



## **SAFETY DATA SHEET**

Date: June 2015

### **Section #1: PRODUCT AND COMPANY IDENTIFICATION**

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24-Hour Emergency Number: Chemtrec – 1-800-424-9300

Product Identification: Epoxy Hardener, Fast Cure  
Product Name: Part# METS-EPOX-HAR-0xxx

### SECTION 2 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** DANGER! Can burn skin and eyes. Vapors are irritating to the eyes and respiratory tract. May cause allergic skin or respiratory reaction. May be absorbed through skin in harmful amounts. Harmful or fatal if swallowed. May cause harm to the aquatic environment.

**PRIMARY ROUTES OF ENTRY:** SKIN CONTACT EYE CONTACT SKIN ABSORPTION INGESTION

**GHS LABEL INFORMATION:**

PICTOGRAM: 17-Toxic+Corr



**SIGNAL WORD:** DANGER!

**HAZARD LABEL STATEMENTS:**

H302+H312 Harmful if swallowed or in contact with skin  
H314 Causes severe skin burns and eye damage  
H317 May cause an allergic skin reaction  
H330 Fatal if inhaled  
H335 May cause respiratory irritation

**PRECAUTIONARY STATEMENTS:**

P260 Do not breathe vapors/mist.  
P264 Wash all contact areas thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area  
P272 + P363 Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.  
P280 Wear protective gloves/eye protection/face protection.  
P284 Wear respiratory protection.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P303 + P361 + P353 + P313 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention.  
P305 + P351 + P338 + P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.  
P304 + P341 + P342 + P311 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
P301 + P310 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS NUMBER	----- CHEMICAL NAME -----	WT %
28063-82-3	Polyamine	50 - 100%
111-40-0	Diethylenetriamine	20 - 50%

#### SECTION 4 - FIRST AID MEASURES

**EYE CONTACT:** Flush eye with water for 15 minutes. Remove contacts. Get immediate medical attention.

**SKIN CONTACT:** Immediately flush skin with plenty of water. Remove contaminated clothing. Get medical attention. Dispose of contaminated clothing and leather articles in accordance with regulations.

**INHALATION:** If symptoms occur, remove to fresh air. Medical personnel may administer oxygen if breathing is difficult. Seek medical attention if symptoms persist.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** Treat symptomatically.

#### SECTION 5 - FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** ALCOHOL FOAM, CO2, DRY CHEMICAL, FOAM, WATER FOG

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may rupture or explode (due to pressure build-up) when exposed to extreme heat. Irritating and/or toxic gases or fumes may be generated by thermal decomposition or combustion.

**SPECIAL FIREFIGHTING PROCEDURES:** Use NIOSH-approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

#### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** SMALL SPILL -Wear gloves and goggles. See Section 8 for type. Wipe up with rags or wipes. Dispose of in separate closed bags. LARGE SPILL- Wear gloves, boot covers, synthetic apron, and goggles. See Section 8 for type.

**ENVIRONMENTAL PRECAUTIONS:** Prevent entry into drains and/or waterways. Keep off of soil.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Mark area and keep unnecessary personnel away from spill area. Reclaim clean material. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations. Wash spill area with detergent solution or wipe with alcohol-soaked rags. Dispose of all washings and contaminated items in accordance with waste regulations. Contact manufacturer for further instruction if needed.

#### SECTION 7 - HANDLING AND STORAGE

**HANDLING:** Prevent contact with eyes, skin, and clothing. Contaminated clothing and leather articles should be disposed of. If product is heated, process with local ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. DO NOT reuse empty container without commercial clean or recondition. FOR INDUSTRIAL USE ONLY.

**STORAGE:** Store indoors in a cool dry place under ambient conditions. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
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**EXPOSURE LIMITS**

CAS NUMBER	ACGIH		OSHA		SKIN
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	
28063-82-3	N.E.	N.E.	N.E.	N.E.	NO
111-40-0	1 ppm	N.E.	1ppm	N.E.	YES

\*(TD) = Total Dust    \*(RD) = Respirable Dust

CAS NUMBER	OEL		IDLH	OTHER LIMIT (SOURCE)
	8 HR	15 MIN		
28063-82-3	N.E.	N.E.	N.E.	
111-40-0	1 ppm/4.3 mg/m3	N.E.	N.E.	

\*(TD) = Total Dust    \*(RD) = Respirable Dust

**ENGINEERING CONTROLS:** Local exhaust as needed to control vapor or dust levels to below lowest component safe exposure limit.

**PERSONAL PROTECTIVE EQUIPMENT:** Clean clothing to cover skin. Eye wash and safety shower.

**RESPIRATORY PROTECTION:** If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

**SKIN PROTECTION:** Butyl rubber gloves. Nitrile gloves. Supported PVA gloves.

**EYE PROTECTION:** Chemical splash goggles. Face shield.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES
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FLASH POINT (DEG C): 100  
 AUTOIGNITION TEMPERATURE : No Data  
 LOWER FLAMMABILITY/EXPLOSION LIMIT : No Data  
 UPPER FLAMMABILITY/EXPLOSION LIMIT : No Data

PHYSICAL STATE : liquid  
 SPECIFIC GRAVITY : 1.029  
 APPEARANCE : Clear to light yellow  
 ODOR : Acrid ammoniacal  
 ODOR THRESHOLD : No data  
 SOLUBILITY IN H<sub>2</sub>O : Appreciable  
 pH @ 100 % : N/A

BOILING POINT : 220  
 MELTING/FREEZE POINT: No Data  
 VAPOR DENSITY : Heavier than Air  
 VAPOR PRESSURE : No Data  
 EVAPORATION RATE : Is slower than n-Butyl Acetate  
 PARTITION COEFFICIENT (log Pow): No Data

SECTION 10 - STABILITY AND REACTIVITY
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**CHEMICAL STABILITY:** This product is stable under normal conditions.

**INCOMPATIBILITY/MATERIALS TO AVOID:** Strong bases or oxidants. Strong Lewis or mineral acids. N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Reaction with epoxy resins in large amounts or under uncontrolled conditions releases considerable energy and may release acrid or harmful fumes.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon. Toxic nitrogenous oxides.

**HAZARDOUS REACTIONS:** Will not occur under normal conditions.

**CONDITIONS TO AVOID:** This product is stable under normal storage conditions.

#### SECTION 11 - TOXICOLOGICAL PROPERTIES

##### COMPONENT TOXICOLOGICAL INFORMATION

----- CHEMICAL NAME -----	----- TEST DATA -----
Polyamine	No Information
Diethylenetriamine	Oral- LD50 (Rat) 1,080 mg/kg
	Dermal- LD50 (Rabbit) 1,090 mg/kg
	Inhalation- LC50 (4h): 0.3 mg/l (Rat)

##### ACUTE EFFECTS - EYE:

CORROSIVE. Can cause eye burns and permanent tissue damage. Product vapor can cause lacrimation, conjunctivitis, and corneal edema when absorbed into the tissue of the eye. Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is transient and has no known residual effects.

##### ACUTE EFFECTS - SKIN:

CORROSIVE. Contact may cause chemical burns and blistering. May be absorbed through skin in harmful amounts. Experience indicates that direct skin contact is the route of exposure most likely to cause sensitization. Once sensitized, an individual may react even to airborne levels below the TLV with the following symptoms; itching and tingling of the earlobes and neck, rash, hives, swelling of the arms and legs or other symptoms common to allergic dermatitis. These symptoms may be immediate or may be delayed several hours.

##### ACUTE EFFECTS - INHALATION:

Can cause severe respiratory irritation. This product contains a component that is toxic by inhalation when aerosolized or sprayed. Prolonged or very high overexposure may cause burns to the mucous membranes with severe pneumonitis. Potential respiratory sensitizer.

##### ACUTE EFFECTS - INGESTION:

Harmful or fatal if swallowed. CORROSIVE; may cause severe and permanent damage to mouth, throat, and stomach.

**CHRONIC OVEREXPOSURE/OTHER INFORMATION:** \*Preexisting pulmonary and dermatological conditions may be aggravated by exposure to hazardous components.

\*Diethylenetriamine - studies suggest that chronic overexposure and/or systemic toxicity effects are targeted at the liver and kidneys.

#### SECTION 12 - ECOLOGICAL INFORMATION

##### COMPONENT ECOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	----- TEST DATA -----
Polyamine	No Information
Diethylenetriamine	LC50 (96h): 1,014 mg/l Species: Guppy

##### SUMMARY OF ECOLOGICAL INFORMATION:

**BIOACCUMULATION POTENTIAL:** No information indicating bioaccumulation

**PERSISTENCE AND DEGRADABILITY:** No information indicating persistence or degradability

**AQUATIC TOXICITY:** No information

#### SECTION 13 - DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. For small amounts, mix resin and hardener according

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures. For small amounts, mix resin and hardener according to product directions and allow to harden. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit. Material "as sold" is not regulated as a hazardous waste under federal RCRA regulations. DO NOT landfill free liquid. Fuels blending or incineration of free liquid recommended if permitted.

**SECTION 14 - TRANSPORTATION INFORMATION**

INTERNATIONAL SHIPPING NAME: Polyamines, Liquid, Corrosive, nos (Diethylenetriamine)  
ID NUMBER: UN2735  
PACKING GROUP: III  
PRIMARY HAZARD CLASS: 8  
HAZARD SUBCLASS: N/A  
INTERNATIONAL EMS NO: 8L  
NA EMERGENCY RESPONSE GUIDE NO: 153

**SECTION 15 - REGULATORY INFORMATION**

**CALIFORNIA PROPOSITION 65 STATEMENT:** NONE

**SARA SECTION 311 HAZARD CATEGORY:**

This product has been reviewed, and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD

**SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES PRESENT ABOVE REPORTING LIMITS:**

----- CHEMICAL NAME -----  
None

**SARA SECTION 313:**

This product contains the following substances subject to the reporting requirements of Section 313 and 40 CFR part 372:

----- CHEMICAL NAME -----  
None

**TOXIC SUBSTANCES CONTROL ACT:**

COMPONENTS SUBJECT TO SECTION 4 TESTING/SNUR: None

SECTION 8 INVENTORY: The chemical substances in this product are on the TSCA Section 8 Inventory.

SECTION 12(B) EXPORT REPORTING: This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States: none

COMPONENT RCRA CODES: NONE

CERCLA RQ VALUE (MINIMUM): NONE

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: D1B-D2A-E

RoHS SUBSTANCE(S): None added or known to be present.

ODS/MONTREAL PROTOCOL SUBSTANCE(S): None added or known to be present.

REACH Substance(s) of Very High Concern (SVHC): None added or known to be present.

PRODUCT/TOTAL VOC (CALCULATED): 0 grams/ltr

COATING/REGULATORY VOC (less water and exempt solvents - calculated): 0 g/l

N.D. - Not Determined

ACGIH = American Conference of Governmental Industrial Hygienists

OSHA = US Occupational Health and Safety Administration

TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs)

STEL = Short-Term Exposure Limit (15 min)

C = Ceiling Value

PEL = Permissible Exposure Limit

OEL = Occupational Exposure Limit

IDLH = Immediately Dangerous to Life and Health

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