SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:.....305 Resin

APPLICABLE PRODUCT CODES:ER-305-GAL, ER-305-5GAL, ER-305-D, ER-305-T

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES: Epoxy resin.

PRODUCT RESTRICTIONS: None identified.

SDS VERSION: 305-2023a

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

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.

 ${{\it P280 Wear protective gloves/protective clothing/eye protection/face protection}}.$

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	1-5

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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	
	FIRST AID FOR EYES	
	FIRST AID FOR SKIN	
	FIRST AID FOR INHALATION	
	FIRST AID FOR INGESTION	
5.	FIRE FIGHTING MEASURES	
	EXTINGUISHING MEDIA: SUITABLE: Foam, carbon dioxide (CO ₂), dry chemical. NON-SUITABLE: Direct water stream.	
	FIRE AND EXPLOSION HAZARDS:	
	SPECIAL FIRE FIGHTING PROCEDURES:	
6.	ACCIDENTAL RELEASE MEASURES	
	EMERGENCY PROCEDURES: 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:	
	ENVIRONMENTAL PRECAUTIONS: ————————————————————————————————————	
7.	HANDLING AND STORAGE	
	STORAGE TEMPERATURE (min./max.):	
	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.	
	HANDLING PRECAUTIONS:	
8.	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	ENGINEERING CONTROLS:	
	EYE PROTECTION GUIDELINES:	
	SKIN PROTECTION GUIDELINES:	
	RESPIRATORY PROTECTION GUIDELINES:	
	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	

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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
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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Viscous liquid.
COLOR:	Clear.
ODOR:	Mild.
ODOR THRESHOLD:	
pH	No data available
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	> 400°F (204°C) Estimated based on ingredient data.
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)	No data available
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	1.15
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	
	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener. Refer to the hardener SDS for information	n 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 significant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. increase and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.
DECOMPOSITION PRODUCTS:	Carbon monoxide, carbon dioxide and phenolics may be produced during

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

uncontrolled exothermic reactions or when otherwise heated to decomposition.

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

ACUTE TOXICITY:based on acute toxicity estimation methods using ingredient data.	. No specific toxicity data exists for this mixture. Classification is
,	. Not classified. Based on available data does not meet acute oral
	. Not classified. Based on available data does not meet acute
Inhalation:	. Not classified. Based on available data does not meet acute inhalation dache, nausea, dizziness and possible respiratory irritation if inhaled in high
SKIN CORROSION / IRRITATION:	. Causes skin irritation – Category 2.
SERIOUS EYE DAMAGE / IRRITATION:	. Causes serious eye irritation. Category 2A.

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RESPIRATORY SENSITIZATION:		
SKIN SENSITIZATION:May	cause allergic skin reaction.	Category 1.
REPRODUCTIVE TOXICITY:	ere with reproduction. Diglyc	cidyl ether bisphenol-A did not cause birth
MUTAGENICITY: Not of mutagenicity.	classified. Based on available	e data does not meet criteria for germ cell
Diglycidyl ether bisphenol-A in animal mutagenicity studies were negative. others.	In vitro mutagenicity tests w	ere negative in some cases and positive in
CARCINOGENICITY: Not carcinogenicity.	classified. Based on available	e data does not meet criteria for
Many studies have been conducted to assess the potential carcinogenicity of carcinogenicity has been reported in animals, when all of the data are consibisphenol-A is carcinogenic. Indeed, the most recent review of the available concluded that Diglycidyl ether bisphenol-A is not classified as a carcinogen	dered, the weight of evidence a data by the International Ag	e does not show that Diglycidyl ether
Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to p changes in bacteria and cultured human cells. It has been established by th human carcinogen (Group 2A) based on the following conclusions: human classified as an anticipated human carcinogen by the National Toxicology P would result in measurable exposure concentrations to this substance.	ne International Agency for R evidence – inadequate; anim	esearch on Cancer (IARC) as a probable nal evidence – sufficient. It has been
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure): Not of	classified. Based on available	e data does not meet STOT SE criteria.
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): Not of	classified. Based on available	e data does not meet STOT RE criteria.
ASPIRATION HAZARD: Not of toxicity criteria.	classified. Based on available	e data does not meet aspiration
OTHER HEALTH HAZARD INFORMATION:None	e known.	
ECOLOGICAL INFORMATION		
ACUTE AQUATIC TOXICITY:		the mixture. Calculated
CHRONIC AQUATIC TOXICITY:	pecific test data available for	the mixture. Calculated
PERSISTANCE AND BIODEGRADABILITY: No s	pecific test data available for	the mixture.
MOBILITY IN SOIL: No s	pecific test data available for	the mixture.
ADDITIONAL ECOTOXICITY INFORMATION: In the aquatic life long lasting effects. Prevent release to the environment, sewers		roduct may be harmful to
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

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

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UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	
CANADA TDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	
ICAO/IATA UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: MARINE POLLUTANT:	Environmentally hazardous substance, liquid, n.o.s. Epoxy Resin. Class 9. PG III.
IMDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP: EmS Number: MARINE POLLUTANT	Environmentally hazardous substance, liquid, n.o.s. Epoxy Resin. Class 9. PG III. F-A, S-F

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

< 5ppm

STATE CODE

1CA

16. OTHER INFORMATION

REASON FOR ISSUE:

Changes to Section 1.

PREPARED BY:

SDS CONTACT:

Safety @ entropyresins.com

 APPROVAL DATE:
 June 1, 2023

 SUPERSEDES DATE:
 January 3, 2022

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

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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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