## SAFETY DATA SHEET

#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:. 

APPLICABLE PRODUCT CODES: ......865A

CHEMICAL FAMILY: Epoxy resin mixture. INTENDED PRODUCT USES: ..... Epoxy resin. **SDS VERSION:** ......865A-2019a

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:**

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.

#### COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	65-85
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	10-30

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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
	<b>EXTINGUISHING MEDIA:</b> 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> 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:
	<b>ENVIRONMENTAL PRECAUTIONS:</b> Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information.
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:
	<b>SKIN PROTECTION GUIDELINES:</b> Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.
	RESPIRATORY PROTECTION GUIDELINES:
	ADDITIONAL PROTECTIVE MEASURES:

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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.
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	No data available.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Viscous liquid.
COLOR:	
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	. No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	. 1.17
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)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	. No data available
KINEMATIC VISCOSITY:	. > 10000 mm²/s @ 20°C
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 plus 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]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4			
		>2000 mg/kg	2000 mg/kg	No data

ACUTE TOXICITY:based on acute toxicity estimation methods using ingredient data.	. No specific toxicity data exists for this mixture. Classification is
Oral:	. Not classified. Does not meet acute oral toxicity criteria Not classified. Does not meet acute dermal toxicity criteria Not classified. Does not meet acute inhalation toxicity criteria. If product is
heated, vapors generated can cause headache, nausea, dizziness an	
SKIN CORROSION / IRRITATION:	. Causes skin irritation – Category 2.
SERIOUS EYE DAMAGE / IRRITATION:	. Causes serious eye irritation. Category 2A.

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RESPIRATORY SENSITIZATION: Not classified. Does not meet criteria for respiratory sensitizer. 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. SKIN SENSITIZATION: May cause allergic skin reaction. Category 1. 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. MUTAGENICITY: Not classified. Does not meet criteria for germ cell mutagenicity. Diglycidyl ether bisphenol-A in animal mutagenicity studies were negative. In vitro mutagenicity tests were negative in some cases and positive in CARCINOGENICITY: Not classified. Does not meet criteria for carcinogenicity. 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. SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):................ Not classified. Does not meet STOT SE criteria. SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): ....... Not classified. Does not meet STOT RE criteria. ASPIRATION HAZARD: Not classified. Does not meet aspiration toxicity criteria. OTHER HEALTH HAZARD INFORMATION: ...... None known. 12. ECOLOGICAL INFORMATION Estimate: Does not meet acute aquatic toxicity requirements. Estimate: Aquatic Chronic Category 2. 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 25085-99-8 Aquatic Chronic Cat. 2 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

Incinerate, recycle (fuel blending) or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

### TRANSPORTATION INFORMATION

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

Page 4 of 6 Last Revised: 15JAN19 **CANADA TDG** 

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

ICAO/IATA

TECHNICAL SHIPPING NAME: Epoxy Resin.

HAZARD CLASS: Class 9.

PACKING GROUP: PG III.

MARINE POLLUTANT: Yes

MDG

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

 TECHNICAL SHIPPING NAME:
 Epoxy Resin.

 HAZARD CLASS:
 Class 9.

 PACKING GROUP:
 PG III.

 EmS Number:
 F-A, S-F

 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 TSCA Requirements: No data available.

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

106-89-8 < 15ppm

STATE CODE

1CA

#### 16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

SOURCE GOUGEON Brothers, Inc.

SDS CONTACT:

Safety@gougeon.com

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

SUPERSEDES DATE:

SUPERSEDES DATE:

SDS VERSION:

B65A-2019a

#### OTHER HAZARD INFORMATION AND RATING SYSTEMS:

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

#### **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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