = 1):** 6.53
- **EVAPORATION RATE (Ethyl ether = 1):** <0.001
- **SOLUBILITY IN WATER:** Completely miscible
- **MATERIAL AT NORMAL CONDITION:** Liquid
- **EXPANSION RATIO (LIQUID TO GAS):** N/A
- **VIScosity:** 5–10 cps
- **APPEARANCE AND ODOR:** Amber liquid with an amine odor.

**SECTION 4 - FIRE AND EXPLOSION HAZARD DATA**

- **FLASH POINT:** >310°F
- **FLASH POINT (METHOD USED):** N/A
- **FLAMMABILITY LIMITS IN AIR (% BY VOL):** LOWER: N/A UPPER: N/A
- **EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide

***SPECIAL FIRE FIGHTING PROCEDURES***

If not leaking, keep exposed containers cool with water spray to prevent rupture. High-pressure water may spread product from broken containers, increasing contamination or fire hazard. Prevent human exposure to fire, smoke, fumes, or combustion products; evacuate non-essential personnel. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing.

**UNUSUAL FIRE AND EXPLOSION HAZARD: N/A**

**SECTION 5 - HEALTH AND HAZARD DATA**

**THRESHOLD LIMIT VALUE:** N/A

**UNUSUAL CHRONIC TOXICITY:** N/A

**CARCINOGENICITY:** N/A

**ROUTES OF EXPOSURE:** Principally skin contact and inhalation of vapors.

**EFFECTS OF OVEREXPOSURE:** Inhalation can cause respiratory irritation, dizziness, and respiratory failure. Prolonged skin contact can cause dermatitis and severe burns. Ingestion may produce abdominal pain, diarrhea, depression, and convulsions.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** N/A

**EMERGENCY AND FIRST AID PROCEDURES**

- **EYE CONTACT:** Immediately flush with large amounts of water for 15 minutes. Hold eyelids apart to assure a thorough flushing. Do not attempt to neutralize any chemical. Obtain medical attention as soon as possible.
- **SKIN CONTACT:** Flush affected areas with water for 15 minutes. Remove any contaminated clothing or shoes. Wash or discard clothing. Seek medical attention if irritation develops.
- **INHALATION:** Remove from area. Seek medical attention if breathing is difficult. Oxygen may be delivered upon the advice of a physician. If not breathing, give artificial (mouth-to-mouth) respiration.
- **INGESTION:** Do not induce vomiting. Give several glasses of water. If vomiting occurs, give more fluid. Have physician determine if condition of patient will permit evacuation of stomach.
SECTION 6 - REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Excess heating over long periods of time can degrade resin (can autoignite at 572°F).

INCOMPATIBILITY (MATERIALS TO AVOID): Amines, oxidizing agents, strong bases.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: May occur with excess of hardener.

CONDITIONS TO AVOID: Excess hardener.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Anyone entering an area with high vapor content should use a self-contained air pack. Soak up liquid with a suitable absorbent, such as sawdust, clay, or oil absorber. Sweep up absorbed material and place in a chemical waste drum for disposal. Wash up area with detergent and water and flush area with water. Large spills should be diked and pumped into a drum for salvage or disposal. Residual may be removed with non-flammable solvents, such as methylene chloride.

WASTE DISPOSAL METHOD: Material that cannot be used should be disposed of in an EPA-authorized facility. Dispose of empty containers according to applicable regulations under the Resource Conservation and Recovery Act.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If adequate ventilation is not available and vapor is being generated, use NIOSH-approved organic vapor respirators. If a higher level of protection is needed, a positive pressure air supply respirator is recommended.

VENTILATION: General mechanical ventilation is suggested in a closed area; local exhaust may be necessary for some operations.

PROTECTIVE GLOVES: Plastic or rubber gloves.

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: Protective apron/coveralls.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Containers should be stored in a cool, dry, well-ventilated area remote from flammable materials and sources of heat. Exercise caution to prevent damage to or leakage from containers.

VALVE CONNECTION: N/A

OTHER PRECAUTIONS: Use good hygienic practices. Remove and destroy contaminated clothes. Non-corrosive to steel. Some plastics may swell under exposure to material.

** SECTION NOTES **

HMIS RATING:

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<tr>
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<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
<th>SPECIAL HAZARDS</th>
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NPFA RATING:

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