# MATERIAL SAFETY DATA SHEET West System Inc.

# CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: WEST SYSTEM<sup>®</sup> 503 Gray Pigment.

**PRODUCT CODE:**.....503

CHEMICAL FAMILY: ..... Epoxy resin.

CHEMICAL NAME: ..... Epoxy resin with titanium dioxide and carbon black 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

#### HAZARDS IDENTIFICATION

#### **EMERGENCY OVERVIEW**

WARNING May cause skin irritation. May cause eye irritation. May cause allergic reaction and sensitization. Gray paste with mild resin odor.

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

# **POTENTIAL HEALTH EFFECTS:**

product is heated, vapors generated can cause headache, nausea, dizziness and possible respiratory irritation if inhaled in high concentrations.

pre-existing lung allergies and increase the chance of developing allergy symptoms to this product.

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. Repeated exposure is not likely to cause other adverse health effects.

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.

# COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS#	<b>CONCENTRATION (%)</b>
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	15-40
Cresyl Glycidyl Ether	2210-79-9	5-20
Titanium Dioxide (powder)	13463-67-7	30-60
Aluminum Hydroxide	21645-51-2	1-5
Amorphous Silica	7631-86-9	1-5
Carbon Black	1333-86-4	1-5

# **FIRST AID MEASURES**

MSDS# 503-13a Last Revised: 26APR13

	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.
	FIRST AID FOR INHALATION:	Remove to fresh air if effects occur. Consult a physician.
	FIRST AID FOR INGESTION:	Seek medical attention if 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 unium; 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 and with appropriate precautions.
7.	HANDLING AND STORAG	
	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 to keep exposure below a NIOSH approved respirator with an organic vapor cartridge whenever
	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	
	PHYSICAL FORM	Gray.
	ODOR BOILING POINT	
	MELTING POINT/FREEZE POINT	No data.
	pHSOLUBILITY IN WATER	
	SPECIFIC GRAVITY	
	BULK DENSITYVAPOR PRESSURE	
	VAPOR DENSITY	Heavier than air.
	% VOLATILE BY WEIGHT	14.3.
10.	STABILITY AND REACTIVITY	
	STABILITY:	Stable.
	HAZARDOUS POLYMERIZATION:	Will not occur

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	INCOMPATIBILITIES:	Strong acids, peroxides and other oxidizing agents, strong bases,		
	ammonia, and mercaptans.			
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)			
	Dermal:			
	TERATOLOGY:			
	REPRODUCTIVE EFFECTS:	DGEBPA, in animal studies, has been shown not to interfere with reproduction.		
	MUTAGENICITY: mutagenicity were negative in some cases and po			
	CARCINOGENICITY:			
	NTP			
	IARC OSHA			
	The International Agency for Research on Cancer (IARC) evaluation of carbon black concluded that there is sufficient evidence in experimental animals for the carcinogenicity of carbon black. Based upon this evaluation, along with its findings of inadequate evidence of carcinogenicity in humans, IARC has designated carbon black as a Group 2B carcinogen "possibly carcinogenic to humans." This classification is based on the inhalation route of exposure. Carbon black as present in this product is not available for inhalation exposure. If this product is cured and subsequently sanded to create airborne dust the appropriate precautions should be taken to prevent inhalation exposure.  The National Toxicology Program (NTP) has not listed carbon black. The Occupational Safety and Health Administration (OSHA) has not listed carbon black.  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	se long-term harm if released to the environment. Prevent entry into sewers and natural waters.		
13.	DISPOSAL CONSIDERATIONS			
	WASTE DISPOSAL METHOD:			
	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: TECHNICAL SHIPPING NAME: D.O.T. HAZARD CLASS:	Not applicable.		

U.N./N.A. NUMBER: Not applicable.
PACKING GROUP: Not applicable.

 HAZARD CLASS:
 Class 9.

 U.N. NUMBER:
 UN3082.

 PACKING GROUP:
 PG III.

 EmS Number:
 F-A, S-F

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

MARINE POLLUTANT	Yes
IATA SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: U.N. NUMBER: PACKING GROUP: MARINE POLLUTANT:	Environmentally hazardous substance, liquid, n.o.s Epoxy Resin Class 9 UN3082 PG III.

# 15. REGULATORY INFORMATION

TSCA STATUS: All components are included on the TSCA inventory list or otherwise comply wit TSCA requirements. Canada WHMIS Classification: D2B – Toxic material causing other toxic effects. requirements. SARA TITLE III:

# SECTION 313 TOXIC CHEMICALS ...... None.

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

13463-67-7 MA, NJ, PA, RI Amorphous Silica 112945-52-5 MA, NJ, PA, RI Carbon Black N.J

1333-86-4

# 16. OTHER INFORMATION

APPROVED BY: G. M. House TITLE: Health, Safety & Environmental Manager MSDS NUMBER: 503-13a

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