SAFETY DATA SHEET

Date: June 2015

Section #1: PRODUCT AND COMPANY IDENTIFICATION

Lapmaster Wolters, LLC
501 W. Algonquin Road
Mt. Prospect, IL 60056

Telephone: (224) 669-7101 (Office Hours 8:00 a.m. to 5:30 p.m. CST)
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

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>CHEMICAL NAME</th>
<th>WT %</th>
</tr>
</thead>
<tbody>
<tr>
<td>28063-82-3</td>
<td>Polyamine</td>
<td>50 - 100%</td>
</tr>
<tr>
<td>111-40-0</td>
<td>Diethylenetriamine</td>
<td>20 - 50%</td>
</tr>
</tbody>
</table>

### 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

EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>CAS NUMBER</th>
<th>TLV-TWA</th>
<th>TLV-STEL</th>
<th>PEL-TWA</th>
<th>PEL-CEILING</th>
<th>SKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>28063-82-3</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>NO</td>
</tr>
<tr>
<td>111-40-0</td>
<td>1 ppm</td>
<td>N.E.</td>
<td>1 ppm</td>
<td>N.E.</td>
<td>YES</td>
</tr>
</tbody>
</table>

*(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

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 H2O : 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

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

<table>
<thead>
<tr>
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<tr>
<td>Polyamine</td>
<td>No Information</td>
</tr>
</tbody>
</table>
| 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:

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<tr>
<td>Polyamine</td>
<td>No Information</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>LC50 (96h): 1,014 mg/l Species: Guppy</td>
</tr>
</tbody>
</table>

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
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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
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