# SAFETY DATA SHEET

Transportation

Non-transportation

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:
APPLICABLE PRODUCT CODES:
CHEMICAL FAMILY:
INTENDED PRODUCT USES:
PRODUCT RESTRICTIONS:
SDS VERSION:

...... Entropy Resins<sup>®</sup> Optically Brightened Laminating Epoxy Resin BRT, ER-BRT-QT, ER-BRT-2QT, ER-BRT-GAL, ER-BRT-5GAL, ER-BRT-D, ER-BRT-T Epoxy resin mixture. Epoxy resin. None identified. BRT-2023a

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

Poison Hotline: ...... 800-222-1222

703-527-3887 (International)

# 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 (%)
2,2-Bis(4-glycidyloxyphenyl)propane	1675-54-3	80-100
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	5-10

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

# 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

# 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.

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.

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
2,2-Bis(4-glycidyloxyphenyl)propane	1675-54-3	No data available.
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]-,		
ethyl ester	57834-33-0	No data available.

# PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid
COLOR:	
ODOR:	
ODOR THRESHOLD:	No data available
pH	No data available
MELTING POINT / FREEZING POINT	No data available
BOILING POINT (760mm/Hg):	> 400°F (204°C) Estimated based on ingredient data. >200°F (93°C) Based on ASTM D92 test results from similar product.
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for informat	ion about the total volatile content of the resin/hardener system.

#### 10. STABILITY AND REACTIVITY

plus 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 <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
2,2-Bis(4-glycidyloxyphenyl)propane	1675-54-3	>15,000 mg/kg (rat)	>23,000 mg/kg (rabbit)	No data
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

based on acute toxicity estimation methods using ingredient data.

toxicity criteria. If product is heated, vapors generated can cause headache, nausea, dizziness and possible respiratory irritation if inhaled in high concentrations.

SERIOUS EYE DAMAGE / IRRITATION:...... Causes serious eye irritation. Category 2A.

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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. Based on available data does not meet STOT RE criteria.

#### 12. ECOLOGICAL INFORMATION

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
2,2-Bis(4-glycidyloxyphenyl)propane	1675-54-3	Aquatic Chronic Cat. 2
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	Not Classified
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:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
FACKING GROOF	Not applicable.

#### CANADA TDG

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

# ICAO/IATA

UN NUMBER:	UN 3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
MARINE POLLUTANT:	
MDC	

#### IMDG

UN NUMBER:	UN 3082.
SHIPPING NAME:	Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	Class 9.
PACKING GROUP:	PG III.
EmS Number:	F-A. S-F
MARINE POLLUTANT	

# 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.
	No data available.
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 100-51-6 Epichlorohydrin STATE CODE

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:	
	PREPARED BY:	Gougeon Brothers, Inc.
	SDS CONTACT:	safety@entropyresins.com
	TITLE:	Health, Safety & Environmental Manager
	APPROVAL DATE:	January 19, 2023
	SUPERSEDES DATE:	January 3, 2022
	SDS VERSION:	

#### 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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