SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

APPLICABLE PRODUCT CODES:CLR, CLR-1, CLR-2, CLR-3, CLR-4, CLR-5, CLR-6, CLR-7, CLR-D, CLR-T

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES: Epoxy resin.

PRODUCT RESTRICTIONS: None identified.

MANUFACTURER:

Gougeon Brothers, Inc. 100 Patterson Ave. Bay City, MI 48706, U.S.A.

Phone: 310-882-2120 or 989-684-7286

www.entropyresins.com

EMERGENCY TELEPHONE NUMBERS (24 HRS):

Transportation

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.

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.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25068-38-6	80-100
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	5-10

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Benzyl alcohol	100-51-6	1-5
Benzoic acid, 4[{(methylphenylamino) methylene} amino]-, ethyl ester	57834-33-0	1-5

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as a trade secret. Any ingredient not disclosed may have been determined not to pose a hazard, or may only be present in concentrations that do not require disclosure. Refer to Section 15 for any additional information regarding a CBI claim.

4. FIRST AID MEASURES	
	SYMPTOMS: Causes serious irritation and redness. RESPONSE: Flush es if present and easy to do. Consult a physician as precautionary measure.
	SYMPTOMS: Causes skin irritation. May cause allergic skin reaction and access from skin. Apply waterless skin cleaner and then wash with soap and
FIRST AID FOR INHALATIONRESPONSE: Remove to fresh air if respiratory irritation occurs and k	SYMPTOMS: Not a likely route of exposure under normal conditions of use. keep comfortable for breathing.
FIRST AID FOR INGESTION	SYMPTOMS: No acute adverse health effects expected from amounts all attention if a significant amount is ingested.
5. FIRE FIGHTING MEASURES	
EXTINGUISHING MEDIA: Direct water stream.	SUITABLE: Foam, carbon dioxide (CO ₂), dry chemical. NON-SUITABLE:
FIRE AND EXPLOSION HAZARDS:combustion products of varying composition which may be toxic and phenolics, carbon monoxide, and carbon dioxide.	During a fire, smoke may contain the original materials in addition to /or irritating. Combustion products may include, but are not limited to:
SPECIAL FIRE FIGHTING PROCEDURES:protective equipment. Closed containers may rupture (due to buildu	Wear a self-contained breathing apparatus and complete full-body personal p of pressure) when exposed to extreme heat.
6. ACCIDENTAL RELEASE MEASURES	
EMERGENCY PROCEDURES: appropriate safety and personal protective equipment as indicated in	Keep unnecessary and unprotected personnel from entering area. Use a Section 8.
	Stop leak without additional risk. Isolate area. Dike and absorb with inert m, soapy water or non-flammable, safe solvent may be used to clean residual.
ENVIRONMENTAL PRECAUTIONS: groundwater. See Section 12 for environmental impact information.	Prevent from entering into soil, ditches, sewers, waterways and
7. HANDLING AND STORAGE	
STORAGE TEMPERATURE (min./max.):	40°F (4°C) / 120°F (49°C)
STORAGE: moisture absorption and loss of volatiles. Excessive heat over long particles.	Store in cool, dry place. Store in tightly sealed containers to prevent periods of time will degrade the resin.
contaminated clothing before reuse. Avoid inhalation of vapors from	Avoid all skin and eye contact. Wash thoroughly after handling. Launder a heated product. Precautionary steps should be taken when curing product in causes an exothermic, which in large masses, can produce enough heat to that vary widely in composition and toxicity.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
ENGINEERING CONTROLS: exposures below established limits.	Use with adequate general ventilation and/or local ventilation to keep
EYE PROTECTION GUIDELINES:	Safety glasses with side shields or chemical splash goggles.
SKIN PROTECTION GUIDELINES: butyl rubber or natural rubber) and full body-covering clothing.	Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene,
below established limits, use a NIOSH approved respirator with an o	When ventilation cannot be made adequate enough to keep exposures organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, rator and cartridge supplier to ensure proper selection of respirator and

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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.

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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-	25068-38-6	No data available.
chloro-2,3-epoxypropane		
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	No data available.
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)
Benzoic acid, 4[{(methylphenylamino) methylene} amino]-,	57834-33-0	
ethyl ester		No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid
COLOR:	·
ODOR:	
ODOR:	
pH MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	
FLASH POINT:	>200°F (93°C) Based on ASTM D92 test results from similar product.
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	. No data available
UPPER EXPLOSIVE LIMIT (UEL)	. No data available
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	. 1.13
BULK DENSITY	
VAPOR DENSITY (air = 1)	< 1 mmHg@ 20°C. Estimated based on ingredient data.
EVAPORATION 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:	. 2433 mm ² /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.
	Product will not react by itself. A mass of more than one pound of product nificant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. rease and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.
DECOMPOSITION PRODUCTS:uncontrolled exothermic reactions or when otherwise heated to deco	Carbon monoxide, carbon dioxide and phenolics may be produced during mposition.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
4,4'-Isopropylidenediphenol, oligomeric reaction	25068-38-6	>15,000 mg/kg	>23,000 mg/kg	No data
products with 1-chloro-2,3-epoxypropane		(rat)	(rabbit)	
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	17000 mg/kg (rat)	No data	No data
Benzyl alcohol	100-51-6	1620 mg/kg	No data	>4.18 mg/l;
•				4h aerosol
Benzoic acid, 4[{(methylphenylamino)				
methylene} amino]-, ethyl ester	57834-33-0	1000-2000 mg/kg	No data	No data

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ACUTE TOXICITY:	ino specific toxicity data exists fo	r this mixture. Classification is
Oral:	Not classified. Based on availabl	e data does not meet acute oral
toxicity criteria. Dermal:	Not alocaified Passed on available	la data dage not mest souts
dermal toxicity criteria.	Not classified. Based on available	le data does not meet acute
Inhalation:	Not classified. Based on availabl	le data does not meet acute inhalation
toxicity criteria. If product is heated, vapors generated can cause heads concentrations.	ache, nausea, dizziness and pos	sible respiratory irritation if inhaled in
SKIN CORROSION / IRRITATION:	Causes skin irritation – Category	2.
SERIOUS EYE DAMAGE / IRRITATION:	Causes serious eye irritation. Ca	itegory 2A.
RESPIRATORY SENSITIZATION:	Not classified. Based on available	e data does not meet criteria for
respiratory sensitizer. Repeated exposure to high vapor concentrations the chance of developing allergy symptoms to this product.		
SKIN SENSITIZATION:	May cause allergic skin reaction.	. Category 1.
REPRODUCTIVE TOXICITY:	interfere with reproduction. Digly	cidyl ether bisphenol-A did not cause
MUTAGENICITY: Inutagenicity.	Not classified. Based on availabl	le data does not meet criteria for germ
Diglycidyl ether bisphenol-A in animal mutagenicity studies were negat	tive. In vitro mutagenicity tests w	vere negative in some cases and posit
others.		
CARCINOGENICITY:	Not classified. Based on availabl	e data does not meet criteria for
	considered, the weight of evidence	ce does not show that Diglycidyl ether
carcinogenicity has been reported in animals, when all of the data are of bisphenol-A is carcinogenic. Indeed, the most recent review of the ava concluded that Diglycidyl ether bisphenol-A is not classified as a carcinogenic Epichlorohydrin, an impurity in this product (<5 ppm) has been reported changes in bacteria and cultured human cells. It has been established human carcinogen (Group 2A) based on the following conclusions: hur classified as an anticipated human carcinogen by the National Toxicolo	considered, the weight of evidence illable data by the International A ogen. If to produce cancer in laboratory by the International Agency for Faman evidence — inadequate; anir	ce does not show that Diglycidyl ether gency for Research on Cancer (IARC animals and to produce mutagenic Research on Cancer (IARC) as a prob all evidence – sufficient. It has been
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Benzyl alcohol	100-51-6	Not Classified
Benzoic acid, 4[{(methylphenylamino) methylene} amino]-, ethyl ester	57834-33-0	Not Classified

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

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

UN NUMBER: UN 3082.
SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME: Epoxy Resin.
HAZARD CLASS: Class 9.
PACKING GROUP: PG III

PACKING GROUP: PG III. MARINE POLLUTANT: Yes

IMDG

 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.

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.

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

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Benzyl alcohol 100-51-6 Epichlorohydrin 106-89-8

MA, PA, NJ

1CA

16. OTHER INFORMATION

Update to Section 1.
Gougeon Brothers, Inc.
safety@entropyresins.com
Health, Safety & Environmental Manager
January 30, 2019
May 14, 2019
CLR-2020a

< 5ppm

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