SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® ACE-166 Resin

APPLICABLE PRODUCT CODES:ACE-166, ACE-166-1, ACE-166-2, ACE-166-4

CHEMICAL FAMILY: Epoxy resin mixture.

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

PRODUCT RESTRICTIONS: None identified. SDS VERSION: ACE-166-2019a

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

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.

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

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

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

Continue rinsing.

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 (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60-80
Phenol-Formaldehyde Polymer Glycidyl Ether	28064-14-4	10-30

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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 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: 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: Stop leak without additional risk. Isolate area. Dike and absorb with inert material (e.g., 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.
7.	HANDLING AND STORAGE
	STORAGE TEMPERATURE (min./max.):
	STORAGE:
	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: Safety glasses with side shields or chemical splash goggles.
	SKIN PROTECTION GUIDELINES: Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.
	RESPIRATORY PROTECTION GUIDELINES:

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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.

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
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Liquid.
COLOR:	. Colorless.
ODOR:	. Mild.
ODOR THRESHOLD:	. No data available
pH	. No data available
MELTING POINT / FREEZING POINT	. No data available
BOILING POINT (760mm/Hg):	
FLASH POINT:	. >200°F (93°C). Estimated based on ingredient data.
AUTO IGNITION TEMPERATURE	
LOWER EXPLOSIVE LIMIT (LEL)	. No data available
UPPER EXPLOSIVE LIMIT (UEL)	. No data available
VAPOR PRESSURE	
SPECIFIC GRAVITY/DENSITY (water = 1)	. 1.17
BULK DENSITY	. 9.7 lbs./gal. (1.17kg/L)
VAPOR DENSITY (air = 1)	. Heavier than air. Estimated based on ingredient data.
EVAPORATIOIN RATE (Butyl Acetate = 1)	
WATER SOLUBILITY (% BY WT.)	
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	. No data available
KINEMATIC VISCOSITY:	
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	. 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.
	Product will not react by itself. A mass of more than one pound of product nificant heat buildup. Strong acids, bases, amines and mercaptans can cause
	Strong acids, bases, amines and mercaptans can cause polymerization. ease and pressure build up. If such a condition were to occur in a drum, the
CONDITIONS TO AVOID:	Avoid excessive heat.
DECOMPOSITION PRODUCTS: uncontrolled exothermic reactions or when otherwise heated to decor	Carbon monoxide, carbon dioxide and phenolics may be produced during mposition.

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]-, polymers	25085-99-8	>15,000 mg/kg (rat)	>23,000 mg/kg (rabbit)	No data
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	>2,000 mg/kg (rat)	2,000 mg/kg (rat)	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

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	No specific toxicity data exists for this mixture. Classification is
	Not classified. Based on available data does not meet acute oral
toxicity criteria. Dermal:	Not classified. Based on available data does not meet acute
dermal toxicity criteria. Inhalation:	Not classified. Based on available data does not meet acute inhalation
toxicity criteria. If product is heated, vapors generated can cause he concentrations.	eadache, nausea, dizziness and possible respiratory irritation if inhaled in high
SKIN CORROSION / IRRITATION:	Category 2 - Causes skin irritation.
SERIOUS EYE DAMAGE / IRRITATION:	Category 2A - Causes serious eye irritation.
RESPIRATORY SENSITIZATION: respiratory sensitizer. Repeated exposure to high vapor concentrati the chance of developing allergy symptoms to this product.	Not classified. Based on available data does not meet criteria for ons may cause irritation of pre-existing lung allergies and increase
SKIN SENSITIZATION:	Category 1 - May cause allergic skin reaction.
REPRODUCTIVE TOXICITY:reproductive toxicity.	Not classified. Based on available data does not meet criteria for
	t to interfere with reproduction. Diglycidyl ether bisphenol-A did not cause birth were exposed by skin contact, the most likely route of exposure, or when
MUTAGENICITY:mutagenicity.	Not classified. Based on available data does not meet criteria for
Diglycidyl ether bisphenol-A in animal mutagenicity studies were ne others.	egative. In vitro mutagenicity tests were negative in some cases and positive in
CARCINOGENICITY: carcinogenicity.	Not classified. Based on available data does not meet criteria for
No ingredient of this product present at levels greater than or equal IARC.	to 0.1% is identified as a carcinogen or potential carcinogen by OSHA, NTP or
carcinogenicity has been reported in animals, when all of the data a	genicity of diglycidyl ether of bisphenol-A. Although some weak evidence of are considered, the weight of evidence does not show that Diglycidyl ether available data by the International Agency for Research on Cancer (IARC) has reignagen
•	icinogen.
changes in bacteria and cultured human cells. It has been establish human carcinogen (Group 2A) based on the following conclusions: classified as an anticipated human carcinogen by the National Toxic	orted to produce cancer in laboratory animals and to produce mutagenic ned by the International Agency for Research on Cancer (IARC) as a probable human evidence – inadequate; animal evidence – sufficient. It has been cology Program (NTP). Note: It is unlikely that normal use of this product
changes in bacteria and cultured human cells. It has been establish human carcinogen (Group 2A) based on the following conclusions: classified as an anticipated human carcinogen by the National Toxic would result in measurable exposure concentrations to this substantial.	orted to produce cancer in laboratory animals and to produce mutagenic ned by the International Agency for Research on Cancer (IARC) as a probable human evidence – inadequate; animal evidence – sufficient. It has been cology Program (NTP). Note: It is unlikely that normal use of this product
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Ingredient	CAS#	Ecotoxicity Classification Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers		Aquatic Chronic Cat. 2
	25085-99-8	
Phenol-formaldehyde polymer glycidyl ether	28064-14-4	Aquatic Chronic Cat. 2
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. PACKING GROUP: Not applicable.

CANADA TDG

PACKING GROUP: Not applicable.

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

SHIPPING NAME: Environmentally hazardous substance, liquid, n.o.s. TECHNICAL SHIPPING NAME: Epoxy Resin. HAZARD CLASS: Class 9. PACKING GROUP: PG III. MARINE POLLUTANT: Yes

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)	CAS# 57834-33-0 listed on NDSL only. All other ingredients 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:

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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
Benzyl alcohol
100-51-6

STATE CODE

¹CA

MA, PA, NJ

16. OTHER INFORMATION

REASON FOR ISSUE:	New product.
PREPARED BY:	
SDS CONTACT:	safety@gougeon.com
TITLE:	Health, Safety & Environmental Manager
APPROVAL DATE:	October 22, 2019
SUPERSEDES DATE:	N/A
SDS VERSION:	ACF-166-2019a

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