# MATERIAL SAFETY DATA SHEET West System Inc.

1.	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
	PRODUCT NAME: WEST SYSTEM PRODUCT CODE: 501 CHEMICAL FAMILY: Epoxy resin. CHEMICAL NAME: Epoxy resin wit FORMULA: No information.	th titanium dioxide pigment.
	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	EMERGENCY TELEPHONE NUMBERS: Transportation CHEMTREC:800-424-9300 (U.S.) 703-527-3887 (International) Non-transportation Poison Hotline:800-222-1222
2.	EMERGENCY OVERVIEW  WARNING May cause skin irritation. May cause eye irritation. May cause allergic reaction and sensitization. White paste with mild resin odor.  PRIMARY ROUTE(S) OF ENTRY:	
		At room temperature, exposure to vapor is minimal due to low volatility. If sea, 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: moderate irritation to the skin such as redness and itching.	May cause allergic skin response in certain individuals. May cause
	CHRONIC SKIN CONTACT:irritation to the skin.	May cause sensitization in susceptible individuals. May cause moderate
	EYE CONTACT:	

# 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGESTION: Low acute oral toxicity.

INGREDIENT NAME	CAS#	<b>CONCENTRATION (%)</b>
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	20-50
Cresyl Glycidyl Ether	2210-79-9	5-20
Titanium Dioxide	13463-67-7	40-70
Aluminum Hydroxide	21645-51-2	1-5
Amorphous Silica	7631-86-9	1-5

# 4. FIRST AID MEASURES

redness and rashes.

FIRST AID FOR EYES:	Flush immediately with water for at least 15 minutes. Consult a physician.
FIRST AID FOR SKIN: waterless skin cleaner and then wash with soap and water. Consult	Remove contaminated clothing. Wipe excess from skin. Remove with a physician if effects occur.

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.

	FIRST AID FOR INGESTION:	Seek medical attention if a significant amount is ingested.
5.	FIRE FIGHTING MEASURES	
	FLASH POINT:	205°F (TCC).
	EXTINGUISHING MEDIA:	Foam, CO <sub>2</sub> , dry chemical, or water fog.
	SPECIAL FIRE FIGHTING PROCEDURES:clothing. Burning may produce oxides of aluminum, carbon, and tital	Use a self-contained breathing apparatus and appropriate protective nium; aldehydes, carbon monoxide, carbon dioxide and phenolics.
6.	ACCIDENTAL RELEASE MEASURES	
	SPILL OR LEAK PROCEDURES: with non-flammable solvent, but solvent should be used sparingly an	Soak up in absorbent material or scrape up. Residual can be removed d with appropriate precautions.
7.	HANDLING AND STORAGE	
	STORAGE TEMPERATURE (min./max.):	40°F (4°C)/100°F (38°C).
	STORAGE: moisture absorption and loss of volatiles. Excessive heat over long	Store in cool, dry place. Store in tightly sealed containers to prevent periods of time will degrade the resin.
	HANDLING PRECAUTIONS:handling. Launder contaminated clothing before reuse. Avoid inhala	
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	EYE PROTECTION GUIDELINES:	Safety glasses with side shields or chemical splash goggles.
	SKIN PROTECTION GUIDELINES:butyl rubber or natural rubber) and full body-covering clothing.	Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene,
		Good room ventilation is usually adequate for most operations. Wear a per exposure to vapor in concentrations above applicable limits is likely.
	contact. Avoid skin contact when removing gloves and other protect	Practice good caution and personal cleanliness to avoid skin and eye tive equipment. Wash thoroughly after handling. Generally speaking, atly minimize the potential for harmful exposure to this product under normal
	OCCUPATIONAL EXPOSURE LIMITS:	Not established for product as whole. Refer to OSHA's Permissible pecific ingredients.
9.	PHYSICAL AND CHEMICAL PROPERTIES	
3.	PHYSICAL FORM	
	COLORODOR	
	BOILING POINT	No data.
	MELTING POINT/FREEZE POINT	
	SOLUBILITY IN WATER	
	SPECIFIC GRAVITY	
	BULK DENSITY	
	VAPOR PRESSUREVAPOR DENSITY	
	% VOLATILE BY WEIGHT	
10.	STABILITY AND REACTIVITY	
	STABILITY:	Stable.
	HAZARDOUS POLYMERIZATION:	
	INCOMPATIBILITIES: or mercaptans.	Strong oxidizing agents, strong acids, bases, peroxides, ammonia, amines
	DECOMPOSITION PRODUCTS: carbon dioxide and phenolics may be produced during uncontrolled of	Oxides of aluminum, carbon, and titanium; aldehydes, carbon monoxide, exothermic reactions or when otherwise heated to decomposition.

#### 11. TOXICOLOGICAL INFORMATION

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

Oral:.....LD<sub>50</sub> > 5000 mg/kg (rats)

Inhalation: ......No Data.

#### CARCINOGENICITY:

NTP Product not listed.

IARC Product not listed.

OSHA Product not listed.

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.

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 DGEBPA is carcinogenic. Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBPA is not classified as a carcinogen.

#### 12. ECOLOGICAL INFORMATION

In the non-cured liquid form this product 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

D.O.T. SHIPPING NAME:

D.O.T. SHIPPING NAME:

Not regulated by D.O.T.

TECHNICAL SHIPPING NAME:

Not applicable.

U.N./N.A. NUMBER:

Not applicable.

PACKING GROUP:

Not applicable.

### **IMDG**

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.

 HAZARD CLASS:
 Class 9.

 U.N. NUMBER:
 UN3082.

 PACKING GROUP:
 PG III.

 EmS Number:
 F-A, S-F

 MARINE POLLUTANT
 Yes

# ICAO/IATA

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.

TECHNICAL SHIPPING NAME: Epoxy Resin.

HAZARD CLASS: Class 9.

U.N. NUMBER: UN3082.

PACKING GROUP: PG III.

MARINE POLLUTANT: Yes

# 15. REGULATORY INFORMATION

OSHA STATUS:	Irritant.
TSCA STATUS:	All components are listed on the TSCA Inventory or otherwise comply with
TSCA requirements.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
SARA TITLE III:	
SECTION 313 TOXIC CHEMICALS	None.
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.	
CEPA Chemical Inventory Status:	

# 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.

# COMPONENT NAME

/CAS NUMBER STATE CODE

Titanium Dioxide (powder) 13463-67-7 Amorphous Silica 7631-86-9

MA, NJ, PA, RI

MA, PA

# 16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

G. M. House

APPROVED BY:

G. M. House

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

April 26, 2013

SUPERSEDES DATE:

May 4, 2012

MSDS NUMBER:

501-13a

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