# 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-2016b

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	60-100
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 has been held as confidential business information (CBI). Refer to Section 15 for additional information regarding this CBI claim.

# FIRST AID MEASURES immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as precautionary measure. sensitization. RESPONSE: Remove contaminated clothing. Wipe excess from skin. Apply waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur. RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing. ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested. FIRE FIGHTING MEASURES Direct water stream. combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, and carbon dioxide. protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. **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: ...... Stop leak without additional risk. Isolate area. Dike and absorb with inert material (e.g., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual. ENVIRONMENTAL PRECAUTIONS: Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information. **HANDLING AND STORAGE** 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. contaminated clothing before reuse. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity. **EXPOSURE CONTROLS/PERSONAL PROTECTION** EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles. butyl rubber or natural rubber) and full body-covering clothing. exposures below established limits. When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, 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.

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**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:	Colorless.
ODOR:	Mild.
ODOR THRESHOLD:	
pH	No data available
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	> 400°F (204°C) Estimated based on ingredient data.
FLASH POINT:	
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)	.1.17
BULK DENSITY	
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:	. > 10000 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	about the total volatile content of the resin/hardener system.

## 10. STABILITY AND REACTIVITY

STABILITY: Product is stable at normal temperatures and pressures.

**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:

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 and possible respiratory irritation if inhaled in high concentrations.

SKIN CORROSION / IRRITATION: Causes skin irritation – Category 2.

**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.

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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 others.

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 (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: Aquatic Chronic Category 2.

MOBILITY IN SOIL: No specific test data available for the mixture.

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 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: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	Not applicableNot applicableNot applicable.
CANADA TDG	Not applicable.

CANADA IDO	
UN NUMBER:	Not regulated.
SHIPPING NAME:	9
TECHNICAL SHIPPING NAME:	• • •
HAZARD CLASS:	

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ICAO/IATA

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

 TECHNICAL SHIPPING NAME:
 Epoxy Resin.

 HAZARD CLASS:
 Class 9.

 PACKING GROUP:
 PG III.

 MARINE POLLUTANT:
 Yes

**IMDG** 

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 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 STATE CODE

1CA

< 15ppm

# 16. OTHER INFORMATION

REASON FOR ISSUE:

PREPARED BY:

G. M. House

APPROVED BY:

SDS CONTACT:

Safety@gougeon.com

TITLE:

Health, Safety & Environmental Manager

APPROVAL DATE:

SUPERSEDES DATE:

August 18, 2016

SDS VERSION:

Update to Sections 3 and 15 to meet Canada WHMIS 2015 requirements.

G. M. House

Safety@gougeon.com

Health, Safety & Environmental Manager

August 18, 2016

SDS VERSION:

865A-2016b

# OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING NFPA® 704 CODES

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

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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