HAMMERHEAD®

SAFETY DATA SHEET — *EXTENDED HARDENER*

DATE: 03/26/2015
SUPERCEDES: 02/02/2015

PRODUCT NAME: HYDRALINER EXTENDED EPOXY HARDENER

CHEMICAL FAMILY: Aliphatic Amines

SECTION 1 – IDENTIFICATION

MANUFACTURER'S NAME: HAMMERHEAD TRENCHLESS EQUIPMENT

ADDRESS: 500 SOUTH CP AVENUE, LAKE MILLS, WI 53551

INFORMATION PHONE: 920-648-4848

EMERGENCY CONTACT: (CHEMTREC): **800-424-9300**

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Corrosive epoxy hardener. Certain individuals may have pre-existing skin or respiratory conditions causing a sensitivity or allergy which manifests as various reactions. Heating or spraying this product or the mixed parts increases potential health hazards. Health and Safety personnel should examine the handling procedures and remedy any existing or potential health and safety hazards.

POTENTIAL HEALTH EFFECTS:

EYE:
- Can cause irritation. Significant, prolonged, or repeated contact can damage the cornea.

SKIN:
- Can cause irritation. Significant, prolonged, or repeated exposure can cause severe irritation.

INGESTION:
- Can inflame or damage the G.I. tract. Ingestion can be harmful.

INHALATION:
- Can cause irritation. Significant, prolonged, or repeated exposure to mist or vapor can damage the respiratory system.

CHRONIC EFFECTS:
- Repeated exposure can cause irritation and sensitization.

SIGNS & SYMPTOMS:
- Skin rash, irritation, reddening, or eczema; Breathing irritation or difficulty.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	%	CAS #	EXPOSURE LIMITS
Isophoronediamine	<30	2855-13-2	N/E
Polyetheramine Blend	>60	Mixture	N/E

SECTION 4 – FIRST-AID MEASURES

♦USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS♦

EYE:
- Hold eyelids apart and flood with copious amounts of water. Seek medical attention.

SKIN:
- Remove excess product. Wash thoroughly with soap and water. If irritation persists, seek medical attention.

INGESTION:
- Do not induce vomiting unless directed by medical personnel. Seek medical attention.

INHALATION:
- Remove to fresh air. Seek medical attention.

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SECTION 5 – FIRE-FIGHTING MEASURES

FLASH POINT: >200°F UEL: N.D.A.% LEL: N.D.A. VAPOR DENSITY: N.D.A.
NFPA FLAMMABILITY RATING: 1 AUTOIGNITION: N.D.A.
COMBUSTION PRODUCTS: CO, CO_2, NO_x, & misc. hydrocarbons
SPECIAL HAZARDS: Firefighters should wear butyl rubber boots, gloves, and body suit with SCBA. May generate toxic and irritating combustion products. Use DOT Response Guide #153.
EXTINGUISHING MEDIA: Use foam, CO_2, dry chemical, water fog.
FIRE FIGHTER INSTRUCTIONS: Stay upwind. Wear at least full bunker gear and SCBA.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Isolate spill area. Keep out of sewers and storm drains. Stop the leak and contain the spill. Vacuum, scoop, or absorb spill with non-combustible materials. Clean up spill residue with soap and water.

SECTION 7 – HANDLING AND STORAGE

Avoid skin and eye contact and breathing vapors by appropriate measures. Do not eat or smoke while handling this product. Wash thoroughly with soap and water after handling or exposure to this product.

Store in original sealed container at ambient temperatures (50°-100°F) in dry, well-ventilated areas.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

For Personal exposure Limits (PEL), Threshold Limit Values (TLV), or other exposure limits, see Sec. 3.
GENERAL: Provide adequate ventilation that will keep airborne concentration at a minimum.
EYE/FACE: Safety glasses or splash goggles with face shield.
SKIN: Chemical resistant gloves. Don chemical resistant clothing where exposure may occur.
RESPIRATORY: Provide well ventilated, laminar flow work area to insure vapor concentration is kept to a minimum. Where adequate laminar flow ventilation is not possible, use NIOSH approved respirator with organic vapor/HEPA filter cartridges. Supplier recommends less than 10ppm vapor in workplace.
OTHER: Decontaminate or discard clothing and materials that have come in contact with this product.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear-amber	ODOR: amine	PHYSICAL STATE: liquid
VAPOR PRESS: N.D.A.	SPECIFIC GRAVITY: .96 pH: alkaline	
BOILING PT: N.D.A.	MELT PT: N/A	SOLUBILITY IN H_2O: slightly

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Strong oxidizers, acids, epoxy resins in uncontrolled conditions; contact with other unpolymerized monomers or polymers.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: None known, other than Sec. 5's Combustion Products.

SECTION 11 – TOXICOLOGICAL INFORMATION

Oral: N.D.A.
Dermal: N.D.A.
Inhalation: N.D.A.
Carcinogens under OSHA, ACGIH, NTP, IARC, or Other: None ≥0.1%

SECTION 12 – ECOLOGICAL INFORMATION

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N.D.A.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable federal, state, and local laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

DOT: UN 2289, ISOPHORONEDIAMINE, 8, PGIII.
IATA: Regulated.
IMO: UN 2289, Isophoronediamine, 8, PG III

SECTION 15 – REGULATORY INFORMATION

OSHA: 1910.1200 Hazardous Chemical “Corrosive”, “Sensitizer”.
TSCA: Contains listed ingredients.
SARA III: Sec311 & 312 Immediate Health Hazard; Sec313 Chemicals above de minimus level: None.
CA PROP. 65 NOTICE: None
NFPA: HEALTH 3 FIRE 1 REACTIVITY 0 OTHER N/A

WHMIS: Hazard Classification: Class D Division 2A, Class D Division 2B, Class E Corrosive.
WHMIS Symbols: Corrosive, Stylized T.
Trade Secrets: N/A.
Hazardous Products Act Information: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).

SECTION 16 – OTHER INFORMATION

03/26/2015 Change to SDS format. Supercedes 02/02/2015.

ABBREVIATIONS: N/A = not applicable; N.D.A. = no data available; NE = not established

Disclaimer: The data set forth in this sheet are based on information provided by the suppliers of the raw materials and chemicals used in the manufacture of the aforementioned product. HammerHead Trenchless Equipment makes no warranty with respect to the accuracy of the information provided by their suppliers, and disclaims all liability of reliance thereof.