# SAFETY DATA SHEET

Transportation

Non-transportation

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

800-424-9300 (U.S.)

703-527-3887 (International)

CHEMTREC: .....

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	Entropy Resins <sup>®</sup> Compression Molding Epoxy Resin
APPLICABLE PRODUCT CODES:	CPM, ÉR-CPM-QT, ER-CPM-2QT, ER-CPM-GAL, ER-CPM-5GAL, ER-CPM-D, ER-CPM-T
CHEMICAL FAMILY:	Epoxy resin mixture.
INTENDED PRODUCT USES:	Epoxy resin.
PRODUCT RESTRICTIONS:	None identified.
SDS VERSION:	CPM-2023a

#### 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

### 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. <u>Response</u> 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. P362 + P364 Take off contaminated clothing and wash it before re-use. P391 Collect spillage. <u>Disposal</u>

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	1-5

Ethyl alcohol	64-17-5	1-5
Benzyl alcohol	100-51-6	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

#### 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

**STORAGE TEMPERATURE (min./max.):** 40°F (4°C) / 120°F (49°C)

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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butyl rubber or natural rubber) and full body-covering clothing.

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.

Ingredient Name	CAS#	Exposure Limit Information
4,4 <sup>-</sup> Isopropylidenediphenol, oligomeric reaction products with 1- chloro-2,3-epoxypropane	25068-38-6	No data available.
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	No data available.
Ethyl alcohol	64-17-5	1000 ppm TWA (USA-ACGIH)
		Upper Respiratory Tract Irritation Confirmed animal carcinogen with unknown relevance to humans.
		1000 ppm; 1900 mg/m3 TWA – USA OSHA Table Z-1 Limits for air contaminants – 1910.1000.
		1000 ppm; 1900 mg/m3 TWA – NIOSH REL
		1000 ppm STEL – USA ACGIH TLV
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid.
COLOR:	Slight amber.
ODOR:	Mild.
ODOR THRESHOLD:	No data available
pH	No data available
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	
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)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	1.12
BULK DENSITY	9.40 lbs./gal. (1.12 kg/L)
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available.
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for information	

# 10. STABILITY AND REACTIVITY

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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
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
Ethyl alcohol	64-17-5	10,470 mg/kg	30,000 mg/L; 4h	15,800 mg/kg
Benzyl alcohol	100-51-6	1620 mg/kg	No data	>4.18 mg/l;
,				4h aerosol

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based on acute toxicity estimation methods using ingredient data.

Oral: ...... Not classified. Based on available data does not meet acute oral toxicity criteria.

Dermal:..... Not classified. Based on available data does not meet acute dermal toxicity criteria.

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. Based on available data 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.

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.

Diglycidyl ether bisphenol-A in animal mutagenicity studies were negative. In vitro mutagenicity tests were negative in some cases and positive in others.

#### 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.

Ethyl alcohol, present in this product at 1%, is classified as an equivocal tumorgenic agent by RTECS, mouse, oral. Liver - tumors; blood lymphomas, including Hodgkin's disease.

SPECIFIC TARGET	ORGAN TOXICITY (Single Exposure):	Not classified.	Based on available	data does not meet	STOT SE criteria.
SPECIFIC TARGET	ORGAN TOXICITY (Repeated Exposure):	Not classified.	Based on available	data does not meet	STOT RE criteria.
ASPIRATION HAZA	RD:	Not classified.	Based on available	data does not meet	aspiration

toxicity criteria.

OTHER HEALTH HAZARD INFORMATION: ..... None known.

# 12. ECOLOGICAL INFORMATION

Estimate: Based on available data does not meet acute aquatic toxicity criteria.

#### 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
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	25068-38-6	Aquatic Chronic Cat. 2
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Not Classified
Ethyl alcohol	64-17-5	Not Classified
Benzyl alcohol	100-51-6	Not Classified

# 13. DISPOSAL CONSIDERATIONS

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.
HAZARD CLASS:	Not applicable.
PACKING GROUP:	Not applicable.

# CANADA TDG

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

# ICAO/IATA

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

# IMDG

UN NUMBER:	UN 3082.
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	1 -

### 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:

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

COMPONENT NAME /CAS NUMBER Benzyl alcohol		STATE CODE
100-51-6 Ethyl alcohol		MA, PA, NJ
64-17-5 Epichlorohydrin		MA, PA, NJ
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.

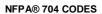
### 16. OTHER INFORMATION

REASON FOR ISSUE:	Change to Section 1.
PREPARED BY:	Gougeon Brothers, Inc.
SDS CONTACT:	safety@entropyresins.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	January 19, 2023
SUPERSEDES DATE:	
SDS VERSION:	CPM-2023a

#### OTHER HAZARD INFORMATION AND RATING SYSTEMS:

# HMIS® RATING





2.



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

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