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	60-100
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	1-10

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.

4. FIRST AID MEASURES

5. FIRE FIGHTING MEASURES

6. 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.

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid.
COLOR:	Colorless.
ODOR:	Mild.
ODOR THRESHOLD:	No data available
pH	No data available
MELTING POINT / FREEZING POINT	
BOILING 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
LOWER EXPLOSIVE LIMIT (LEL)	No data available
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	1.15
BULK DENSITY	9.6 lb./gal. (1.15 kg/L)
VAPOR DENSITY (air = 1)	Heavier than air. 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:	869.5 mm²/s @ 20°C
DECOMPOSITION TEMPERATURE:	No data available.
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
analy racin and hardonar. Bafar to the hardonar CDC for information	about the total valatile contant of the resin/hardoner system

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

mixed with an aliphatic amine will cause irreversible polymerization with significant heat buildup. 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.

CONDITIONS TO AVOID: Avoid excessive heat.

uncontrolled exothermic reactions or when otherwise heated to decomposition.

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]-,		>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)	

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.

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 (Repeated Exposure): Not classified. Does not meet STOT RE criteria.

12. ECOLOGICAL INFORMATION

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:	Not applicable.
HAZARD CLASS:	
PACKING GROUP:	

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:	Class 9.
PACKING GROUP:	
EmS Number:	F-A. S-F
MARINE POLLUTANT	

ICAO/IATA

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

US EPA SARA TITLE III Reporting and Notification Requirements:

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

Canada WHMIS Confidential Business Information (CBI):..... The HMIRA number issued for this CBI claim is #9455. The date of filing is 2015-04-09.

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		STATE CODE
Epichlorohydrin 106-89-8	< 5ppm	¹ CA

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

16. OTHER INFORMATION

REASON FOR ISSUE:	SDS prepared according to the requirements of the US OSHA 1910.1200
HazCom 2012 and Canada Hazardous Products Regulation WHMI	
PREPARED BY:	
APPROVED BY:	G. M. House
SDS CONTACT:	
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	August 15, 2016
SUPERSEDES DATE:	June 1, 2015
SDS VERSION:	105-2016a

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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