SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

 $\textbf{PRODUCT NAME:} \qquad \qquad \textbf{WEST SYSTEM}^{\circledR} \, \textbf{SIX10}^{\circledR} \, \textbf{Resin}$

APLICABLE PRODUCT CODES:.....610A

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES: Adhesive resin for composites.

PRODUCT RESTRICTIONS: None identified. SDS VERSION: 610A-2016a

MANUFACTURER:

Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A.

Phone: 866-937-8797 or 989-684-7286

www.westsystem.com

EMERGENCY TELEPHONE NUMBERS (24 HRS):

Transportation

703-527-3887 (International)

Non-transportation

Poison Hotline: 800-222-1222

2. HAZARDS IDENTIFICATION

Classification of Substance or Mixture

Skin corrosion/irritation, Category 2 Skin sensitizer, Category 1 Eye damage/irritation, Category 2A Chronic aquatic toxicity, Category 2

Label Elements

Hazard Pictogram(s):



Signal Word:

WARNING

Hazard Statements:

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical attention/advice.

P337 + P313 If eye irritation persists: Get medical attention/advice.

P362 + P364 Take off contaminated clothing and wash it before re-use.

P391 Collect spillage.

Disposal

P501 Dispose of contents/container in accordance with local, regional and international regulations.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-100
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	5-10

Last Revised: 17AUG16

Synthetic Amorphous, Pyrogenic Silica	112945-52-5	5-10
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	1-5
Oxirane, 2,2'[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-	17557-23-2	1-5

The exact chemical identity and/or exact percentage (concentration) of each ingredient has been held as confidential business information (CBI). Refer to Section 15 for additional information regarding this CBI claim.

4.	FIRST AID MEASURES
	FIRST AID FOR EYES
	FIRST AID FOR SKIN
	FIRST AID FOR INHALATION
	FIRST AID FOR INGESTION
5.	FIRE FIGHTING MEASURES
	EXTINGUISHING MEDIA: SUITABLE: Foam, carbon dioxide (CO ₂), dry chemical. NON-SUITABLE: Direct water stream.
	FIRE AND EXPLOSION HAZARDS:
	SPECIAL FIRE FIGHTING PROCEDURES:
6.	ACCIDENTAL RELEASE MEASURES
	PERSONAL PRECAUTIONS AND PROTECTIVE EQUIPMENT: Keep unnecessary and unprotected personnel from entering area. Use appropriate safety and personal protective equipment as indicated in Section 8.
	MITIGATION AND CLEAN UP PROCEDURES:
	ENVIRONMENTAL PRECAUTIONS:
7.	HANDLING AND STORAGE
	STORAGE TEMPERATURE (min./max.):
	STORAGE:
	HANDLING PRECAUTIONS:
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
	EYE PROTECTION GUIDELINES:
	SKIN PROTECTION GUIDELINES:
	RESPIRATORY/VENTILATION GUIDELINES:

Page 2 of 6 Last Revised: 17AUG16

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: Exposure limits may not be established for this product as a whole. For established exposure limits of specific ingredients in this product, or other available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	No data available.
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	No data available.
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	Amorphous silica: OSHA PEL 6 mg/m ³
		Dust and PNOS: ACGIH 10mg/m³, TWA, Inhalable; 3 mg/m³, TWA, Respirable; OSHA PEL 15 mg/m³, TWA, total dust; 5 mg/m³, TWA, Respirable
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	No data available.
Oxirane, 2,2'[(2,2-dimethyl-1,3-	17557-23-2	No data available.
propanediyl)bis(oxymethylene)]bis-		

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Gel-paste.
COLOR:	. Cloudy, off-white.
ODOR:	. Mild.
ODOR THRESHOLD:	. No data available
pH	. No data available
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	. > 400°F (204°C) Estimated based on ingredient data.
FLASH POINT:	. >200°F (93°C) Based on ASTM D92 test results from similar product.
AUTO IGNITION TEMPERATURE	. No data available
LOWER EXPLOSIVE LIMIT (LEL)	. No data available
UPPER EXPLOSIVE LIMIT (UEL)	. No data available
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	. 9.75 lbs./gal. (1.17 kg/L)
VAPOR DENSITY (air = 1)	. < 1 mmHg@ 20°C. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	. No data available
WATER SOLUBILITY (% BY WT.)	. No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	. No data mm²/s @ 20°C
DECOMPOSITION TEMPERATURE:	
	. ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for information	about the total volatile content of the resin/hardener system.

10. STABILITY AND REACTIVITY

STABILITY:	Product is stable at normal temperatures and pressures.
	Product will not react by itself. A mass of more than one pound of product nificant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. ease and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.
DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide and phenolics may be produced during

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

uncontrolled exothermic reactions or when otherwise heated to decomposition.

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	17000 mg/kg (rat)	No data	No data
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	>5000 mg/kg	>2000 mg/kg	No data
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4			
		>2000 mg/kg	2000 mg/kg	No data

Page 3 of 6 Last Revised: 17AUG16

Oxirane, 2,2'[(2,2-dimethyl-1,3-	17557-23-2			
propanediyl)bis(oxymethylene)]bis-	17007 20 2	4500 mg/kg	>2000 mg/kg	No data
ACUTE TOXICITY:	No si	pecific toxicity data exis	ts for this mixture. Cla	ssification is
based on acute toxicity estimation methods using	g ingredient data.	·		
Oral:				
		Not classified. Does not meet acute dermal toxicity criteria Not classified. Does not meet acute inhalation toxicity criteria. If product		
heated, vapors generated can cause headache,				
SKIN CORROSION / IRRITATION:	Caus	es skin irritation – Cate	gory 2.	
SERIOUS EYE DAMAGE / IRRITATION:	Caus	es serious eve irritation	Category 2A	
		•	- /	
RESPIRATORY SENSITIZATION:Repeated exposure to high vapor concentrations developing allergy symptoms to this product.				
SKIN SENSITIZATION:	May	cause allergic skin reac	tion. Category 1.	
REPRODUCTIVE TOXICITY:	Not o	lassified. Diglycidyl eth	er bisphenol-A, in anir	mal studies, has been
shown not to interfere with reproduction. Diglycic pregnant rabbits were exposed by skin contact, t	lyl ether bisphenol-A did no	t cause birth defects or	other adverse effects	on the fetus when
MUTAGENICITY:	Not o	lassified. Does not mee	et criteria for germ cell	mutagenicity.
Diglycidyl ether bisphenol-A in animal mutageniothers.	city studies were negative.	In vitro mutagenicity te	sts were negative in s	ome cases and positi
CARCINOGENICITY:	Not c	lassified. Does not mee	et criteria for carcinoge	enicity.
Many studies have been conducted to assess th carcinogenicity has been reported in animals, wh	nen all of the data are consi	dered, the weight of evi	dence does not show	that Diglycidyl ether
bisphenol-A is carcinogenic. Indeed, the most reconcluded that Diglycidyl ether bisphenol-A is no			nal Agency for Resear	ch on Cancer (IARC)
bisphenol-A is carcinogenic. Indeed, the most re	of classified as a carcinogen pm) has been reported to p has been established by the bwing conclusions: human y the National Toxicology P	roduce cancer in labora le International Agency evidence – inadequate;	atory animals and to p for Research on Cand animal evidence – su	roduce mutagenic cer (IARC) as a proba ufficient. It has been
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Page 4 of 6 Last Revised: 17AUG16

Oxirane, 2,2'[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bi	is- 17557-23-2	Not classified.

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

US DOT

UN NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

ICAO/IATA

UN NUMBER:	UN 3077.
SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Class 9.
PACKING GROUP:	PG III.
MADINE DOLLITANT:	Vos

IMDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS:	Environmentally hazardous substance, solid, n.o.s Epoxy Resin Class 9.
PACKING GROUP: EmS Number:	PG III.
MARINE POLLUTANT	Yes

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant.
Canada	CEPA (DSL/NDSL)	All ingredients are listed or otherwise compliant.
Australia	AICS	All ingredients are listed or otherwise compliant.
Japan	ENCS	All ingredients are listed or otherwise compliant.
South Korea	KECI	All ingredients are listed or otherwise compliant.
China	IECSC	All ingredients are listed or otherwise compliant.
Philippines	PICCS	All ingredients are listed or otherwise compliant.
New Zealand	NZIoC	All ingredients are listed or otherwise compliant.

US EPA SARA TITLE III Reporting and Notification Requirements:

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ)	No data available.
Subject to Section 311 or 312	
Subject to Section 313	

Canada WHMIS Confidential Business Information (CBI):...... The HMIRA number issued for this CBI claim is #10276. The date of filing is 2016-08-09.

STATE REGULATORY INFORMATION:

Chemicals listed below may be specifically regulated by individual states. For details on state regulatory requirements you should contact the appropriate state agency.

COMPONENT NAME /CAS NUMBER Epichlorohydrin

106-89-8

< 5ppm

STATE CODE

1CA

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

16. OTHER INFORMATION

Page 5 of 6 Last Revised: 17AUG16

REASON FOR ISSUE:	Update to Sections 3 and 15 to meet Canada WHMIS 2015 requirements.
PREPARED BY:	G. M. House
APPROVED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	August 17, 2016
SUPERSEDES DATE:	June 1, 2015
SDS VERSION:	610A-2016a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	2
FLAMMABILITY:	1
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

NFPA® 704 CODES



Approximate HMIS and NFPA Risk Ratings Legend:
0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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Page 6 of 6 Last Revised: 17AUG16