SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:WEST SYSTEM[®] SIX10[®] Part A Resin

APLICABLE PRODUCT CODES:.....610A

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES:Adhesive resin for composites.

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

CHEMTREC:......800-424-9300 (U.S.)

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	80-100
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	5-10

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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 may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

4.	FIRST AID MEASURES	
		SYMPTOMS: Causes serious irritation and redness. RESPONSE: Flush es if present and easy to do. Consult a physician as precautionary measure.
		SYMPTOMS: Causes skin irritation. May cause allergic skin reaction and cess from skin. Apply waterless skin cleaner and then wash with soap and
	FIRST AID FOR INHALATIONRESPONSE: Remove to fresh air if respiratory irritation occurs and ke	SYMPTOMS: Not a likely route of exposure under normal conditions of use. eep comfortable for breathing.
	FIRST AID FOR INGESTION ingested under normal conditions of use. RESPONSE: Seek medical	SYMPTOMS: No acute adverse health effects expected from amounts I attention if a significant amount is ingested.
5.	FIRE FIGHTING MEASURES	
	EXTINGUISHING MEDIA: Direct water stream.	SUITABLE: Foam, carbon dioxide (CO ₂), dry chemical. NON-SUITABLE:
	FIRE AND EXPLOSION HAZARDS:	During a fire, smoke may contain the original materials in addition to or irritating. Combustion products may include, but are not limited to:
	SPECIAL FIRE FIGHTING PROCEDURES:protective equipment. Closed containers may rupture (due to buildup	Wear a self-contained breathing apparatus and complete full-body personal of pressure) when exposed to extreme heat.
6.	ACCIDENTAL RELEASE MEASURES	
	EMERGENCY PROCEDURES: appropriate safety and personal protective equipment as indicated in	Keep unnecessary and unprotected personnel from entering area. Use Section 8.
		Stop leak without additional risk. Isolate area. Dike and absorb with inert n, soapy water or non-flammable, safe solvent may be used to clean residual.
	ENVIRONMENTAL PRECAUTIONS:groundwater. See Section 12 for environmental impact information.	Prevent from entering into soil, ditches, sewers, waterways and
7.	HANDLING AND STORAGE	
	STORAGE TEMPERATURE (min./max.):	40°F (4°C) / 120°F (49°C)
	STORAGE: moisture absorption and loss of volatiles. Excessive heat over long p	Store in cool, dry place. Store in tightly sealed containers to prevent eriods of time will degrade the resin.
	contaminated clothing before reuse. Avoid inhalation of vapors from l	Avoid all skin and eye contact. Wash thoroughly after handling. Launder heated product. Precautionary steps should be taken when curing product in auses an exothermic, which in large masses, can produce enough heat to nat vary widely in composition and toxicity.
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	ENGINEERING CONTROLS: exposures below established limits.	Use with adequate general ventilation and/or local ventilation to keep
	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,
	RESPIRATORY PROTECTION GUIDELINES:	When ventilation cannot be made adequate enough to keep exposures

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depending on specific workplace conditions. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and cartridge based on ingredients listed in Section 3 and specific workplace conditions. Use and select a respirator according the guidelines established in OSHA 1910.134 or other applicable respiratory protection standard.

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:	
pH	. No data available
MELTING POINT / FREEZING POINT	. No data available
BOILING POINT (760mm/Hg):	
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)	
VAPOR PRESSURE	. No data available
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)	. No data available
KINEMATIC VISCOSITY:	. No data mm ² /s @ 20°C
DECOMPOSITION TEMPERATURE:	. No data available.
	. 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

REACTIVITY/HAZARDOUS REACTIONS:Product will not react by itself. A mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization.

STABILITY: Product is stable at normal temperatures and pressures.

INCOMPATIBILITIES: Strong acids, bases, amines and mercaptans can cause polymerization. External heating or self-heating could result in rapid temperature increase and pressure build up. If such a condition were to occur in a drum, the drum could expand and rupture violently.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

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)	

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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
Oxirane, 2,2'[(2,2-dimethyl-1,3-	17557-23-2			
propanediyl)bis(oxymethylene)]bis-		4500 mg/kg	>2000 mg/kg	No data

Ingredient		CAS#	Ecotoxicity Classification Information
ADDITIONAL ECOTOXICITY INFORMATION:aquatic life long lasting effects. Prevent release to the environment, se			roduct may be harmful to
MOBILITY IN SOIL:	No spe	cific test data available for	the mixture.
PERSISTANCE AND BIODEGRADABILITY:	No spe	cific test data available for	the mixture.
CHRONIC AQUATIC TOXICITY:	No specific test data available for the mixture. Calculated		
ACUTE AQUATIC TOXICITY: Estimate: Does not meet acute aquatic toxicity requirements.	No specific test data available for the mixture. Calculated		
ECOLOGICAL INFORMATION			
OTHER HEALTH HAZARD INFORMATION:	None k	nown.	
ASPIRATION HAZARD:	Not cla	ssified. Does not meet asp	iration toxicity criteria.
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure):	Not cla	ssified. Does not meet STO	OT RE criteria.
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):	Not cla	ssified. Does not meet STO	OT SE criteria.
A two-year dermal study in mice produced skin tumors at doses greate (Holland, 1981).	er than 1	.87 mg Neopentyl Glycol I	Diglycidyl Ether per mouse per week
Epichlorohydrin, an impurity in this product (<5 ppm) has been reporte changes in bacteria and cultured human cells. It has been established human carcinogen (Group 2A) based on the following conclusions: huclassified as an anticipated human carcinogen by the National Toxicolowould result in measurable exposure concentrations to this substance	d by the Iman ev ogy Pro	International Agency for Ridence – inadequate; anim	esearch on Cancer (IARC) as a prob al evidence – sufficient. It has been
Many studies have been conducted to assess the potential carcinoger carcinogenicity has been reported in animals, when all of the data are bisphenol-A is carcinogenic. Indeed, the most recent review of the avaconcluded that Diglycidyl ether bisphenol-A is not classified as a carcin	conside ailable c	red, the weight of evidence	e does not show that Diglycidyl ether
CARCINOGENICITY:	Not cla	ssified. Does not meet crite	eria for carcinogenicity.
Diglycidyl ether bisphenol-A $$ in animal mutagenicity studies were negatives.	ative. In	vitro mutagenicity tests we	ere negative in some cases and posit
MUTAGENICITY:	Not cla	ssified. Does not meet crite	eria for germ cell mutagenicity.
REPRODUCTIVE TOXICITY:	did not d	ause birth defects or other	adverse effects on the fetus when
SKIN SENSITIZATION:	May ca	use allergic skin reaction.	Category 1.
RESPIRATORY SENSITIZATION: Repeated exposure to high vapor concentrations may cause irritation of developing allergy symptoms to this product.			
SERIOUS EYE DAMAGE / IRRITATION:	Causes	serious eye irritation. Cate	egory 2A.
SKIN CORROSION / IRRITATION:	Causes	skin irritation – Category	2.
Inhalation:heated, vapors generated can cause headache, nausea, dizziness and			
Dermal:		ssified. Does not meet acu	te dermal toxicity criteria.
Oral:		ssified. Does not meet acu	te oral toxicity criteria.

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Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	Not classified.
Synthetic Amorphous, Pyrogenic Silica	112945-52-5	Not classified.
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	Aquatic Chronic Cat. 2
Oxirane, 2,2'[(2,2-dimethyl-1,3-propanediyl)bis(oxymethylene)]bis-	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:	Not applicable.
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.
MARINE POLITIANT	Yes

IMDG

TUT.T	
UN NUMBER:	UN 3077.
SHIPPING NAME:	Environmentally hazardous substance, solid, n.o.s.
TECHNICAL SHIPPING NAME:	Epoxy Resin.
HAZARD CLASS:	
PACKING GROUP:	
EmS Number:	F-A. S-F
MARINE POLITITANT	, -

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 TSCA Requirements:

No data available.

Canada WHMIS Confidential Business Information (CBI)..........No data available.

US EPA SARA TITLE III Reporting and Notification Requirements:

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

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.

¹CA

COMPONENT NAME

106-89-8

<u>/CAS NUMBER</u>
Epichlorohydrin

< 5ppm

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

16. OTHER INFORMATION

REASON FOR ISSUE:	Approval date change.
PREPARED BY:	
SDS CONTACT:	
TITLE:	
APPROVAL DATE:	
SUPERSEDES DATE:	
SDS VERSION:	

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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