SECTION I
MANUFACTURER'S NAME
EpoxyMaster
EMERGENCY TELEPHONE NO:
CHEMTREC: 800-424-9300
ADDRESS (Street, City, State and Zip Code)
755 W. Big Beaver Rd., Suite 2020 Troy, MI 48084-4726
CHEMICAL NAME AND SYNONYMS
N/A
TRADE NAME AND SYNONYMS
EM-PATCH (PART A)
CHEMICAL FAMILY
N/A
FORMULA
N/A

SECTION II – HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES</th>
<th>%</th>
<th>TLV (UNITS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biphenyl A/Epichlorohydrin Based Epoxy Resin (CAS# 25068-38-6)</td>
<td>&gt;1</td>
<td>N/A</td>
</tr>
<tr>
<td>Oxirane, mono[(C12-14-alkyloxy)methyl] derivates (CAS# 68069-97-2)</td>
<td>&gt;1</td>
<td>N/A</td>
</tr>
<tr>
<td>Oxirane, mono[(C12-13-alkyloxy)methyl] derivates (CAS# 012547-52-6)</td>
<td>&gt;1</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT °F</td>
<td>200+</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O = 1)</td>
<td>1.13</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm. Hg. @ 20°C)</td>
<td>0.09</td>
</tr>
<tr>
<td>PERCENT VOLATILE BY VOLUME (%)</td>
<td>0</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>heavier</td>
</tr>
<tr>
<td>EVAPORATION RATE (=1) N-Butyl Acetate</td>
<td>slower</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>negligible</td>
</tr>
<tr>
<td>PH</td>
<td>N/A</td>
</tr>
</tbody>
</table>

APPEARANCE AND ODOR
Clear to yellow viscous liquid with characteristic acrylate odor.

SECTION IV – FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT (Method Used)</td>
<td>200°F (Setaflash)</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS</td>
<td>LeL</td>
</tr>
<tr>
<td>Not</td>
<td>Determined</td>
</tr>
</tbody>
</table>

EXTINGUISHING MEDIA
Water Fog, Dry Chemical, Foam, Carbon Dioxide

SPECIAL FIRE FIGHTING PROCEDURES
Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS
High temperatures and fire conditions may cause rapid and uncontrolled polymerization which can result in explosions and the violent rupture of containers.

(Continued on reverse side)
SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
No OSHA/ACGIH limits have been established

PRIMARY ROUTES OF ENTRY
Inhalation  Skin Contact  X  Other (Specify)

EFFECTS OF OVEREXPOSURE
Eyes - moderately irritating. Skin - moderate irritation, prolonged contact may cause blisters, may cause skin sensitization. Inhalation - may cause respiratory tract sensitization/irritation.

EMERGENCY AND FIRST AID PROCEDURE
Eyes - flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation - get medical attention. Skin - flush with water and then wash with soap and water, launder contaminated clothing before reuse - get medical attention if irritation persists. Inhalation - remove to fresh air and assist breathing as necessary - get medical attention. Ingestion - DO NOT INDUCE VOMITING. Rinse out mouth with water, then drink sips of water – get medical attention.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Pre-existing skin and eye disorders may be aggravated. Persons with pre-existing skin or respiratory tract allergies may have an increased chance of allergic reactions to this product.

Carcinogen:  No  NTP  IARC  OTHER

SECTION VI – REACTIVITY DATA

STABILITY
UNSTABLE
STABLE  X

CONDITIONS TO AVOID
Excessive heat

INCOMPATIBILITY (Materials to avoid)
Strong Acids, Bases, Amines, Mercaptans

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of Carbon, Aldehydes, and other organic substances

HAZARDOUS POLYMERIZATION
MAY OCCUR
WILL NOT OCCUR  X

CONDITIONS TO AVOID
None

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate all sources of ignition and ventilate area. Dike area to contain spill. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Wash spill area with detergent solution.

WASTE DISPOSAL METHOD
In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type)
Use NIOSH approved respirator if product has been heated to produce vapors.

VENTILATION
LOCAL EXHAUST
Normal ventilation adequate
MECHANICAL (General)
Normal ventilation adequate

SPECIAL
N/A
OTHER
NA

PROTECTIVE GLOVES
Impervious

EYE PROTECTION
Chemical Goggles

OTHER PROTECTIVE EQUIPMENT
Eyewash and safety shower.

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Avoid contact - wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors - use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources of ignition.

OTHER PRECAUTIONS
Keep Out of Reach of Children

HMIS SYMBOL

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
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</tbody>
</table>

NFPA SYMBOL

<table>
<thead>
<tr>
<th>FIRE</th>
<th>REACTIVITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1 0</td>
<td>SPECIAL</td>
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</tbody>
</table>

NAME

SIGNATURE

TITLE

PREPARATION DATE  February 28, 2015

PHONE NUMBER
CHEMTREC: 800-424-9300

PAGE TWO: EM-PATCH (PART A)
## SECTION I

**MANUFACTURER’S NAME**
EpoxyMaster

**ADDRESS (Street, City, State and Zip Code)**
755 W. Big Beaver Rd., Suite 2020, Troy, MI 48084-4726

**EMERGENCY TELEPHONE NO:**
CHEMTREC: 800-424-9300

## SECTION II – HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENTS</th>
<th>%</th>
<th>TLV (UNITS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Modified Polyethylene polyamine Adducts</td>
<td>&lt;1</td>
<td>N/A</td>
</tr>
<tr>
<td>Diethylenetriamine</td>
<td>&lt;1</td>
<td>N/A</td>
</tr>
<tr>
<td>4,4’-Isopropylidenebisphenol</td>
<td>&lt;1</td>
<td>N/A</td>
</tr>
<tr>
<td>Tetraethyleneephentamine</td>
<td>&lt;1</td>
<td>N/A</td>
</tr>
</tbody>
</table>

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

## SECTION III – PHYSICAL DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT °F</td>
<td>475+</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O = 1)</td>
<td>1.0</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm. Hg.)</td>
<td>0.1</td>
</tr>
<tr>
<td>PERCENT VOLATILE BY VOLUME (%)</td>
<td>0</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>heavier</td>
</tr>
<tr>
<td>EVAPORATION RATE (n-Butyl Acetate =1)</td>
<td>1</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>slight</td>
</tr>
<tr>
<td>PH</td>
<td>11.5</td>
</tr>
</tbody>
</table>

APPEARANCE AND ODOR
Amber liquid with amine odor.

## SECTION IV – FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT (Method Used)</td>
<td>Setaflash</td>
</tr>
<tr>
<td>FLAMMABLE LIMITS</td>
<td>LeL</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
</tr>
</tbody>
</table>

**EXTINGUISHING MEDIA**
Water Fog, Alcohol Foam, Dry Chemical, Carbon Dioxide

**SPECIAL FIRE FIGHTING PROCEDURES**
Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode. Use water spray to keep containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**
Nitrogen Oxides and Nitrogen containing organic material may be released upon combustion may cause lung damage (Pulmonary edema).

(Continued on reverse side)
SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE
700 ppm/H

PRIMARY ROUTES OF ENTRY
Inhalation X Skin Contact X Other (Specify)

EFFECTS OF OVEREXPOSURE
Eyes - vapors and liquid are irritating and corrosive to eyes - prolonged contact may cause blindness. Skin - corrosive to skin may cause sensitization. Inhalation - may be corrosive to upper respiratory tract, may be toxic if inhaled. Ingestion - corrosive to mouth, throat, and stomach.

EMERGENCY AND FIRST AID PROCEDURE
Eyes - flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation - get medical attention. Skin - remove contaminated clothing and flush with water and then wash with soap and water, launder contaminated clothing before reuse - get medical attention. Inhalation - remove to fresh air and assist breathing as necessary - get medical attention. Ingestion - DO NOT INDUCE VOMITING - give one glass of water unless victim is drowsy, convulsing, or unconscious - get medical attention immediately.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
Persons with pre-existing eye, skin, or respiratory disorders.

CARCINOGEN:
NTP IARC OTHER
No

SECTION VI – REACTIVITY DATA

STABILITY
UNSTABLE
STABLE X

CONDITIONS TO AVOID
Excessive heat and open flames

INCOMPATIBILITY (Materials to avoid)
Strong Oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS
Oxides of Carbon and Nitrogen, Nitrogen containing organic compounds

HAZARDOUS POLYMERIZATION
MAY OCCUR
WILL NOT OCCUR X

CONDITIONS TO AVOID
None

SECTION VII – SPILL OR LEAK PROCEDURES

STEPs TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Eliminate all sources of ignition and ventilate area. Use absorbent material to soak up spill. Shovel or sweep into container for disposal. Clean area with detergent solution.

WASTE DISPOSAL METHOD
In accordance with all Local, State, and Federal Regulations.

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type)
Use NIOSH approved respirator in areas where TLV has been exceeded.

VENTILATION
LOCAL EXHAUST
To control TLV SPECIAL N/A
MECHANICAL (General)
To control TLV OTHER N/A

PROTECTIVE GLOVES
Impervious

EYE PROTECTION
Chemical Goggles

OTHER PROTECTIVE EQUIPMENT
Eyewash and safety shower.

SECTION IX – SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
CORROSIVE MATERIAL - avoid contact - wear protective clothing and wash thoroughly after using. Avoid inhalation of vapors or mists - use only with adequate ventilation. Do not take internally. Avoid storage in areas of excessive heat or near sources of ignition.

OTHER PRECAUTIONS
Keep container closed when not in use. Keep Out of Reach of Children

HMIS SYMBOL

| HEALTH | 3 |
| FLAMMABILITY | 1 |
| REACTIVITY | 1 |

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>SEVERE</td>
</tr>
<tr>
<td>3</td>
<td>HIGH</td>
</tr>
<tr>
<td>2</td>
<td>MODERATE</td>
</tr>
<tr>
<td>1</td>
<td>SLIGHT</td>
</tr>
<tr>
<td>0</td>
<td>MINIMAL</td>
</tr>
</tbody>
</table>

NFPA SYMBOL

<table>
<thead>
<tr>
<th>REACTIVITY</th>
<th>TOXICITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

SPECIAL

NAME

SIGNATURE

TITLE

PREPARATION DATE
February 28, 2015

PHONE NUMBER
CHEMTREC: 800-424-9300

PAGE TWO: EM-PATCH (PART B)
**EpoxyMaster®**  
**MATERIAL SAFETY DATA SHEET**  

**MFG CODE #** EM-CPK

---

### SECTION I

**MANUFACTURER’S NAME**  
EpoxyMaster

**EMERGENCY TELEPHONE NO.**  
CHEMTREC: 800-424-9300

**ADDRESS (Street, City, State and Zip Code)**  
755 W. Big Beaver Rd., Suite 2020, Troy, MI 48084-4726

**CHEMICAL NAME AND SYNONYMS**  
N/A

**TRADE NAME AND SYNONYMS**  
EM-PATCH (PART C)

**CHEMICAL FAMILY**  
N/A

**FORMULA**  
N/A

---

### SECTION II – HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES</th>
<th>%</th>
<th>TLV (UNITS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Dioxide (CAS# 7631-86-9)</td>
<td>&gt;1</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

---

### SECTION III – PHYSICAL DATA

<table>
<thead>
<tr>
<th>BOILING POINT °F</th>
<th>N/A</th>
<th>SPECIFIC GRAVITY (H₂O = 1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAPOR PRESSURE (mm. Hg.)</td>
<td>N/A</td>
<td>PERCENT VOLATILE BY VOLUME (%)</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR = 1)</td>
<td>N/A</td>
<td>EVAPORATION RATE ( =1)</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>insoluble</td>
<td>PH</td>
</tr>
</tbody>
</table>

**APPEARANCE AND ODOR**  
Grey granules with no odor.

---

### SECTION IV – FIRE AND EXPLOSION DATA

<table>
<thead>
<tr>
<th>FLASH POINT (Method Used)</th>
<th>FLAMMABLE LIMITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>LeL</td>
</tr>
<tr>
<td></td>
<td>UeL</td>
</tr>
</tbody>
</table>

**EXTINGUISHING MEDIA**  
Use extinguishing media suitable for fighting surrounding fire.

**SPECIAL FIRE FIGHTING PROCEDURES**  
Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**  
None

(Continued on reverse side)
### SECTION V – HEALTH HAZARD DATA

<table>
<thead>
<tr>
<th>Threshold Limit Value</th>
<th>Primary Routes of Entry</th>
<th>Effects of Overexposure</th>
<th>Emergency and First Aid Procedure</th>
<th>Medical Conditions Aggravated by Exposure</th>
<th>Carcinogen: NTP IARC 2A Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mg/m³ (as dust)</td>
<td>Inhalation X Skin Contact Other (Specify)</td>
<td>Eyes - irritation. Inhalation - prolonged or repeated inhalation of dust may cause irritation to nasal and respiratory tracts.</td>
<td>Eyes - flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation - get medical attention. Skin - wash with soap and water. Inhalation - remove to fresh air and assist breathing as necessary - get medical attention.</td>
<td>None Known</td>
<td></td>
</tr>
</tbody>
</table>

### SECTION VI – REACTIVITY DATA

<table>
<thead>
<tr>
<th>Stability</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unstable</td>
<td>X</td>
</tr>
<tr>
<td>Stable</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatibility (Materials to avoid)</th>
<th>Hazardous Decomposition Products</th>
<th>Hazardous Polymerization</th>
<th>Conditions to Avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrofluoric Acid</td>
<td>None</td>
<td>May Occur</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Will Not Occur</td>
<td>None</td>
</tr>
</tbody>
</table>

### SECTION VII – SPILL OR LEAK PROCEDURES

**Steps to be Taken in Case Material is Released or Spilled**
Sweep up and return to container for reuse.

**Waste Disposal Method**
In accordance with all Local, State, and Federal Regulations.

### SECTION VIII – SPECIAL PROTECTION INFORMATION

**Special Respiratory Protection (Specify type)**
Dust mask

**Ventilation**

<table>
<thead>
<tr>
<th>Local Exhaust</th>
<th>Special</th>
<th>Mechanical (General)</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>To control TLV</td>
<td>N/A</td>
<td>To control TLV</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Protective Gloves**
Impervious

**Other Protective Equipment**
Eyewash and safety shower.

**Eye Protection**
Chemical Goggles

### SECTION IX – SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling and Storing**
Avoid inhalation of dust. Do not take internally.

**Other Precautions**
Keep Out of Reach of Children

### HMIS SYMBOL

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
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<td>1</td>
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<table>
<thead>
<tr>
<th>NFPA Symbol</th>
<th>Fire</th>
<th>Reactivity</th>
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<table>
<thead>
<tr>
<th>Special</th>
<th>Slight</th>
<th>Minimal</th>
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<tbody>
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<td>1</td>
<td>2</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Special</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>1</td>
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### NAME

### Signature

### Title

### Preparation Date
February 28, 2015

### Phone Number
CHEMTREC: 800-424-9300

### Page Two: EM-PATCH (PART C)