SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:Entropy Resins® Clear Extra Fast Hardener

APPLICABLE PRODUCT CODES:CLX, EH-CLX-PT, EH-CLX-QT, EH-CLX-2QT, EH-CLX-GAL, EH-CLX-2.5GAL, EH-CLX-5GAL,

EH-CLX-HD, EH-CLX-D, EH-CLX-T

CHEMICAL FAMILY:Polyamine mixture.

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

CHEMTREC:800-424-9300 (U.S.) 703-527-3887 (International)

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

2. HAZARDS IDENTIFICATION

Classification of Substance or Mixture

Acute Toxicity, Oral, Category 4 Skin corrosion/irritation, Category 1B Skin sensitizer, Category 1 Eye damage/irritation, Category 1 Acute aquatic toxicity, Category 3 Chronic aquatic toxicity, Category 3

Label Elements

Hazard Pictogram(s):



Signal Word:

DANGER

Hazard Statements:

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

Precautionary Statements:

Prevention

P260 Do not breathe dust/fume/mist/gas/vapors/spray

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

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

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse or wash skin with soap and water (or shower).

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

P310 Immediately call POISON CONTROL CENTER or doctor

P313 + P333 If skin irritation or rash occurs: Get medical attention/advice

P362 + P364 Take off contaminated clothing and wash it before reuse

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents and container according to local, state, national and International regulations

Other Hazards

None known.

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3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
1,3-cyclohexanedimethanamine	2579-20-6	30-60
Benzyl alcohol	100-51-6	10-30
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chromethyl) oxirane and 1,3-cyclohexanedimethanamine	60112-98-3	10-30
Isophoronediamine	2855-13-2	1-5

The exact chemical identity and/or exact percentage (concentration) of each ingredient may be held as confidential business information (CBI). Any ingredient not disclosed in this section may have been determined not to be hazardous to health or the environment, or it may be present at a level below its disclosure threshold.

4.	FIRST AID MEASURES
	FIRST AID FOR EYES
	FIRST AID FOR SKIN
	FIRST AID FOR INHALATION
	FIRST AID FOR INGESTION
	not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.
5.	FIRE FIGHTING MEASURES
	EXTINGUISHING MEDIA:
	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.): 40°F (4°C) / 90°F (32°C).
	STORAGE:

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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:	Chemical splash-proof goggles or face shield.
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 organ specific workplace conditions. Consult with your respirator and cartrid	When ventilation cannot be made adequate enough to keep exposures nic vapor, organic vapor + P100, or multi-contaminant cartridge, depending on ige supplier to ensure proper selection of respirator and cartridge based on and select a respirator according the guidelines established in OSHA

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
1,3-cyclohexanedimethanamine	2579-20-6	No data available
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chromethyl) oxirane and 1,3-	60112-98-3	
cyclohexanedimethanamine		No data available
Isophoronediamine	2855-13-2	No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid.
COLOR:	Clear
ODOR:	
ODOR THRESHOLD:	No data available
pH	11.1
MELTING POINT / FREEZING POINT	No data.
BOILING POINT (760mm/Hg):	> 400°F (204°C)
FLASH POINT:	Estimated > 200°F (93°C) estimated based similar product.
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	No data.
UPPER EXPLOSIVE LIMIT (UEL)	No data.
VAPOR PRESSURE	No data.
SPECIFIC GRAVITY/DENSITY (water = 1)	1.03
BULK DENSITY	8.58 lbs./gal. (1.03 kg/L)
VAPOR DENSITY (air = 1)	
EVAPORATION RATE (Butyl Acetate = 1)	No data.
WATER SOLUBILITY (% BY WT.)	No data.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	No data available.
% VOLATILE BY WEIGHT:	ASTM 2369-07 was used to determine the Volatile Matter Content of mixed
epoxy resin and hardener. The combined VOC content for the resin a	and hardener system is listed below.

VOC Content

Resin/Hardener	(q/L)	(lbs/qal)
BRT / CLX	10.90	0.09

10. STABILITY AND REACTIVITY

STABILITY:	Product is stable at normal temperatures and pressures.

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11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
1,3-cyclohexanedimethanamine	2579-20-6	700-780 mg/kg	1700 mg/kg	No data
				>4.18 mg/l
Benzyl alcohol	100-51-6	1620 mg/kg	No data	4 h aerosol
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chromethyl) oxirane and				
1,3-cyclohexanedimethanamine	60112-98-3	Refer to 1,3-cyclohe	xanedimethanamine for	this data.
		•		>5.01 mg/l 4h
Isophoronediamine	2855-13-2	1030 mg/kg	>2000	mist

ACUTE TOXICITY: based on acute toxicity estimation methods using ingredient dat	No specific toxicity data exists for this mixture. Classification is
Oral:	a. Category 4 - Harmful if swallowed. May result in gastrointestinal
tract irritation, pain and possible burns. Dermal:	Not classified. Based on available data does not meet
Inhalation:	Not classified. Based on available data does not meet
SKIN CORROSION / IRRITATION:immediate.	Category 1A - Causes severe skin burns. Effects may be
SERIOUS EYE DAMAGE / IRRITATION:	Category 1 - Causes serious eye damage.
RESPIRATORY SENSITIZATION:	Not classified. Based on available data does not meet
SKIN SENSITZIATION:	Category 1 - May cause allergic skin reaction.
REPRODUCTIVE TOXICITY:	Not classified. Based on available data does not meet classification criteria.
MUTAGENICITY:	Not classified. Based on available data does not meet classification criteria.
CARCINOGENICITY:	Not classified. Based on available data does not meet classification criteria.
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):	Not classified. Based on available data does not meet classification criteria.
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)	: Not classified. Based on available data does not meet classification criteria.
ASPIRATION HAZARD:	Not classified. Based on available data does not meet classification criteria.
	This product is corrosive to skin and mucous membrane tissues. As a result n of vapors/aerosol/mist may also be corrosive to the respiratory system.

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY: Estimate: Aquatic Acute Category 3. Harmful to aquatic life. Avoid	
CHRONIC AQUATIC TOXICITY:	
PERSISTANCE AND BIODEGRADABILITY:	No specific test data available for the mixture.
MOBILITY IN SOIL:	No specific test data available for the mixture.
ADDITIONAL ECOTOXICITY INFORMATION:aquatic life with long lasting effects. Prevent release to the enviro	

Ingredient	CAS#	Ecotoxicity Classification Information
1,3-cyclohexanedimethanamine	2579-20-6	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3

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Benzyl alcohol	100-51-6	Not classified
Phenol, 4,4'-(1-methylethylidene) bis-,		
polymer with 2-(chromethyl) oxirane and 1,3-		
cyclohexanedimethanamine	60112-98-3	Refer to 1,3-cyclohexanedimethanamine for this data.
Isophoronediamine	2855-13-2	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3

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	NUM
SHI	PPIN

......UN 2735 PING NAME:......Polyamines, liquid, corrosive, n.o.s. TECHNICAL SHIPPING NAME: 1,3-cyclohexanedimethanamine HAZARD CLASS: Class 8

PACKING GROUP: PG III MARINE POLLUTANT: No

CANADA TDG

UN NUMBER: UN 2735 SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s. HAZARD CLASS: Class 8

PACKING GROUP: PG III MARINE POLLUTANT: No

IMDG

UN NUMBER:UN 2735 SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s. TECHNICAL SHIPPING NAME: 1,3-cyclohexanedimethanamine HAZARD CLASS: Class 8

PACKING GROUP: PG III EmS Number: F-A, S-B MARINE POLLUTANT No

SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s.

HAZARD CLASS: Class 8 PACKING GROUP: PG III

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant.
Europe	EINECS (or REACH)	No data available on CAS# 60112-98-3
Canada	CEPA (DSL/NDSL)	CAS# 60112-98-3 listed on NDSL only.
Australia	AICS	No data available on CAS# 60112-98-3
Japan	ENCS	No data available on CAS# 60112-98-3
South Korea	KECI	No data available on CAS# 60112-98-3
China	IECSC	All ingredients are listed or otherwise compliant.
Philippines	PICCS	No data available on CAS# 60112-98-3

US EPA TSCA Specific 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 304 (RQ) No data available.

US STATE REGULATORY INFORMATION:

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The following chemicals 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

Benzyl alcoho

1,3-cyclohexanedimethanamine

2579-20-6

STATE CODE

MA, PA, NJ

PA, NJ

16. OTHER INFORMATION

 REASON FOR ISSUE:
 Change to Section1.

 PREPARED BY:
 Gougeon Brothers, Inc.

 SDS CONTACT:
 safety@gougeon.com

TITLE: Health, Safety & Environmental Manager

 APPROVAL DATE:
 January 19, 2023

 SUPERSEDES DATE:
 January 3, 2022

 SDS VERSION:
 CLX-2023a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

HEALTH:	3
FLAMMABILITY:	1
PHYSICAL HAZARD:	0
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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