# SAFETY DATA SHEET

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: WEST SYSTEM<sup>®</sup> 105 Epoxy Resin

CHEMICAL FAMILY: ..... Epoxy resin mixture.

INTENDED PRODUCT USES: ...... Resin for coatings or adhesives.

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.

P 280 Wear protective gloves/protective clothing/eye 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.

Disposa

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

### Other Hazards Not Resulting In Classification

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	60-80
Benzyl alcohol	100-51-6	10-30

Last Revised: 03JAN22

Phenol-formaldehyde polymer glycidyl ether	28064-14-4	5-10	
		1	

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
	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 <sub>2</sub> ), dry chemical. NON-SUITABLE: Direct water stream.
	FIRE AND EXPLOSION HAZARDS:
	SPECIAL FIRE FIGHTING PROCEDURES:
6.	ACCIDENTAL RELEASE MEASURES
	<b>EMERGENCY PROCEDURES:</b>
	MITIGATION AND CLEAN UP PROCEDURES:
	<b>ENVIRONMENTAL PRECAUTIONS:</b> ————————————————————————————————————
7.	HANDLING AND STORAGE
	<b>STORAGE TEMPERATURE (min./max.):</b>
	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:
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION
	ENGINEERING CONTROLS:
	EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles.
	<b>SKIN PROTECTION GUIDELINES:</b>
	RESPIRATORY PROTECTION GUIDELINES:

Page 2 of 6 Last Revised: 03JAN22

**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
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	No data available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Colorless.  ODOR: Mild.  ODOR THRESHOLD: No data available  PH. No data available  MELTING POINT / FREEZING POINT No data available  MELTING POINT (760mm/Hg): > 400°F (204°C).  FLASH POINT: >200°F (93°C). Estimated based on ingredient data.  FLAMMABILITY (solids or gasses). No data available  AUTO IGNITION TEMPERATURE No data available
ODOR THRESHOLD:  PH
pH
MELTING POINT / FREEZING POINT
MELTING POINT / FREEZING POINT
FLASH POINT:
FLASH POINT:
AUTO IGNITION TEMPERATURE
LOWER EXPLOSIVE LIMIT (LEL)
UPPER EXPLOSIVE LIMIT (UEL)
VAPOR PRESSURE
SPECIFIC GRAVITY/DENSITY (water = 1)
<b>BULK DENSITY</b>
VAPOR DENSITY (air = 1)
EVAPORATIOIN RATE (Butyl Acetate = 1)
WATER SOLUBILITY (% BY WT.)
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow) No data available
KINEMATIC VISCOSITY:
DECOMPOSITION TEMPERATURE:
% VOLATILE BY WEIGHT: 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 mixed with an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization.

**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 <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,		>15,000 mg/kg	>23,000 mg/kg	No data
polymers	25085-99-8	(rat)	(rabbit)	
				>4.18 mg/l
Benzyl alcohol	100-51-6	1620 mg/kg	No data	4 h aerosol
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	>2,000 mg/kg	2,000 mg/kg	No data
		(rat)	(rat)	

ACUTE TOXICITY:	. No specific toxicity data exists for this mixture. Classification is
based on acute toxicity estimation methods using ingredient data.	
Oral:	. Not classified. Does not meet acute oral toxicity criteria.
Dermal:	. Not classified. Does not meet acute dermal toxicity criteria.
Inhalation:	. Not classified. Does not meet acute inhalation toxicity criteria. If product is
heated, vapors generated can cause headache, nausea, dizziness ar	nd possible respiratory irritation if inhaled in high concentrations.

Page 3 of 6 Last Revised: 03JAN22

SKIN CORROSION / IRRITATION:		<b>3</b> ,		
SERIOUS EYE DAMAGE / IRRITATION:	Causes se	erious eye irritation. Category 2A.		
RESPIRATORY SENSITIZATION:				
SKIN SENSITIZATION:	May cause	e allergic skin reaction. Category 1.		
REPRODUCTIVE TOXICITY:	henol-A did not caus	se birth defects or other adverse effects on the fetus when		
MUTAGENICITY:were negative. In vitro mutagenicity tests were negative in so				
CARCINOGENICITY:equal to 0.1% is identified as a carcinogen or potential carcin				
Many studies have been conducted to assess the potential carcinogenicity has been reported in animals, when all of the bisphenol-A is carcinogenic. Indeed, the most recent review concluded that Diglycidyl ether bisphenol-A is not classified a	data are considered of the available data	f, the weight of evidence does not show that Diglycidyl ether		
Epichlorohydrin, an impurity in this product (<5 ppm) has been changes in bacteria and cultured human cells. It has been exhuman carcinogen (Group 2A) based on the following concluctassified as an anticipated human carcinogen by the National would result in measurable exposure concentrations to this s	stablished by the Intesions: human evide al Toxicology Progra	ernational Agency for Research on Cancer (IARC) as a prob nce – inadequate; animal evidence – sufficient. It has been		
STOT (Single Exposure):	Not classif	ried. Does not meet STOT SE criteria.		
STOT (Repeated Exposure):	Not classit	ied. Does not meet STOT RE criteria.		
ASPIRATION HAZARD:				
OTHER HEALTH HAZARD INFORMATION: None known.				
ECOLOGICAL INFORMATION				
ACUTE AQUATIC TOXICITY: Estimate: Not classified. Does not meet acute aquatic classifi	No specification criteria.	c test data available for the mixture. Calculated		
CHRONIC AQUATIC TOXICITY:	No specifi	c test data available for the mixture. Calculated		
Estimate: Aquatic Official Category 2.				
PERSISTANCE AND BIODEGRADABILITY:	No specifi	c test data available for the mixture.		
• •				
PERSISTANCE AND BIODEGRADABILITY:	No specifi	c test data available for the mixture. d, uncured state, this product may be harmful to		
PERSISTANCE AND BIODEGRADABILITY:	No specifi	c test data available for the mixture. d, uncured state, this product may be harmful to natural waters.		
PERSISTANCE AND BIODEGRADABILITY:  MOBILITY IN SOIL:  ADDITIONAL ECOTOXICITY INFORMATION:  aquatic life long lasting effects. Prevent release to the environ		c test data available for the mixture. d, uncured state, this product may be harmful to		
PERSISTANCE AND BIODEGRADABILITY:  MOBILITY IN SOIL:  ADDITIONAL ECOTOXICITY INFORMATION:  aquatic life long lasting effects. Prevent release to the environ  Ingredient  Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers		c test data available for the mixture.  d, uncured state, this product may be harmful to natural waters.    Ecotoxicity Classification Information     Aquatic Chronic Cat. 2		
PERSISTANCE AND BIODEGRADABILITY:		c test data available for the mixture.  d, uncured state, this product may be harmful to natural waters.  Ecotoxicity Classification Information		

# 13.

hazardous waste, either by listing or characteristics, in its purchased form. It is the responsibility of the user to determine proper disposal

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** 

Page 4 of 6 Last Revised: 03JAN22

SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	Not applicable.
CANADA TDG U.N./N.A. NUMBER:SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS:	Not applicable Not applicable Not applicable.
PACKING GROUP:	Not applicable.
IMDG U.N. NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: EmS Number: MARINE POLLUTANT	Environmentally hazardous substance, liquid, n.o.s Epoxy Resin Class 9 PG III F-A, S-F
ICAO/IATA U.N. NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	Environmentally hazardous substance, liquid, n.o.s Epoxy Resin Class 9 PG III.

# 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.

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

# US EPA SARA TITLE III Reporting and Notification Requirements:

# 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

**STATE CODE** 

106-89-8 1CA < 5ppm

# 16. OTHER INFORMATION

REASON FOR ISSUE: Approval date change. PREPARED BY: Gougeon Brothers, Inc. SDS CONTACT: safety@gougeon.com

TITLE: Health, Safety & Environmental Manager

APPROVAL DATE: ...... January 03, 2022 SUPERSEDES DATE: January 15, 2019

Page 5 of 6 Last Revised: 03JAN22

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

# 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: 03JAN22