

1. MATERIAL IDENTIFICATION

Product Name: Epoxy Hardener Product # AB9112 Hardner

Emergency Phone: For emergencies involving spill, leak, fire, or accident call CHEMTREC at (800) 424-9300. For all other inquiries call American Fiber Optic Technologies (757)-306-3305.

2. COMPOSITION

Exposure limits

Hazardous Components	CAS No.	Percent	ACGIH TLV-TWA	OSHA PEL
Aliphatic Amine Mixture	Proprietary	< 100	N.E.	N.E.

Abbreviations: N.E. =Not established

3. HEALTH HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eyes: Yes Skin: Yes Inhalation: Yes

Eye Contact: Corrosive. May cause burns and permanent injury including blindness. May cause conjunctivitis and corneal edema when absorbed into the tissue of the eye from the atmosphere.

Skin Contact: Corrosive. May cause dermatitis, sensitization, and deep burns. May be harmful or fatal if absorbed through the skin.

Inhalation: May cause damage and severe irritation

Ingestion: Corrosive. May cause severe gastric disturbances and possibly fatal damage.

Other: Asthma, chronic respiratory diseases, eye diseases, and skin disorders may be aggravated by exposure to this product.

4. FIRST AID MEASURES

Eyes: Flush eye thoroughly with water, for 15 minutes, while holding eyelids open. Seek immediate medical attention.

Skin: Remove contaminated clothing, wipe excess from skin, and flush the affected area with water for at least 15 minutes. Do NOT apply greases or ointments. Wash contaminated clothing thoroughly before reuse. Contaminated leather articles, such as shoes, cannot be decontaminated and should be destroyed. Seek immediate medical attention.

Inhalation: Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain immediate medical attention.

Ingestion: Do NOT induce vomiting. Give 3 to 4 glasses of water or milk unless the victim is drowsy, convulsing, or unconscious. Obtain immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

Flash Point:	>200°F estimated
Explosive Limits:	Not determined
Auto-Ignition Temperature:	Not determined
Hazardous Decomposition Products:	Carbon monoxide, Nitrogen oxide, ammonia, and Nitrosamines

EXTINGUISHING MEDIA and FIRE FIGHTING INSTRUCTIONS

When sufficiently large quantities are present, firefighters should be equipped with full bunker gear, including a positive pressure, NIOSH approved, self-contained breathing apparatus.

Extinguishing Media: Use water or "alcohol" foam.

6. ACCIDENTAL RELEASE MEASURES

Ventilate the spill area, and evacuate if necessary. Shut off the source of the leak if it is safe to do so. Remove all ignition sources. Dike and contain large spills. Absorb with a suitable material and dispose of properly.

Clean-up personnel should use adequate protective equipment, including respiratory protection.

7. HANDLING AND STORAGE

Store in a cool, dry place. Keep away from ignition sources and high temperatures. Avoid contact with incompatible materials. Nitrosamines, many of which are known to be potent carcinogens, may be formed when this product comes in contact with nitrous acid, nitrates, or concentrated nitrous oxides.

Wear protective eyewear, chemical-resistant gloves, and other protective clothing as appropriate.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering / Ventilation Controls:	General Ventilation may be acceptable under most conditions, although local ventilation is required to control exposure whenever vapors, mists, or dusts are generated. Eye wash stations should be readily available.
Respiratory Protection:	When local ventilation is unavailable and airborne limits are exceeded a NIOSH-approved respirator for organic vapors, a supplied-air respirator or a self-contained breathing apparatus is required.
Skin Protection:	Impervious gloves and protective clothing should be worn as necessary.
Eye Protection:	Chemical splash goggles or safety glasses with side shields should be worn as appropriate.

9. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions and use.

Conditions and
Materials to Avoid: Keep away from ignition sources and high temperatures. Reacts with acids, oxidizing agents, metals that are prone to corrosion and sodium or calcium hypochlorite. Nitrosamines, many of which are known to be potent carcinogens, may be formed when this product comes in contact with nitrous acid, nitrates, or concentrated nitrous oxides.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, nitric acid, ammonia, and nitrosamines.

Hazardous Polymerization: Will not occur.

10. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / State:	Dark colored liquid	Boiling Point:	Not determined
Odor:	Not determined	Freezing Point:	Not determined
pH:	Not determined	Specific Gravity:	Not determined
Vap. Pressure(mmHG)	Not determined	Solubility in water:	Partial
Vap. Density (=)	Not determined		

11. TOXICOLOGICAL INFORMATION

This product is not known to have undergone toxicological testing.

12. DISPOSAL CONSIDERATIONS

Keep out of surface water, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with applicable federal, state, and local environmental control regulations.

13. TRANSPORTATION INFORMATION

DOT/IATA Proper shipping Name: Amines, Liquid Corrosive, N.O.S.
Hazard Class: B Packing Group: III ID: UN2735 Label: Corrosive

For UN2735 (Corrosive, amine.) Hazard Class 8(corrosive materials), Packing group II, not hazardous under 4.0 liters per outer package

14. REGULATORY INFORMATION

TSCA

The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required.

SARA TITLE III

Section 313-Toxic Chemicals

Pursuant to Section 313, this product does not contain any chemicals in a concentration equal to or greater than the de *minims* level

Section 311/312- Hazard Categories

Fire Hazard:	No	Immediate (Acute) Health Hazard:	Yes
Reactivity Hazard:	No	Delayed (chronic) Health Hazard:	No
Sudden Release of Pressure Hazard:	No		

NI-PA Hazards:	Health: 2	Flammability: 1	Reactivity: 0
HMIS Hazards:	Health: 2	Flammability: 1	Reactivity: 0