# SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® PDA-542 Black Pigment

APPLICABLE PRODUCT CODES: .....PDA-542

CHEMICAL FAMILY: ......Pigmented epoxy resin mixture.

INTENDED PRODUCT USES: ...... Pigment for epoxy resins.

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

### 2. HAZARDS IDENTIFICATION

# Classification of Substance or Mixture

Skin corrosion/irritation, Category 2 Skin sensitizer, Category 1 Eye damage/irritation, Category 2 Germ cell mutagenicity, Category 2 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

H341 Suspected of causing genetic defects

H411 Toxic to aquatic life with long lasting effects

## **Precautionary Statements:**

#### **Prevention**

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

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.

# 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.

P308 + P313 If exposed or concerned: Get medical attention/advice

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.

P405 Store locked up

#### Disposa

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

## Other Hazards

None known.

# 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

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INGREDIENT NAME	CAS#	CONCENTRATION (%)
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	60
Carbon black	1333-86-4	10-30
Cresyl glycidyl ether	2210-79-9	18

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 human health or the environment, or it may be present at a level below its disclosure threshold. Refer to Section 15 for 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
	<b>EXTINGUISHING MEDIA:</b>
	FIRE AND EXPLOSION HAZARDS:
	SPECIAL FIRE FIGHTING PROCEDURES:
6.	ACCIDENTAL RELEASE MEASURES
	<b>EMERGENCY PROCEDURES:</b>
	MITIGATION AND CLEAN UP PROCEDURES:
	<b>ENVIRONMENTAL PRECAUTIONS:</b>
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:

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This product contains Carbon Black, which is listed by IARC as a Group 2B – possibly carcinogenic to humans by IARC. No significant inhalation exposure is expected to occur during use of products in which Carbon Black is present in a liquid dispersion or when bound to other materials, such as in cured epoxies. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations of solidified product. When sanding or machining solidified product and creating an airborne dust that may contain Carbon Black, consider the use of appropriate respiratory protection, such as a N95 particulate filter or greater.

**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.
Carbon Black	1333-86-4	ACGIH TLV 3 mg/m3 TWA, Inhalable; OSHA PEL
		3.5 mg/m <sup>3</sup> , TWA
Cresyl glycidyl ether	2210-79-9	No data available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	. Semi-liquid, paste.
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) 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)	
VAPOR PRESSURE	. No data available
SPECIFIC GRAVITY/DENSITY (water = 1)	. 1.2
BULK DENSITY	. 10.0 lbs./gal. (1.20 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.)	. No data available
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	. No data available
KINEMATIC VISCOSITY:	. No data (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	
% VOLATILE BY WEIGHT:	ASTM D 2369-07 was used to determine the Volatile Content of mixed
epoxy resin and hardener.	

No data available.

# 10. STABILITY AND REACTIVITY

**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 <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation

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others.

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)	
Carbon black	1333-86-4	> 8000 mg/kg	No data	No data
Cresyl glycidyl ether	2210-79-9	4000-5800 mg/kg	No data	6090 mg/m3 4h (rat);
		(rat)		1220 ppm 4h (rat)

ACUTE TOXICITY:	
based on acute toxicity estimation methods using ingred Oral:	dient data
SKIN CORROSION / IRRITATION:	
SERIOUS EYE DAMAGE / IRRITATION:	
SKIN SENSITIZATION:	
Diglycidyl ether bisphenol-A, in animal studies, has bee	
MUTAGENICITY:	
mutagen in strains TA 1535 and TA 100, but was not m produced significant increases in unscheduled DNA syr	vitro tests. Literature Ames Tests showed that o-cresyl glycidyl ether was a direct-acting utagenic in TA 98. In an unscheduled DNA synthesis assay, o-cresyl glycidyl ether thesis at 10 and 100 ppm. At 1000 ppm, o-cresyl glycidyl ether produced a marked toxic effects. In a host-mediated micronucleus test in mice, o-cresyl glycidyl ether was
Dialycidyl ether hisphenol-A in animal mutagenicity stur	dies were negative. In vitro mutagenicity tests were negative in some cases and positive in

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

Epichlorohydrin, an impurity in this product (<5 ppm) has been reported to produce cancer in laboratory animals and to produce mutagenic changes in bacteria and cultured human cells. It has been established by the International Agency for Research on Cancer (IARC) as a probable human carcinogen (Group 2A) based on the following conclusions: human evidence – inadequate; animal evidence – sufficient. It has been classified as an anticipated human carcinogen by the National Toxicology Program (NTP). Note: It is unlikely that normal use of this product would result in measurable exposure concentrations to this substance.

This product contains Carbon Black, which is listed by IARC as a Group 2B – possibly carcinogenic to humans by IARC. No significant inhalation exposure is expected to occur during use of products in which Carbon Black is present in a liquid dispersion or bound to other materials, such as in epoxies. Risk of overexposure depends on actual concentration in the formula and duration and level of exposure to dust from sanding or similar machining operations. Refer to Section 8 respiratory protection information and Section 11 for toxicology information.

Study: Species: Rat, Route: Inhalation, Duration: 2 years, Target Organ: Lungs, Effect: Inflammation, fibrosis, tumors. Note: Tumors in the rat lung are considered to be related to "lung overload" rather than to a specific chemical effect of the carbon black itself in the lung. These effects in rats have been reported in many studies in other poorly soluble inorganic particles and appear to be rat specific (ILSI, 2000). Tumors have not been observed in other species (Ex. mouse, hamster) for carbon black or other poorly soluble particles under similar circumstances and study conditions.

In 2006, IARC re-affirmed its 1995 finding that there is "inadequate evidence" from human health studies to assess whether carbon black causes cancer in humans. IARC concluded that there is "sufficient evidence" in animal studies for the carcinogenicity of carbon black. IARC's overall assessment is that carbon black is "possibly carcinogenic to humans (Group 2B)". This conclusion was based on IARC's guideline's, which generally require such a classification if one species exhibits carcinogenicity in two or more animal studies (IARC, 2010).

ACHIG classifies Carbon Black as a confirmed animal carcinogen with unknown relevance to humans (Category A3).

concluded that Diglycidyl ether bisphenol-A is not classified as a carcinogen.

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# 12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY:Estimate: Does not meet acute aquatic toxicity requirements.	No specific test data available for the mixture. Calculated
CHRONIC AQUATIC TOXICITY:	No specific test data available for the mixture. Calculated
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 long lasting effects. Prevent release to the environment.	

Ingredient	CAS#	Ecotoxicity Classification Information
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers	25085-99-8	Aquatic Chronic Cat. 2
Carbon black	1333-86-4	Not classified.
Cresyl glycidyl ether	2210-79-9	Aquatic Chronic Cat. 2

### 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: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	Not applicable Not applicable Not applicable.
CANADA TDG UN NUMBER: SHIPPING NAME: TECHNICAL SHIPPING NAME: HAZARD CLASS: PACKING GROUP:	Not applicable Not applicable Not applicable.
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

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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	No data
South Korea	KECI	No data
China	IECSC	No data
Philippines	PICCS	No data
New Zealand	NZIoC	No data

US EPA TSCA Requirements: 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 Carbon black

1333-86-4

STATE CODE

1, 2CA, NJ, MA, PA

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

# 16. OTHER INFORMATION

REASON FOR ISSUE:	Updates to sections 3, 8, 11 & 15.
PREPARED BY:	
SDS CONTACT:	
TITLE:	
APPROVAL DATE:	
SUPERSEDES DATE:	November 21, 2016.
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

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<sup>&</sup>lt;sup>2</sup> Carbon black, (airborne, unbound particles of respirable size) is a substance listed under California Proposition 65. As present in this product, carbon black does not meet that listing criteria, as it is both bound in a liquid dispersion and therefore not respirable.