

MATERIAL SAFETY DATA SHEET (MSDS)

FIRST ISSUE DATE: 11 August 2000

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **439 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
isophoronediamine	2855-13-2	TLV - N.E. / PEL N.E.
Phenol,4,4-(1 methylethylidene) bis- modified amine reaction product	80-05-7 trade secret	TLV 10 mg/m ³ / PEL 15 mg/m ³ N.E.

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A liquid epoxy hardener solution that is tissue-corrosive and will cause eye damage on contact; may cause skin damage; and may generate an allergic response in persons that have been previously sensitized to amine hardeners. Vapors, aerosol mists can cause severe eye and respiratory irritation. Severe gastrointestinal damage if swallowed. Once combined with a proper amount of epoxy resin, and cured, the above hazards are eliminated.

POTENTIAL HEALTH EFFECTS:

EYE:

- Damage to eye tissues ranging from irritation to tissue destruction. May be irreversible.

SKIN:

- Damage to skin ranging from minor irritation to chemical burns after prolonged contact.

INGESTION:

- Severe damage to gastrointestinal mucous tissues expected.

INHALATION:

- Vapors or mists may irritate respiratory tract in high enough concentrations.

CHRONIC EFFECTS:

- Allergies, eczema, misc. eye and skin conditions may be aggravated by prolonged contact. Repeated contact could result in some persons becoming sensitized to this product.

SIGNS & SYMPTOMS:

- Redness, itching, irritation, pain, difficulty breathing and/or swallowing.

Section 4: FIRST AID MEASURES

⇒USE APPROPRIATE BLOOD-BORNE PATHOGENS PROTECTIONS←

EYE:

- Immediately flood with eyewash or water. Continue for 15 minutes while getting emergency medical attention.

SKIN:

- Wipe away excess. Wash with soap & water. Get medical attention if symptoms develop.

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INGESTION:

- Do NOT induce vomiting. If victim is conscious, give 1-3 glasses of water to dilute swallowed material. Get emergency medical attention.

INHALATION:

- Move victim to fresh air. Provide breathing support if required. Get medical attention if symptoms develop or person was noticeably affected.

Section 5: FIRE FIGHTING MEASURES

FLASH POINT: >100°C (>212°F) UEL/LEL: N.E. VAPOR DENSITY: heavier than air
NFPA FLAMMABILITY RATING: 1 AUTOIGNITION: n.d.a.
COMBUSTION PRODUCTS: CO, CO₂, NO_x, & misc. hydrocarbons, ammonia.
SPECIAL HAZARDS: Burning will cause extra health and safety risks.
EXTINGUISHING MEDIA: Use foam, CO₂, dry chemical, water fog.
FIRE FIGHTER INSTRUCTIONS: Stay upwind. Wear at least full bunker gear and SCBA.

Section 6: ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain, absorb with inert sorbent, scoop up & place into disposal containers.

Section 7: HANDLING AND STORAGE

Wash thoroughly after handling. Never eat or smoke around product.

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

Section 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

For Threshold Limit Values (TLV) or other exposure limits, see Sec. 2.

GENERAL: Provide ventilation that will keep airborne concentration below exposure limits.

EYE/FACE: safety glasses, minimum.

SKIN: chemical gloves and skin coverage suitable to prevent splash, etc., exposure.

RESPIRATORY: NIOSH-approved chemical cartridge respirator, minimum, if airborne concentration exceeds TLV.

OTHER: Do not wear contaminated clothing or footwear.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: clear amber liquid ODOR: fishy PHYSICAL STATE: liquid
pH: n.d.a. VAPOR PRESS: <0.5mm @ 20°C VAPOR DENSITY: heavier than air
SPECIFIC GRAVITY: 1.02 BOILING PT: n.d.a. MELT PT: N/A
SOLUBILITY IN H₂O: soluble

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Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY: Material is stable with no known conditions to avoid.

INCOMPATIBILITY: oxidizers, halogenated compounds, aldehydes, ketones, acrylates; epoxies in uncontrolled mixtures and large volumes.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None known, other than Sec. 5's Combustion Products.

Section 11: TOXICOLOGICAL INFORMATION

NOT a carcinogen, per NTP, IARC or OSHA.

Section 12: ECOLOGICAL INFORMATION

n.d.a.

Section 13: DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable laws and regulations. Waste is EPA D002-corrosive.

Section 14: TRANSPORT INFORMATION

DOT: Corrosive Liquid, n.o.s. (isophoronediamine mixture); Class 8; UN2289; PG III; corrosive diamond.

IATA: Same; Pkg. Inst. Y818/818/820

Section 15: REGULATORY INFORMATION

OSHA HCS: not listed

DOT 172.101: listed hazardous

CERCLA RQ: not listed

CLEAN AIR 112(b): not listed

TSCA: listed

STORMWATER RUNOFF: not listed

SARA 313: not listed

SARA TPQ: not listed

SARA PRIORITY (PC): not listed

CA PROP. 65: not listed.

RISK MGMT: not listed

RCRA Waste Number: none

VOC %: zero

Section 16: OTHER INFORMATION

NFPA:

HEALTH 3

FIRE 1

REACTIVITY 0

OTHER none

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

END OF MSDS

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