SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® INF-114 Resin

INF-114-QC-5, INF-114-6, INF-114-QC-6

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES:......Infusion resin for composites.

PRODUCT RESTRICTIONS:None identified.

MANUFACTURER:

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

Phone: 888-377-6738 or 989-684-7286

www.prosetepoxy.com

EMERGENCY TELEPHONE NUMBERS (24 HRS):

Transportation

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

Non-transportation

Poison Hotline: 800-222-1222

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.

P 280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P501 Dispose of contents/container in accordance with local, regional and international regulations.

Other Hazards

None known

COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	80-100

Last Revised: 06SEP22

1,4-Butanediol diglycidylether	2425-79-8	5-10
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	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
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: 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.):
	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: Use with adequate general ventilation and/or local ventilation to keep exposures below established limits.
	EYE PROTECTION GUIDELINES:
	SKIN PROTECTION GUIDELINES:
	RESPIRATORY PROTECTION GUIDELINES:

Page 2 of 6

Last Revised: 06SEP22

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
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,		
polymers	25085-99-8	No data available.
1,4-Butanediol diglycidylether	2425-79-8	No data available.
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2	No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Viscous liquid.
COLOR:	
ODOR:	. Mild.
ODOR THRESHOLD:	. No data available
pH	. No data available
MELTING POINT / FREEZING POINT	. No data available
BOILING POINT (760mm/Hg):	> 400°F (204°C)
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	. No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	
VAPOR DENSITY (air = 1)	. Heavier than air. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	. No data available
WATER SOLUBILITY (% BY WT.)	
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	about the total volatile content of the resin/hardener system.

10. STABILITY AND REACTIVITY

STABILITY: Product is stable at normal temperatures and pressures.

REACTIVITY/HAZARDOUS REACTIONS:Product will not react by itself. A mass of more than one pound of product plus an aliphatic amine will cause irreversible polymerization with significant heat buildup. Strong acids, bases, amines and mercaptans can cause polymerization.

INCOMPATIBILITIES: 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.

11. TOXICOLOGICAL AND HAZARD ENDPOINT INFORMATION

Component Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-,		>15,000 mg/kg	>23,000 mg/kg	No data
polymers	25085-99-8	(rat)	(rabbit)	
1,4-Butanediol diglycidylether	2425-79-8	1134 mg/kg	1130 mg/kg	11.3 mg/l 4h
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	68609-97-2			
		17100 mg/kg	>2000	No data

ACUTE TOXICITY: based on acute toxicity estimation methods using ingredient data.	No specific toxicity data exists for this mixture. Classification is
Oral:	Not classified. Does not meet acute oral toxicity criteria Not classified. Does not meet acute dermal toxicity criteria.

Page 3 of 6

		Not classified. Does not meet acute inhalation toxicity criteria. If product is d possible respiratory irritation if inhaled in high concentrations.				
SKIN CORROSION / IRRITATION:	Causes skin	rritation – Category 2.				
SERIOUS EYE DAMAGE / IRRITATION:	Causes serio	us eye irritation. Category 2A.				
RESPIRATORY SENSITIZATION: Repeated exposure to high vapor concentrations may caus developing allergy symptoms to this product.	Not classified e irritation of pre-existing	Not classified. Does not meet criteria for respiratory sensitizer. of pre-existing lung allergies and increase the chance of				
SKIN SENSITIZATION:	May cause a	lergic skin reaction. Category 1.				
REPRODUCTIVE TOXICITY:shown not to interfere with reproduction. Diglycidyl ether bis pregnant rabbits were exposed by skin contact, the most like	sphenol-A did not cause	pirth defects or other adverse effects on the fetus when				
MUTAGENICITY:	Not classified	. Does not meet criteria for germ cell mutagenicity.				
Diglycidyl ether bisphenol-A in animal mutagenicity studies others.	s were negative. In vitro	nutagenicity tests were negative in some cases and positive in				
CARCINOGENICITY:	Not classified	. Does not meet criteria for carcinogenicity.				
carcinogenicity has been reported in animals, when all of the bisphenol-A is carcinogenic. Indeed, the most recent revie	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 be changes in bacteria and cultured human cells. It has been human carcinogen (Group 2A) based on the following conc classified as an anticipated human carcinogen by the Natio would result in measurable exposure concentrations to this	established by the Intern lusions: human evidence nal Toxicology Program (ational Agency for Research on Cancer (IARC) as a probable e – inadequate; animal evidence – sufficient. It has been				
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure	SPECIFIC TARGET ORGAN TOXICITY (Single Exposure): Not classified. Does not meet STOT SE criteria.					
SPECIFIC TARGET ORGAN TOXICITY (Repeated Expos	sure): Not classified	. Does not meet STOT RE criteria.				
ASPIRATION HAZARD:	ASPIRATION HAZARD:					
OTHER HEALTH HAZARD INFORMATION:	OTHER HEALTH HAZARD INFORMATION:None known.					
12. ECOLOGICAL INFORMATION						
ACUTE AQUATIC TOXICITY: Estimate: Not classified. Does not meet acute aquatic class		est data available for the mixture. Calculated				
CHRONIC AQUATIC TOXICITY:Estimate: Aquatic Chronic Category 2.	No specific te	est data available for the mixture. Calculated				
PERSISTANCE AND BIODEGRADABILITY:	No specific te	st data available for the mixture.				
MOBILITY IN SOIL:	No specific te	st data available for the mixture.				
ADDITIONAL ECOTOXICITY INFORMATION:aquatic life long lasting effects. Prevent release to the envir						
Ingredient	CAS#	Ecotoxicity Classification Information				
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2				
1,4-Butanediol diglycidylether	2425-79-8	Aquatic Chronic Cat. 3				
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.

Page 4 of 6

Last Revised: 06SEP22

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.

IMDG

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.

 EmS Number:
 F-A, S-F

 MARINE POLLUTANT
 Yes

ICAO/IATA

TECHNICAL SHIPPING NAME: Epoxy Resin.

HAZARD CLASS: Class 9.

PACKING GROUP: PG III.

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	Not determined.

Canada WHMIS Confidential Business Information (CBI):......No data available.

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

STATE CODE

Epichlorohydrin 106-89-8

¹CA

< 5ppm

16. OTHER INFORMATION

REASON FOR ISSUE: Product codes added in Section 1.

Page 5 of 6 Last Revised: 06SEP22

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

PREPARED BY:	Gougeon Brothers, Inc.
SDS CONTACT:	
	Health, Safety & Environmental Manager
APPROVAL DATE:	September 6, 2022
SUPERSEDES DATE:	
SDS VERSION:	

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

Information in this document is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Gougeon Brothers, Inc. The data on this sheet is related only to the specific material designated herein. Gougeon Brothers, Inc. assumes no legal responsibility for use or reliance upon these data.

Page 6 of 6 Last Revised: 06SEP22