# SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PRO-SET® SBE-262 Hardener

APPLICABLE PRODUCT CODES: ......SBE-262, SBE-262-1, SBE-262-2, SBE-262-4, SBE-262-G

CHEMICAL FAMILY: Polyamine mixture.

PRODUCT RESTRICTIONS: None identified. SDS VERSION: SBE-262-2019a

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

### 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. Continue rinsing.

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.

Disposa

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

### Other Hazards

None known.

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**HANDLING AND STORAGE** 

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS#	CONCENTRATION (%)
Trimethylhexane-1,6-diamine	25620-58-0	10-30
Benzyl alcohol	100-51-6	10-30
1,3-cyclohexanedimethanamine	2579-20-6	10-30
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chromethyl) oxirane and		
1,3-cyclohexanedimethanamine	60112-98-3	10- 30
Polymer of epichlorohydrin, bisphenol A, and trimethylhexane-1,6-diamine	111850-23-8	3-7
3,3'-(Oxybis(2,1-ethane-diyloxy))bis-1-propanamine	4246-51-9	1-5
Decanedioic acid, 1, 10-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) ester	41556-26-7	0.1-1.5

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.

### FIRST AID MEASURES immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Immediately call a POISON CONTROL CENTER or doctor. skin reaction and sensitization. RESPONSE: Immediately wash skin with soap and water. Immediately call a POISON CONTROL CENTER or RESPONSE: Remove to fresh air if effects occur and keep comfortable for breathing. Immediately call POISON CONTROL CENTER or doctor. cause burns of the mouth and throat. RESPONSE: Rinse mouth with water. DO NOT induce vomiting. If vomiting should occur, keep airway clear. Immediately call POISON CONTROL CENTER or doctor. Notes to physician: Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do 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 Direct water stream. combustion products of varying composition which may be toxic and/or irritating. Combustion products may include, but are not limited to: oxides of nitrogen, carbon monoxide, carbon dioxide, volatile amines, ammonia, nitric acid, aldehydes, nitrosamines, phenolics. When mixed with sawdust, wood chips, or other cellulosic material, spontaneous combustion can occur under certain conditions. Heat is generated as the air oxidizes the amine. If the heat is not dissipated quickly enough, it can ignite the sawdust. Use of water may generate toxic aqueous solutions. Do not allow water run-off from fighting fire to enter drains or other water courses. **ACCIDENTAL RELEASE MEASURES** 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. Do not use sawdust, wood chips or other cellulosic materials to absorb the spill, as the possibility for spontaneous combustion exists. Warm, soapy water 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.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

below established limits, use a NIOSH approved respirator with organic vapor, organic vapor + P100, or multi-contaminant cartridge, 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:**Use where there is immediate access to safety shower and emergency eye wash. Wash thoroughly after use. Contact lens should not be worn when working with this material. 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
Trimethylhexane-1,6-diamine	25620-58-0	No data available
Benzyl alcohol	100-51-6	10 ppm (AIHA-WEEL)
1,3-cyclohexanedimethanamine	2579-20-6	No data available
Phenol, 4,4'-(1-methylethylidene) bis-, polymer with 2-(chromethyl) oxirane and 1,3-	60112-98-3	
cyclohexanedimethanamine	00112000	No data available
Polymer of epichlorohydrin, bisphenol A, and trimethylhexane-1,6-diamine	111850-23-8	No data available
Decanedioic acid, 1, 10-bis(1,2,2,6,6-		
pentamethyl-4-piperidinyl) ester	41556-26-7	1mg/m <sup>3</sup> CELING

### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM:	Liquid.
COLOR:	
ODOR:	Ammonia-like
ODOR THRESHOLD:	No data available
pH	12.28
MELTING POINT / FREEZING POINT	
BOILING POINT (760mm/Hg):	> 400°F (204°C)
FLASH POINT:	Estimated > $200^{\circ}$ F (93°C) estimated based similar product.
AUTO IGNITION TEMPERATURE	No data.
LOWER EXPLOSIVE LIMIT (LEL)	No data.
UPPER EXPLOSIVE LIMIT (UEL)	
VAPOR PRESSURE	No data.
SPECIFIC GRAVITY/DENSITY (water = 1)	0.99
BULK DENSITY	
VAPOR DENSITY (air = 1)	
EVAPORATIOIN RATE (Butyl Acetate = 1)	No data.
WATER SOLUBILITY (% BY WT.)	No data.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow)	
KINEMATIC VISCOSITY:	108 (mm²/s @ 20°C)
DECOMPOSITION TEMPERATURE:	
% 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	and hardener system is listed below.

	VOC Coi	ntent
Resin/Hardener	<u>(q/L)</u>	(lbs/gal)
SBE-160 / SBE-262	10.38	0.09
SBE-163 / SBE-262	10.38	0.09
SBF-166 / SBF-262	11.03	0.09

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### 10. STABILITY AND REACTIVITY

### 11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD <sub>50</sub> Oral LD <sub>50</sub> Dermal LC		LC <sub>50</sub> Inhalation
Trimethylhexane-1,6-diamine	25620-58-0	910 mg/kg	No data	No data
Benzyl alcohol	100-51-6	1620 mg/kg	No data	>4.18 mg/l
				4 h aerosol
1,3-cyclohexanedimethanamine	2579-20-6	700-780 mg/kg	1700 mg/kg	No data
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.		
Polymer of epichlorohydrin, bisphenol A,				
and trimethylhexane-1,6-diamine	111850-23-8	No data	No data	No data
Decanedioic acid, 1, 10-bis(1,2,2,6,6-				
pentamethyl-4-piperidinyl) ester	41556-26-7	No data	No data	No data

based on acute toxicity estimation methods using ingredier	No specific toxicity data exists for this mixture. Classification is
	Category 4 - Harmful if swallowed. May result in gastrointestinal
tract irritation, pain and possible burns.	, ,
	Not classified. Based on available data does not meet
classification criteria.	
classification criteria.	
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:classification criteria.	Not classified. Based on available data does not meet
SKIN SENSITZIATION:	
REPRODUCTIVE TOXICITY:	
MUTAGENICITY:	
CARCINOGENICITY:	Not classified. Based on available data does not meet classification criteria
SPECIFIC TARGET ORGAN TOXICITY (Single Exposure	e): Not classified. Based on available data does not meet classification criteria
SPECIFIC TARGET ORGAN TOXICITY (Repeated Expos	sure): Not classified. Based on available data does not meet classification criteria
ASPIRATION HAZARD:	

### 12. ECOLOGICAL INFORMATION

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MOBILITY IN SOIL: No specific test data available for the mixture.

**ADDITIONAL ECOTOXICITY INFORMATION:.....** In the liquid, uncured state, this product may be harmful to aquatic life with long lasting effects. Prevent release to the environment, sewers and natural waters.

Ingredient	CAS#	Ecotoxicity Classification Information
Trimethylhexane-1,6-diamine	25620-58-0	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Benzyl alcohol	100-51-6	Not classified
1,3-cyclohexanedimethanamine	2579-20-6	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
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.
Polymer of epichlorohydrin, bisphenol A, and		
trimethylhexane-1,6-diamine	111850-23-8	Acute Aquatic Cat. 3; Chronic Aquatic Cat. 3
Decanedioic acid, 1, 10-bis(1,2,2,6,6-		
pentamethyl-4-piperidinyl) ester	41556-26-7	Acute Aquatic Cat. 1; Chronic Aquatic Cat. 1

### 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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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
MARINE POLLUTANT: No

**CANADA TDG** 

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
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

ICAO/IATA

UN 2735
SHIPPING NAME: Polyamines, liquid, corrosive, n.o.s.
TECHNICAL SHIPPING NAME: 1,3-cyclohexanedimethanamine
HAZARD CLASS: Class 8
PACKING GROUP: PG III
MARINE POLLUTANT: No

### 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

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## PRO-SET® SBE-262 Hardener

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 302 (TPQ)	No data available.
Subject to Section 304 (RQ)	No data available.
Subject to Section 311 or 312	Refer to the health and physical classifications in section 2
Subject to Section 313	No data available.

### **US STATE REGULATORY INFORMATION:**

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 100-51-6 1,3-cyclohexanedimethanamine 2579-20-6

### STATE CODE

MA, PA, NJ

PA, NJ

### 16. OTHER INFORMATION

REASON FOR ISSUE:	
PREPARED BY:	
SDS CONTACT:	
	Health, Safety & Environmental Manager
APPROVAL DATE:	January 15, 2019
SUPERSEDES DATE:	
SDS VERSION:	

#### 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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