SAFETY DATA SHEET

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® M1047 Resin

APPLICABLE PRODUCT CODES:M1047

CHEMICAL FAMILY: Epoxy resin mixture.

INTENDED PRODUCT USES: Epoxy resin for adhesives, castings and composites.

PRODUCT RESTRICTIONS: None identified. **SDS VERSION:**M1047-2019a

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.

P280 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.

Disposal

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	65-85
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	10-30

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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.

FIRST AID MEASURES immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a physician as precautionary measure. sensitization. RESPONSE: Remove contaminated clothing. Wipe excess from skin. Apply waterless skin cleaner and then wash with soap and water. Consult a physician if effects occur. RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing. ingested under normal conditions of use. RESPONSE: Seek medical attention if a significant amount is ingested. FIRE FIGHTING MEASURES Direct water stream. combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: phenolics, carbon monoxide, and carbon dioxide. protective equipment. Closed containers may rupture (due to buildup of pressure) when exposed to extreme heat. 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. material (e.q., sand) and collect in a suitable, closed container. Warm, soapy water or non-flammable, safe solvent may be used to clean residual. ENVIRONMENTAL PRECAUTIONS:...... Prevent from entering into soil, ditches, sewers, waterways and groundwater. See Section 12 for environmental impact information. HANDLING AND STORAGE 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. contaminated clothing before reuse. Avoid inhalation of vapors from heated product. Precautionary steps should be taken when curing product in large quantities. When mixed with epoxy curing agents this product causes an exothermic, which in large masses, can produce enough heat to damage or ignite surrounding materials and emit fumes and vapors that vary widely in composition and toxicity. **EXPOSURE CONTROLS/PERSONAL PROTECTION** exposures below established limits. EYE PROTECTION GUIDELINES: Safety glasses with side shields or chemical splash goggles. butyl rubber or natural rubber) and full body-covering clothing. below established limits, use a NIOSH approved respirator with an organic vapor cartridge, or organic vapor cartridge + P100 particulate filter, depending on specific workplace conditions. Consult with your respirator and cartridge supplier to ensure proper selection of respirator and 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

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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.
Formaldehyde, polymer with (chloromethyl)oxirane and phenol	9003-36-5	No data available.

9. PHYSICAL AND CHEMICAL PROPERTIES

DUVEICAL FORM.	Viacous liquid
PHYSICAL FORM:	
COLOR:	
ODOR:	
ODOR THRESHOLD:	
pH	
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	No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	
BULK DENSITY	9.67 lbs./gal. (1.16 kg/L)
VAPOR DENSITY (air = 1)	< 1 mmHg@ 20°C. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data available
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	No data available
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	
sport, real and marginer state in the flat defined of the fine flat defined on the fla	a de de la

10. STABILITY AND REACTIVITY

STABILITY: Product is stable at r	normal temperatures and pressures.
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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]-,	25085-99-8	>15,000 mg/kg	>23,000 mg/kg	No data
polymers		(rat)	(rabbit)	
Formaldehyde, polymer with				
(chloromethyl)oxirane and phenol	9003-36-5	>2000 mg/kg	2000 mg/kg	No data

ACUTE TOXICITY:	No specific toxicity data exists for this mixture. Classification is
based on acute toxicity estimation methods using ingredient data.	
	Not classified. Based on available data does not meet acute oral
toxicity criteria.	
•	Not classified. Based on available data does not meet acute
dermal toxicity criteria.	The following passes of a valuable data assessment most death
	Not classified. Based on available data does not meet acute inhalation
	eadache, nausea, dizziness and possible respiratory irritation if inhaled in high
concentrations.	adactic, fladsca, dizzificss and possible respiratory initiation in initialed in high
concentrations.	
SKIN CORROSION / IRRITATION:	Catagory 2 Causes skip irritation
SKIN CORROSION/ IRRITATION	Category 2 - Causes skirt irritation.
SEDIOUS EVE DAMAGE / IDDITATION:	Catagory 2A Causas sorious avairritation
SERIOUS EYE DAMAGE / IRRITATION:	Category 2A - Causes serious eye imitation.

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SKIN SENSITIZATION:	Catego	ory 1 - May cause allergic s	skin reaction.
REPRODUCTIVE TOXICITY:	Not cla	assified. Based on available	e data does not meet classification crit
Diglycidyl ether bisphenol-A, in animal studies, has been shown defects or other adverse effects on the fetus when pregnant rab pregnant rats or rabbits were exposed orally.			
MUTAGENICITY: mutagenicity.	Not cla	assified. Based on available	e data does not meet criteria for germ
Diglycidyl ether bisphenol-A in animal mutagenicity studies were others.	e negative. Ir	n vitro mutagenicity tests w	ere negative in some cases and positi
CARCINOGENICITY: carcinogenicity.	Not cla	assified. Based on available	e data does not meet criteria for
Many studies have been conducted to assess the potential carcinogenicity has been reported in animals, when all of the da bisphenol-A is carcinogenic. Indeed, the most recent review of concluded that Diglycidyl ether bisphenol-A is not classified as a	ta are conside the available	ered, the weight of evidence	e does not show that Diglycidyl ether
Epichlorohydrin, an impurity in this product (<5 ppm) has been rechanges in bacteria and cultured human cells. It has been estal human carcinogen (Group 2A) based on the following conclusion classified as an anticipated human carcinogen by the National T would result in measurable exposure concentrations to this substitution.	blished by the ns: human ev oxicology Pro	International Agency for Richard International Agency for Richard International Intern	Research on Cancer (IARC) as a proba nal evidence – sufficient. It has been
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure):	Not cla	assified. Based on available	e data does not meet STOT SE criteri
SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure)	: Not cla	assified. Based on available	e data does not meet STOT RE criteri
ASPIRATION HAZARD: toxicity criteria.	Not cla	assified. Based on available	e data does not meet aspiration
OTHER HEALTH HAZARD INFORMATION:	None I	known.	
ECOLOGICAL INFORMATION			
ACUTE ACUATIC TOVICITY:			
ACUTE AQUATIC TOXICITY:Estimate: Based on available data does not meet acute aquatic			the mixture. Calculated
	toxicity requir	ements.	
Estimate: Based on available data does not meet acute aquatic CHRONIC AQUATIC TOXICITY:	toxicity requir No spe	ements. ecific test data available for	the mixture. Calculated
Estimate: Based on available data does not meet acute aquatic CHRONIC AQUATIC TOXICITY:	toxicity requir No spe No spe s No spe	ements. ecific test data available for ecific test data available for	the mixture. Calculated the mixture. Based on
Estimate: Based on available data does not meet acute aquatic CHRONIC AQUATIC TOXICITY: Estimate: Aquatic Chronic Category 2. PERSISTANCE AND BIODEGRADABILITY: available data does not meet acute aquatic toxicity requirements MOBILITY IN SOIL:	toxicity requir	ements. ecific test data available for ecific test data available for ecific test data available for	the mixture. Calculated the mixture. Based on the mixture. Based on
Estimate: Based on available data does not meet acute aquatic CHRONIC AQUATIC TOXICITY:	toxicity requir	ements. ecific test data available for ecific test data available for ecific test data available for	the mixture. Calculated the mixture. Based on the mixture. Based on
Estimate: Based on available data does not meet acute aquatic CHRONIC AQUATIC TOXICITY:	toxicity requir No spe s No spe s No spe s	ements. ecific test data available for liquid, uncured state, this pend natural waters.	the mixture. Calculated the mixture. Based on the mixture. Based on roduct may be harmful to Ecotoxicity Classification

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

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US DOT	
UN NUMBER:	. Not regulated.
SHIPPING NAME:	
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
	· · · · · · · · · · · · · · · · · · ·
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:	. Yes
IMDG	
UN NUMBER:	. UN 3082.
SHIPPING NAME:	. Environmentally hazardous substance, liquid, n.o.s.
TECHNICAL SHIPPING NAME:	
HAZARD CLASS:	
PACKING GROUP:	
EmS Number:	-
MARINE POLLUTANT	
WW. W. W. L. L. OLLO 17 W. V	. 100

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.

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

STATE CODE

1CA 106-89-8 < 5ppm

16. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	•
SDS CONTACT:	safety@gougeon.com

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

TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	
SUPERSEDES DATE:	· · · · · · · · · · · · · · · · · · ·
SDS VERSION:	M1047-2019a

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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