SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Polymeric Epoxy Primer
PRODUCT DESCRIPTION: Aqueous/solvent blend of epoxy resins and additives

MANUFACTURER’S NAME
JFB Hart Coatings, Inc.

ADDRESS
10210 Werch Drive, Suite 203
Woodbridge, IL 60517

DATE PREPARED: March 2, 2012
SUPERSEDES: None

TELEPHONE NUMBER FOR INFORMATION
(630) 633-6228

EMERGENCY TELEPHONE NUMBER
Infotrac (800) 535-5053   Outside USA (352) 323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: Epoxy resin, pigmented liquid. Keep away from heat and sources of ignition. Contact will cause skin and eye irritation. May cause respiratory irritation.

Potential Health Effects

EYE: Contact causes eye irritation. Corneal injury is unlikely.

SKIN: Contact causes irritation.

INGESTION: Small amounts ingested are not likely to cause injury. Ingestion of large amounts may cause headache, dizziness, diarrhea and general weakness.

INHALATION: Exposure to vapors not likely with good ventilation. High concentrations may be irritating to the respiratory tract; may cause headache, dizziness, nausea, vomiting and malaise.

Chronic Effects / Carcinogenicity
NTP Listed: No  IARC Group 1 or 2A: No  OSHA Regulated: No

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS Registry No.</th>
<th>Percentage (wt/wt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary epoxy resin</td>
<td>Not specified</td>
<td>5 – 12</td>
</tr>
<tr>
<td>1-Methoxy propan-2-ol</td>
<td>107-98-2</td>
<td>1 – 5</td>
</tr>
</tbody>
</table>

OSHA Regulatory Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

SECTION 4 – FIRST AID MEASURES

EYE: Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.

SKIN: Remove contaminated clothing; wash affected area with water for 15 minutes; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting unless directed to do so by medical personnel; never give anything by mouth to an unconscious person; seek medical attention.

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
SECTION 5 – FIRE FIGHTING MEASURES
Product is considered combustible.

EXTINGUISHING MEDIA: Carbon dioxide, water fog, dry chemical, chemical foam
MEDIA NOT TO BE USED: None known
FIRE & EXPLOSION HAZARDS: None
FIRE FIGHTING INSTRUCTIONS: Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released.
HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, fumes, oxides of carbon

SECTION 6 – ACCIDENTAL RELEASE MEASURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Small spills - wash to sanitary sewer with plenty of water. Large spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water. Do not discharge into lakes, ponds, streams or public waters.

SECTION 7 – HANDLING AND STORAGE
HANDLING Keep away from food and drink. Wash hands before eating.
STORAGE Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. Keep this and other chemicals out of reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION
ENGINEERING CONTROLS The use of local exhaust ventilation is recommended. No other special controls are indicated.
RESPIRATORY PROTECTION None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134, CSA Z94.4-93, or European Standard EN 149 for complete regulations.
SKIN PROTECTION Neoprene or rubber gloves with cuffs.
EYE PROTECTION Goggles with side shields; safety eyebath nearby. Refer to 29 CFR 1910.133, CSA Z94.3-M1982, or European Standard EN166.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact.

<table>
<thead>
<tr>
<th>EXPOSURE GUIDELINES</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
</tr>
<tr>
<td>1-Methoxy propan-2-ol</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES
APPEARANCE Viscous liquid; color may vary
ODOR Characteristic odor
MATERIAL SAFETY DATA SHEET

BOILING POINT > 212 °F (100° C)
FREEZING POINT 32 °F (0° C)
VAPOR PRESSURE ~21 mm Hg @ 21° C
SOLUBILITY IN WATER Emulsifies
SPECIFIC GRAVITY 1.7
pH > 7
VOLATILE ORGANIC COMPOUNDS < 100 g/l
VISCOSITY Not determined
FLASH POINT [METHOD] Not determined. Expected to be >200°F
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

STABILITY Stable
MATERIALS TO AVOID Strong oxidizers, strong acids
CONDITIONS TO AVOID Extreme temperatures
HAZARDOUS DECOMPOSITION Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes, and smoke may be produced.
HAZARDOUS POLYMERIZATION Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Component LD50 Oral (rat) LD50 Dermal (rabbit) LC50 Inhalation (rat)
Proprietary epoxy resin > 2000 mg / kg Not available Not available
1-Methoxy propan-2-ol 3739 mg / kg Not available 10,000 ppm (5 hr)

SECTION 12 – EXOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, and Federal Regulations; this product is toxic to fish, do not discharge into lakes, ponds, streams or public waters. Product is classified as non-hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Consult your local, state, Provincial or Federal Environmental Protection Agency before disposing of any chemicals.
SECTION 14 – TRANSPORT INFORMATION

US DOT

Proper Shipping Name: Not regulated
UN Number:
Packing Group:
Special Instructions:

IATA

Proper Shipping Name: Not regulated
UN Number:
Packing Group:
Special Instructions:

IMDG

Proper Shipping Name: Not regulated
UN Number:
Packing Group:
Special Instructions:

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

TSCA (Toxic substance Control Act)
All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories
None

313 Reportable Ingredients:
None

CERCLA (Comprehensive Response Compensation and Liability Act)
None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986
The following are chemicals present known to the state of California to cause cancer or reproductive toxicity.
Titanium dioxide (airborne unbound respirable particles) (CAS# 13463-67-7)
Crystalline silica (airborne respirable particles) (CAS# 14808-60-7)

CANADA
CPR (Canadian Controlled Products Regulations)
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B
MATERIAL SAFETY DATA SHEET

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)
Not determined

EUROPE
EINECS (European Inventory of Existing Commercial Chemical Substances)
Not determined

EU CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC AND DIRECTIVE 199/45/EC
Not determined

Risk Phrases
Not determined

Safety Phrases
Not determined

SECTION 16 – OTHER INFORMATION

HMIS HAZARD RATINGS

<table>
<thead>
<tr>
<th>HMIS HAZARD RATINGS</th>
<th>HMIS SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0 = Insignificant hazard 3 = High</td>
</tr>
<tr>
<td>Fiammability</td>
<td>1 = Slight 4 = Extreme</td>
</tr>
<tr>
<td>Physical hazard</td>
<td>2 = Moderate * = Chronic health hazard</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>B = Safety Glasses, Gloves</td>
</tr>
</tbody>
</table>

MSDS Changes: New March 2, 2012

To the best of our knowledge, the information contained herein is accurate. However, JFB Hart Coatings, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.
SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

GENERAL USE: Curing agent
PRODUCT DESCRIPTION: Milky white

MANUFACTURER’S NAME
JFB Hart Coatings, Inc.

ADDRESS
10210 Werch Drive, Suite 203
Woodbridge, IL 60517

DATE PREPARED: March 6, 2012
SUPERSEDES: None

TELEPHONE NUMBER FOR INFORMATION
(630) 633-6228

EMERGENCY TELEPHONE NUMBER
Infotrac (800) 535-5053   Outside USA (352) 323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview: White milky liquid. Keep away from heat and sources of ignition. May cause mild eye irritation. May cause allergic skin reaction which in susceptible individuals may also include asthma-like symptoms.

Potential Health Effects

EYE: Contact causes mild irritation. Symptoms may include redness and discomfort

SKIN: May cause skin irritation in sensitive individuals. Animal studies on primary chemical components indicate that this product is expected to be a non-irritant. Chronic exposure may result in skin sensitization, and possibly eczemas.

INGESTION: Not expected to be toxic.

INHALATION: Chronic overexposures may trigger asthma-like symptoms.

Chronic Effects / Carcinogenicity

NTP Listed: No  IARC Group 1 or 2A: No  OSHA Regulated: No

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS Registry No.</th>
<th>Percentage (wt/wt)</th>
</tr>
</thead>
<tbody>
<tr>
<td>25085-99-8</td>
<td>50-60</td>
</tr>
</tbody>
</table>

2,2’-[1-methylethylidene]bis(4,1-phenyleneoxymethylene)]bis-oxirane homopolymer

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

SECTION 4 – FIRST AID MEASURES

EYE: Flush eyes with clear running water for at least 5 minutes while holding eyelids open; if irritation persists, seek medical attention. Remove contact lenses if easy to do.

SKIN: Remove contaminated clothing; wash affected area with plenty of water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

INGESTION: DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs; seek immediate medical attention. Vomiting may be induced only under the supervision of a physician.

INHALATION: Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.
SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Alcohol-resistant foam, carbon dioxide, dry chemical, dry sand, limestone powder
MEDIA NOT TO BE USED: None known
FIRE & EXPLOSION HAZARDS: Closed containers can explode due to buildup of pressure when exposed to extreme heat.
FIRE FIGHTING INSTRUCTIONS: Firefighters must wear full facepiece self-contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.
HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, fumes, oxides of carbon

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CAUTION - WILL SUPPORT COMBUSTION. Do not wash to sanitary sewer. All spills - confine spill, soak up with approved absorbent, shovel product into approved container for disposal. Flush area with water, recover flush for proper disposal.

SECTION 7 – HANDLING AND STORAGE

HANDLING Avoid breathing product. Avoid contact with eyes. Keep away from food and drink. Wash hands before eating.
STORAGE Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures, open flames. Keep away from oxidizers. CAUTION - This material will support combustion. Keep this and other chemicals out of reach of children.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. See Section 3 for Component Exposure Guidelines.
RESPIRATORY PROTECTION None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, use NIOSH approved respirator. Refer to 29 CFR 1910.134, CSA Z94.4-93, or European Standard EN 149 for complete regulations.
SKIN PROTECTION PVC disposable gloves
EYE PROTECTION Chemical splash glasses; safety eyebath nearby. Refer to 29 CFR 1910.133, CSA Z94.3-M1982, or European Standard EN166.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No specific recommendation.

<table>
<thead>
<tr>
<th>EXPOSURE GUIDELINES</th>
<th>OSHA PEL</th>
<th>ACGIH TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td>ppm</td>
<td>mg/m3</td>
<td>ppm</td>
</tr>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE Milky white liquid
ODOR Not determined
BOILING POINT 212° F
FREEZING POINT Not determined
VAPOR PRESSURE 20 mm Hg @ 25° C
SOLUBILITY IN WATER Soluble
SPECIFIC GRAVITY 1.1
PH Neutral
VOLATILE ORGANIC COMPOUNDS None
VISCOSITY Not determined
FLASH POINT [METHOD] > 478 ° F (248° C) [UNKNOWN]
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

STABILITY Stable
MATERIALS TO AVOID Strong oxidizers, peroxides, mineral acids, and bases
CONDITIONS TO AVOID Extreme temperatures, open flames
HAZARDOUS DECOMPOSITION PRODUCTS Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, fumes, and smoke may be produced.
HAZARDOUS POLYMERIZATION Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

<table>
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<tr>
<th>Component</th>
<th>LD50 Oral (rat)</th>
<th>LD50 Dermal (rabbit)</th>
<th>LC50 Inhalation (rat)</th>
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</thead>
<tbody>
<tr>
<td>2,2'-(1-methylethylidene)bis(4,1-phenyleneoxymethylene)bis-oxirane homopolymer</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 12 – EXOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local, State, Provincial, and Federal Regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.
SECTION 14 – TRANSPORT INFORMATION

US DOT
Not regulated
- Proper Shipping Name:
- UN Number:
- Packing Group:
- Special Instructions:

IATA
Not regulated
- Proper Shipping Name:
- UN Number:
- Packing Group:
- Special Instructions:

IMDG
Not regulated
- Proper Shipping Name:
- UN Number:
- Packing Group:
- Special Instructions:

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, Canadian TDG, and United Nations TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

US – FEDERAL AND STATE
TSCA (Toxic substance Control Act)
All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.

SARA TITLE III (Superfund Amendments and Reauthorization Act)
311/312 Hazard Categories
Immediate health; delayed health

313 Reportable Ingredients:
None above 1%

CERCLA (Comprehensive Response Compensation and Liability Act)
None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986
There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

CANADA
CPR (Canadian Controlled Products Regulations)
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: D2B
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)
Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 3 unless otherwise indicated.

EUROPE
EINECS (European Inventory of Existing Commercial Chemical Substances)
Not determined

EU CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC
Not determined

Risk Phrases
Not determined.

Safety Phrases
Not determined.

SECTION 16 – OTHER INFORMATION

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<thead>
<tr>
<th>HMIS HAZARD RATINGS</th>
<th>HMIS SYSTEM</th>
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<tbody>
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</tr>
<tr>
<td>Personal Protection</td>
<td>B = Safety Glasses, Gloves</td>
</tr>
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</table>

MSDS Changes: New
Replaces version dated: Not applicable

To the best of our knowledge, the information contained herein is accurate. However, JFB Hart Coatings, Inc. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.