# **SAFETY DATA SHEET**

#### CHEMICAL PRODUCT AND COMPANY IDENTIFICATION 1.

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

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

#### **Other Hazards Not Resulting In Classification**

None known.

#### 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

#### **EMERGENCY TELEPHONE NUMBERS (24 HRS):**

Transportation

703-527-3887 (International)

Non-transportation 

	Phenol-formaldehyde polymer glycidyl ether	28064-14-4	5-10	
The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential husiness information				

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

#### 5. FIRE FIGHTING MEASURES

#### 6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information.

#### 7. HANDLING AND STORAGE

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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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

PHYSICAL FORM:	Viscous liquid.
COLOR:	
ODOR:	
ODOR THRESHOLD:	
рН	
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	
FLASH POINT:	
FLAMMABILITY (solids or gasses)	No data available
AUTO IGNITION TEMPERATURE	No data available
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	1.15
BULK DENSITY	
VAPOR DENSITY (air = 1)	Heavier than air. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
KINEMATIC VISCOSITY:	869.5 mm²/s @ 20°C
DECOMPOSITION TEMPERATURE:	No data available.
% 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	on about the total volatile content of the resin/hardener system.

#### 10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: ..... Avoid excessive heat.

#### 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)	

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 and possible respiratory irritation if inhaled in high concentrations.

#### SERIOUS EYE DAMAGE / IRRITATION:..... Causes serious eye irritation. Category 2A.

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.

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shown not to interfere with reproduction. Diglycidyl ether bisphenol-A did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

were negative. In vitro mutagenicity tests were negative in some cases and positive in others.

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

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence - inadequate; animal evidence - sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

STOT (Single Exposure):	Not classified. Does not meet STOT SE criteria.
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STOT (F	Repeated	I Exposure	):	Not classified	<ol> <li>Does not meet STOT RE crite</li> </ol>	eria.
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OTHER HEALTH HAZARD INFORMATION: ...... None known.

#### 12. ECOLOGICAL INFORMATION

Estimate: Not classified. Does not meet acute aquatic classification criteria.

CHRONIC AQUATIC TOXICITY: ...... No specific test data available for the mixture. Calculated Estimate: Aquatic Chronic Category 2.

PERSISTANCE AND BIODEGRADABILITY: ...... No specific test data available for the mixture.

ADDITIONAL ECOTOXICITY INFORMATION: ...... In the liquid, uncured state, this product may be harmful to aquatic life long lasting effects. Prevent release to the environment, sewers and natural waters.

Ingredient	CAS#	Ecotoxicity Classification Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers		Aquatic Chronic Cat. 2
	25085-99-8	
Benzyl alcohol	100-51-6	Not Classified
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	Aquatic Chronic Cat. 2

#### 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

U.N./N.A. NUMBER:..... Not regulated.

SHIPPING NAME:	Not applicable.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.

#### CANADA TDG

U.N./N.A. NUMBER:	Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	

### IMDG

U.N. NUMBER:	UN3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	PG III.
EmS Number:	F-A. S-F
MARINE POLLUTANT	
ICAO/IATA	
	111/2002

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

# 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:

Subject to Section 302 (TPQ)	No data available.
Subject to Section 304 (RQ)	No data available.
Subject to Section 311 or 312	Refer to the health and physical classifications in section 2.
Subject to Section 313	No data available.

#### 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.

COMP	ONENT	NAME
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/CAS NUMBER		STATE CODE
Epichlorohydrin 106-89-8	< 5ppm	<sup>1</sup> CA

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

## 16. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	
APPROVAL DATE:	
SUPERSEDES DATE:	August 15, 2016

#### OTHER HAZARD INFORMATION AND RATING SYSTEMS:

#### HMIS® RATING

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



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

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