1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: .................................................... WEST SYSTEM® SIX10® RESIN
PRODUCT CODE: .................................................. 610A
CHEMICAL FAMILY: .............................................. Epoxy Resin.
CHEMICAL NAME: ............................................... Modified bisphenol A based epoxy resin.
FORMULA: ............................................................ Not applicable.

MANUFACTURER:
West System Inc.
102 Patterson Ave.
Bay City, MI 48706, U.S.A.
Phone: 866-937-8797 or 989-684-7286
www.westsystem.com

2. HAZARDS IDENTIFICATION

WARNING  May cause skin irritation. May cause eye irritation. May cause allergic reaction and sensitization. Clear to cloudy gel wih mild odor.

PRIMARY ROUTE(S) OF ENTRY: .............................................. Skin contact.

POTENTIAL HEALTH EFFECTS:

ACUTE INHALATION: ...................................................... At room temperature, exposure to vapor is minimal due to low volatility. If product is heated, vapors generated can cause headache, nausea, dizziness and possible respiratory irritation if inhaled in high concentrations.

CHRONIC INHALATION: .................................................... Repeated exposure to high vapor concentrations may cause irritation of pre-existing lung allergies and increase the chance of developing allergy symptoms to this product.

ACUTE SKIN CONTACT: .................................................... May cause allergic skin response in certain individuals. May cause moderate irritation to the skin such as redness and itching.

CHRONIC SKIN CONTACT: ............................................... May cause sensitization in susceptible individuals. May cause moderate irritation to the skin.

EYE CONTACT: .............................................................. May cause irritation.

INGESTION: ................................................................. Low acute oral toxicity.

SYMPTOMS OF OVEREXPOSURE: ................................. Possible sensitization and subsequent allergic reactions usually seen as redness and rashes.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: .............. Pre-existing skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing lung and skin allergies may increase the chance of developing allergic symptoms to this product.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT NAME</th>
<th>CAS #</th>
<th>CONCENTRATION (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propane, 2,2-bis[2-(2,3-epoxypropoxy)phenyl]-, polymers</td>
<td>25085-99-8</td>
<td>60-100</td>
</tr>
<tr>
<td>Aliphatic glycidyl ether</td>
<td>68609-97-2</td>
<td>5-10</td>
</tr>
<tr>
<td>Synthetic amorphous silica</td>
<td>112945-52-5</td>
<td>5-10</td>
</tr>
<tr>
<td>Phenol-formaldehyde polymer glycidyl ether</td>
<td>28064-14-4</td>
<td>1-5</td>
</tr>
<tr>
<td>Neopentyl glycol glycidyl ether</td>
<td>17557-23-2</td>
<td>1-5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

FIRST AID FOR EYES ..................................................... Flush immediately with water for at least 15 minutes. Consult a physician.

FIRST AID FOR SKIN ...................................................... Remove contaminated clothing. Wipe excess from skin. Remove with waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur.

FIRST AID FOR INHALATION .............................................. Remove to fresh air if effects occur. Consult a physician.
5. FIRE FIGHTING MEASURES

FLASH POINT: ............................................................... >200°F (Tag Closed Cup)

EXTINGUISHING MEDIA: ........................................ Foam, carbon dioxide (CO₂), dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: ....................... Wear a self-contained breathing apparatus and complete full-body personal protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat.

FIRE AND EXPLOSION HAZARDS: .................................. During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenoics, carbon monoxide, carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES ......................................... Soak up in absorbent material or scrape up. Residual can be removed with non-flammable solvent, but solvent should be used sparingly and with appropriate precautions.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (MIN./MAX): ............................ 40°F (4°C) / 120°F (49°C)

STORAGE: ........................................................................ Store in cool, dry place. Store in tightly sealed containers to prevent moisture absorption and loss of volatiles. Excessive heat over long periods of time will degrade the resin.

HANDLING PRECAUTIONS: .................................................. Avoid prolonged or repeated skin contact. Wash thoroughly after handling. Launder contaminated clothing before reuse. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity.

8. EXPOSURE CONTROLS/PERSOAL PROTECTION

EYE PROTECTION GUIDELINES: ...................................... Safety glasses with side shields or chemical splash goggles.

SKIN PROTECTION GUIDELINES: ..................................... Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

RESPIRATORY/VENTILATION GUIDELINES: ....................... Good room ventilation is usually adequate for most operations. Wear a NIOSH/MSHA approved respirator with an organic vapor cartridge whenever exposure to vapor in concentrations above applicable limits is likely.

Note: West System Inc. has conducted an air sampling study using this product or similarly formulated products. The results indicate that the components sampled for (epichlorohydrin) were either so low that they were not detected at all or they were well below OSHA’s permissible exposure limits.

ADDITIONAL PROTECTIVE MEASURES: ............................... Practice good caution and personal cleanliness to avoid skin and eye contact. Avoid skin contact when removing gloves and other protective equipment. Wash thoroughly after handling. Generally speaking, working cleanly and following basic precautionary measures will greatly minimize the potential for harmful exposure to this product under normal use conditions.

OCCUPATIONAL EXPOSURE LIMITS: ................................. Not established for product as whole. Refer to OSHA’s Permissible Exposure Level (PEL) or the ACGIH Guidelines for information on specific ingredients.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: .......................................................... Gel.

COLOR: ......................................................................... Colorless.

ODOR: .......................................................................... Mild.

BOILING POINT: .......................................................... > 400°F.

MELTING POINT/FREEZE POINT: .................................. No data.

VISCOITY: ..................................................................... No data.

pH: ............................................................................... No data.

SOLUBILITY IN WATER: .................................................. Slight.

SPECIFIC GRAVITY: ....................................................... 1.17

BULK DENSITY: ............................................................ 9.76 pounds/gallon.

VAPOR PRESSURE: ........................................................ < 1 mmHg @ 20°C.

VAPOR DENSITY: .......................................................... Heavier than air.

MSDS #610A-13a  Last Revised: 26APR13
% VOLATILE BY WEIGHT: ........................................................................................................... The Volatile Matter Content of this two-component system was determined by mixing the individual components together at the proper ratio. Refer to the hardener's MSDS for information about the total volatile content of the resin/hardener system.

10. STABILITY AND REACTIVITY

STABILITY: ................................................................................................................................. Stable.

HAZARDOUS POLYMERIZATION: ............................................................................................. Will not occur by itself, but a mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup.

INCOMPATIBILITIES: ................................................................................................................... Strong acids, bases, amines and mercaptans can cause polymerization.

DECOMPOSITION PRODUCTS: .................................................................................................... Carbon monoxide, carbon dioxide and phenolic fumes may be produced during an uncontrolled exothermic reaction or when otherwise heated to decomposition.

11. TOXICOLOGICAL INFORMATION

No specific oral, inhalation or dermal toxicity data is known for this product. Specific toxicity information for a bisphenol-A based epoxy resin present in this product is indicated below:

Oral:.................................................................................................................. LD_{50} > 5000 mg/kg (rats)
Inhalation: No Data
Dermal:............................................................................................................... LD_{50} = 20,000 mg/kg (skin absorption in rabbits)

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or IARC.

TERATOLOGY: ............................................................................................................................. Diglycidyl ether bisphenol-A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

MUTAGENICITY: ........................................................................................................................ Neopentyl glycol diglycidyl ether has been reported to be mutagenic in some laboratory tests.

CARCINOGENICITY:
- NTP ................................................................................................................................. Product not listed.
- IARC ................................................................................................................................. Product not listed.
- OSHA .............................................................................................................................. Product not listed.

Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol-A. Although some weak evidence of carcinogenicity has been reported in animals, when all of the data are considered, the weight of evidence does not show that DGEBA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen.

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence – inadequate; animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

Neopentyl glycol diglycidyl ether has been reported to be carcinogenic in some laboratory tests.

12. ECOLOGICAL INFORMATION

In its original, non-cured form, this product contains substances that may cause long term harm if released to the environment. Prevent entry into sewers and natural waters.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: ................................................................................................. Evaluation of this product using RCRA criteria shows that it is not a hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

DOT Non-Bulk
SHIPPING NAME: ........................................................................................................ Not regulated.
TECHNICAL SHIPPING NAME: ...................................................................................... Not applicable.
HAZARD CLASS: Not applicable.
U.N./N.A. NUMBER: Not applicable.
PACKING GROUP: Not applicable.

IMDG
SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.
HAZARD CLASS: Class 9.
U.N. NUMBER: UN3077.
PACKING GROUP: PG III.
EmS Number: F-A, S-F
MARINE POLLUTANT: Yes

ICAO/IATA
SHIPPING NAME: Environmentally hazardous substance, solid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.
HAZARD CLASS: Class 9.
U.N. NUMBER: UN3077.
PACKING GROUP: PG III.
MARINE POLLUTANT: Yes

15. REGULATORY INFORMATION

OSHA STATUS: Irritant.
TSCA STATUS: All components are listed on TSCA inventory or otherwise comply with TSCA requirements.

Canada WHMIS Classification: D2B – Toxic material causing other toxic effects.
CEPA Chemical Inventory Status: All components are listed or are otherwise compliant with CEPA requirements.

SARA TITLE III:
SECTION 313 TOXIC CHEMICALS: None (deminimus).

STATE REGULATORY INFORMATION:
The following chemicals are specifically listed or otherwise regulated by individual states. For details on your regulatory requirements you should contact the appropriate agency in your state.

<table>
<thead>
<tr>
<th>COMPONENT NAME</th>
<th>CAS NUMBER</th>
<th>CONCENTRATION</th>
<th>STATE CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epichlorohydrin</td>
<td>106-89-8</td>
<td>&lt; 5ppm</td>
<td>'CA</td>
</tr>
</tbody>
</table>

1. These substances are known to the state of California to cause cancer or reproductive harm, or both.

16. OTHER INFORMATION

REASON FOR ISSUE: Changes in Sections 14.
PREPARED BY: G.M. House
APPROVED BY: G. M. House
TITLE: Health, Safety & Environmental Manager
APPROVAL DATE: April 26, 2013
SUPERSEDES DATE: March 14, 2012
MSDS NUMBER: 610A-13a

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