

Material Safety Data Sheet

Revision Date: 2/6/90

NA = Not Applicable NE = Not Established

Section 1. General Information

Product name: **IPANOL HI MOD – EPOXY HARDENER – Component B**Product I.D.: **LVHM HARDENER – Component B** (Low-Viscosity High Modulus)

Chemical Family: Modified Aliphatic Amine

DOT Hazard Class: Alkaline (Corrosive) Material

DOT Shipping Name: Alkaline Liquid N.O.S. (Diethylene triamine)

DOT UN Number: NA 1719

Manufacturer: **IPA Systems, Inc.**

2745 North Amber Street, Philadelphia, Pa. 19134

Phone: 800-523-3834 • 215-425-6607

Fax: 215-425-6234

E-mail: info@ipasystems.com

Website: www.ipasystems.com

Emergency Phone Number - Chemtrec: 800-424-9300

Section 2. Hazardous Ingredients

<u>Name:</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>OSHA TWA ppm</u>	<u>ACGIH TWA ppm</u>
Polyethylene polyamine and modified polyethylene polyamine adduct with epoxy and fatty acid	**	> 80	NE	NE
Diethylene triamine (DETA)	111-40-0	**	1	1*
Bisphenol-A	80-05-7	< 10	NE	NE

* Potential contribution to overall exposure is possible via skin absorption.

** The specific chemical identity and/or composition is being withheld as a trade secret.

Section 3. Physical Data

Boiling Point (F): NE

Specific Gravity (H₂O = 1): 1

Vapor Pressure (mm Hg.): < 0.1 at 20°C

Percent Volatile by Volume: < 1.0

Vapor Density (Air = 1): > 1

Evaporation Rate (BAc = 1): < 1

Solubility in Water: Partially soluble

pH: NA

Volatile Organic Compounds: NA

Appearance and Odor: Clear amber mobile liquid; amine odor

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Section 4. Fire and Explosion Hazard Data

Flash Point: >200°F Setflash

Flammable Limits: LEL = 1.4 est. UEL = NE

Autoignition Temperature: NE

Extinguishing Media: Small fires: Carbon Dioxide or Dry Chemical. Large fires: Aqueous Foam or Water

Special Fire Fighting Procedures: Remove all ignition sources. Firefighters should wear self-contained breathing apparatus and complete personal protective equipment when entering confined where there is the potential for exposure to vapors or products of combustion.

Unusual Fire and Explosion Hazards: High temperatures may cause closed containers to rupture due to build-up of pressure.

Section 5. Health Hazard Data

Carcinogen – NTP Program: No

Carcinogen – IARC Program: No

Emergency and First Aid Procedures:

Eye Contact: Immediately flush eyes with large amounts of water for 15 minutes. Get medical attention immediately.

Skin Contact: Remove contaminated clothing. Immediately wash skin with soap and water for 15 minutes.

Inhalation: In case of exposure to high concentration of vapor or mist, remove person to fresh air. If not breathing, give artificial respiration and get medical attention. If breathing is difficult, get medical attention immediately.

If swallowed: If appreciable quantities are swallowed, get medical attention.

Symptoms:

Eye Contact: Contains materials that may cause chemical burns in eyes – damage is irreversible.

Skin Absorption: Contains materials that may be slightly toxic.

Skin Contact: Contains materials that may cause chemical burns on skin. Sensitizer – may cause allergic skin reaction that can be severe in certain individuals.

Ingestion: Slightly toxic – LD50 < 3 g/kg.

Inhalation: Contains materials that could cause headaches, nausea, dizziness and respiratory irritation if inhaled. Sensitizer – may cause allergic respiratory reaction.

Chronic Effects of Overexposure: No specific information available. Contains polyethylene polyamines which are reported to cause liver and kidney damage on repeated overexposure.

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Section 6. Reactivity Data

Stability: Stable

Conditions to Avoid: Excessive heat

Incompatibility (Materials to Avoid Contact): Contamination with strong acids, bases, epoxy resins or isocyanates can cause polymerization.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Fumes produced when heated to decomposition may include: Carbon monoxide, carbon dioxide, oxides of nitrogen.

Section 7. Procedures for Safe Handling and Use

Spill Response: Dike spill. Absorb with inert material and collect for disposal. Flush area with water. Keep washings out of surface waters, sewers and waterways entering or leading to surface waters.

Waste Disposal Method: Incinerate or use biological treatment in accordance with federal, state and local regulations. This material is not defined as a hazardous waste under current RCRA regulations.

Section 8. Control Measures

Eye Protection: Avoid eye contact. Wear chemical splash goggles.

Skin Protection: Wear impervious gloves (neoprene) when contact can occur. Coveralls, apron and rubber foot covering are recommended.

Ventilation: Local exhaust recommended to control exposure. Mechanical ventilation not recommended as the sole means of controlling exposure.

Respiratory Protection: Use a properly fitted MSHA/NIOSH approved respirator whenever exposure to vapors or mists above applicable limits is likely.

Prevention of Accidental Ingestion: Wash hands after handling and before eating.

Other Protective Equipment: For operations where contact can occur, use a face shield, impervious body covering and rubber boots. A safety shower and eye wash facility should be available.

Section 9. Special Precautions

Hygienic Practices in Handling and Storage: Avoid contact with skin and eyes. Keep container closed when not in use. Remove all contaminated clothing, shoes, belts and other leather goods immediately. Incinerate leather goods (including shoes). Wash contaminated clothing thoroughly before reuse. Wash exposed skin areas thoroughly with soap and water immediately after handling.

Precautions for Repair and Maintenance of Contaminated Equipment: Wash mixing equipment with water.

Other Precautions: Store product at temperatures below 120°F. Keep from freezing.

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Section 10. Regulatory Information

State R-T-K Composition Information:

<u>Component</u>	<u>C.A.S.#</u>	<u>Wt. %</u>	<u>Pennsylvania</u>	<u>Massachusetts</u>	<u>Canada</u>
Diethylene triamine (DETA)	111-40-0	**	Yes	Yes	Yes
Bisphenol-A	80-05-7	< 10	Yes	No	Yes

** This information is being withheld as a trade secret.

SARA / Title III Section 313 – Toxic Chemicals List:

<u>Component</u>	<u>C.A.S.#</u>	<u>Wt. %</u>
Bisphenol-A	80-05-7	< 10

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Toxic Substances Control Act (TSCA):

All ingredients of this product are listed on the TSCA inventory.

California Proposition 65 Information:

This product does not contain any California Proposition 65 chemicals.

The information of this data sheet represents our current and best opinion as to the proper use and handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.