

MATERIAL SAFETY DATA SHEET (MSDS)

FIRST ISSUE DATE: 11 August 2000

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **439S 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	<10	2855-13-2	N.E.
Diethyltoluenediamine	<10	68479-98-1	N.E.
modified amine reaction product	>50	trade secret	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 / TETA. 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.
HMIS RATING: HEALTH 3 REACTIVITY 0 PERSONAL PROTECTION C
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. Corrosive to skin.
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: <0.5 mm Hg @ 20° C	VAPOR DENSITY: <1
SPECIFIC GRAVITY: 1.01	BOILING PT: n.d.a.	MELT PT: N/A
SOLUBILITY IN H ₂ O: 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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