

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:..... PRO-SET® SBE-460 Accelerator
APPLICABLE PRODUCT CODES: SBE-460, SBE-460-P, SBE-460-PT, SBE-460-G, SBE-460-GAL
CHEMICAL FAMILY:..... Hydrochloric acid, dilute aqueous solution (10-15%)
INTENDED PRODUCT USES:..... Epoxy system cure accelerator.
PRODUCT RESTRICTIONS: None identified.
SDS VERSION: SBE-460 -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
Acute toxicity (dermal) Category 4
Skin Corrosion/Irritation, Category 1A
Eye Damage/Irritation, Category 1
Specific target organ toxicity (single exposure), Category 3

Label Elements

Hazard Pictogram(s):



Signal Word:
DANGER

Hazard Statements:

H302 + H312 Harmful if swallowed or in contact with skin
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation

Precautionary Statements:

Prevention

P260 Do not breathe dusts/fumes/gas/mist/vapors/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well ventilated area.
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 skin with water (or shower).
P363 Wash contaminated clothing before reuse.
P312 Call a POISON CENTER or doctor if you feel unwell.
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 a POISON CENTER or doctor.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents and container according to local, state, national and international standards.

Other Hazards

None known.

3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

INGREDIENT NAME	CAS #	CONCENTRATION (%)
Water	7732-18-5	80-100
Hydrochloric acid	7647-01-0	10-30

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:..... SYMPTOMS: Causes severe burns and eye damage. RESPONSE: Flush immediately with water for at least 15 minutes. Remove contact lenses if present and easy to do. Immediately seek medical advice.

FIRST AID FOR SKIN:..... SYMPTOMS: Causes severe skin burns. RESPONSE: Remove contaminated clothing. Immediately rinse skin with water. Seek medical advice if symptoms develop and persist.

FIRST AID FOR INHALATION:..... SYMPTOMS: May cause respiratory irritation. RESPONSE: Remove to fresh air if respiratory irritation occurs and keep comfortable for breathing. Seek medical advice if effects occur and persist.

FIRST AID FOR INGESTION:..... SYMPTOMS: May cause gastrointestinal irritation. RESPONSE: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA:..... SUITABLE: Use extinguishing media suitable for the surrounding materials. Water spray, dry chemical, alcohol-resistant foam, carbon dioxide (CO₂). NON-SUITABLE: None known.

FIRE AND EXPLOSION HAZARDS:..... During a fire, smoke may contain the original materials in addition to combustion products of varying composition which may be toxic and/or irritating. May release hydrogen chloride gas upon thermal decomposition.

SPECIAL FIRE FIGHTING PROCEDURES:..... Use full-body protective gear and a self-contained breathing apparatus. Avoid run-off from fighting fire to enter drains or other water courses.

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. If necessary, neutralize spill residue with a dilute solution. Ex. sodium carbonate. Water may be used to clean residual.

ENVIRONMENTAL PRECAUTIONS:..... Prevent from entering into soil, ditches, sewers, waterways and groundwater. If release is large, reporting to the appropriate agencies may be required. See Section 12 for environmental impact information.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (min./max.):..... 40°F (4°C) / 77°F (25°C).

STORAGE:..... Store in cool, dry place away from high temperatures and sunlight to prevent deterioration. Keep container tightly closed. Store locked up in a secure location. Store in a designated acid cabinet away from incompatible materials. Store in acid-resistant plastic, glass or lined stainless steel container. Do not store in aluminum container or use aluminum handling or transfer equipment.

HANDLING PRECAUTIONS:..... Use only with adequate ventilation. Do not breathe vapors or mists. Do not get in eyes, or on skin or clothing. Wash hands and face thoroughly after handling. Use appropriate personal protective equipment.

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:..... Chemical splash-proof goggles or face shield.

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:..... When ventilation cannot be made adequate enough to keep exposures below established limits, use a NIOSH approved respirator with an acid gas cartridge, depending on specific workplace conditions. Consult with

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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 to 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 available exposure limit information, refer to the table below.

Ingredient Name	CAS#	Exposure Limit Information
Water	7732-18-5	No data available
Hydrochloric acid	7647-01-0	2 ppm C ACGIH; 5 ppm C NIOSH; 7 mg/m3 C NIOSH; 5 ppm C OSHA Table Z-1; 7 mg/m3 C OSHA Table Z-1. The value in mg/m3 is approximate. Ceiling limit "C" is to be determined by breathing zone air samples.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid.
COLOR: Colorless
ODOR: Strong, irritating
ODOR THRESHOLD: No data available
pH: 1.08
MELTING POINT / FREEZING POINT No data.
BOILING POINT (760mm/Hg): > 200°F (93°C)
FLASH POINT: No data available.
AUTO IGNITION TEMPERATURE No data.
LOWER EXPLOSIVE LIMIT (LEL) No data.
UPPER EXPLOSIVE LIMIT (UEL) No data.
VAPOR PRESSURE 253 hPa (190 mmHg) @ 25°C (77°F)
SPECIFIC GRAVITY/DENSITY (water = 1) 1.0
BULK DENSITY 8.3 lbs./gal. (1.00 kg/L)
VAPOR DENSITY (air = 1) No data.
EVAPORATION RATE (Butyl Acetate = 1) No data.
WATER SOLUBILITY (% BY WT.) 100%.
PARTITION COEFFICIENT, n-OCTANOL/WATER (log Pow) No data.
KINEMATIC VISCOSITY: No data (mm²/s @ 40°C)
DECOMPOSITION TEMPERATURE: No data available.
% VOLATILE BY WEIGHT: This accelerator product, dilute aqueous hydrochloric acid solution, is 100% volatile. ASTM 2369-07 was used to determine the Volatile Matter Content of mixed epoxy resin, hardener and accelerator. The combined VOC content for the resin, hardener and accelerator system is listed below.

Component	VOC Content	
	(g/L)	(lbs/gal)
SBE-160 / SBE-262 / SBE-460	27.13	0.23
SBE-160 / SBE-265 / SBE-460	28.16	0.24

10. STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.
REACTIVITY: Product will not react by itself.
INCOMPATIBILITIES: Avoid excessive heat. Strong oxidizing agents, caustics, alkalis, cyanides, and common and active metals. Reaction with some metals can product flammable hydrogen gas.
CONDITIONS TO AVOID: Avoid excessive heat.
DECOMPOSITION PRODUCTS: Chlorine. Hydrogen gas. Can release hydrogen chloride gas upon reaction with metals or upon thermal decomposition.

11. TOXICOLOGICAL INFORMATION

Ingredient Name	CAS#	LD ₅₀ Oral	LD ₅₀ Dermal	LC ₅₀ Inhalation
Water	7732-18-5	No data	No data	No data
Hydrochloric acid	7647-01-0	900 mg/kg	1449 mg/kg	1108 ppm 1h (mouse); 3124 mg/l

				1h (rat)
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ACUTE TOXICITY: No specific toxicity data exists for this mixture. Classification is based on acute toxicity estimation methods using ingredient data.

Oral: Not classified. Does not meet acute oral toxicity classification criteria. May result in gastrointestinal tract irritation if ingested.

Dermal: Not classified. Does not meet acute dermal toxicity classification criteria.

Inhalation: Not classified. Does not meet acute inhalation toxicity classification criteria.

SKIN CORROSION / IRRITATION: Causes severe skin burns and eye damage. Category 1A.

SERIOUS EYE DAMAGE / IRRITATION: Causes severe eye damage. Category 1.

RESPIRATORY SENSITIZATION: No data available.

SKIN SENSITIZATION: No data available.

REPRODUCTIVE TOXICITY: No data available.

MUTAGENICITY: No data available.

CARCINOGENICITY: No data available.

SPECIFIC TARGET ORGAN TOXICITY (Single Exposure): May cause respiratory irritation. Category 3.

SPECIFIC TARGET ORGAN TOXICITY (Repeated Exposure): Not classified. Does not meet classification criteria.

ASPIRATION HAZARD: No data available.

OTHER HEALTH HAZARD INFORMATION: None known.

12. ECOLOGICAL INFORMATION

ACUTE AQUATIC TOXICITY: No specific test data available for the mixture. Calculation estimate based on ingredient data indicates this product does not meet acute aquatic toxicity criteria.

CHRONIC AQUATIC TOXICITY: No specific test data available for the mixture. Calculation estimate based on ingredient data indicates this product does not meet acute aquatic toxicity criteria.

PERSISTENCE AND BIODEGRADABILITY: No specific test data available for the mixture. Hydrochloric acid is not expected to be biodegradable.

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

ADDITIONAL ECOTOXICITY INFORMATION: No specific test data available for the mixture.

Ingredient	CAS#	Ecotoxicity Classification Information
Water	7732-18-5	Does not meet classification criteria.
Hydrochloric acid	7647-01-0	Does not meet classification criteria.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Evaluation of this product using RCRA characteristics criteria indicates that it may be a hazardous waste in its purchased form (D002). It is the responsibility of the user to determine proper disposal methods.

Incinerate, recycle, neutralize or reclaim may be preferred methods when conducted in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

US DOT

SHIPPING NAME: Hydrochloric acid

TECHNICAL SHIPPING NAME: NA

HAZARD CLASS: Class 8

U.N./N.A. NUMBER: UN 1789

PACKING GROUP: PG II

CANADA TDG

SHIPPING NAME: Hydrochloric acid

TECHNICAL SHIPPING NAME: NA

HAZARD CLASS: Class 8

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U.N./N.A. NUMBER:..... UN 1789
 PACKING GROUP:..... PG II

IMDG

SHIPPING NAME:..... Hydrochloric acid
 TECHNICAL SHIPPING NAME:..... NA
 HAZARD CLASS:..... Class 8
 U.N. NUMBER:..... UN 1789
 PACKING GROUP:..... PG II
 EmS Number:..... F-A, S-B
 MARINE POLLUTANT..... No

ICAO/IATA

SHIPPING NAME:..... Hydrochloric acid
 TECHNICAL SHIPPING NAME:..... NA
 HAZARD CLASS:..... Class 8
 U.N. NUMBER:..... UN 1789
 PACKING GROUP:..... PG II
 MARINE POLLUTANT:..... No

15. REGULATORY INFORMATION

COUNTRY	INVENTORY LIST	STATUS
United States	TSCA	All ingredients are listed or otherwise compliant. May be subject to Section 4 test rule.
Europe	EINECS or ELINCS	All ingredients are listed or otherwise compliant (231-5957).
Canada	CEPA (DSL/NDL)	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	No data.
Philippines	PICCS	All ingredients are listed or otherwise compliant.

US EPA TSCA 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.
 Subject to Section 304 (RQ)..... Yes (5000 lbs.)
 Subject to Section 311 or 312..... Refer to the health and physical classifications in section 2.
 Subject to Section 313..... Yes.
 Hydrochloric acid (anhydrous) and hydrochloric acid solutions (37% concentration and greater) may be subject to additional US DHS, OSHA and EPA regulations.

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

STATE CODE

Hydrochloric acid
 7647-01-0

NJ, PA, MA RI

16. OTHER INFORMATION

REASON FOR ISSUE:..... Update to Sections 3, 8, 11 & 15.
PREPARED BY:..... Gougeon Brothers, Inc.
SDS CONTACT:..... safety@gougeon.com
TITLE:..... Health, Safety & Environmental Manager
APPROVAL DATE:..... January 15, 2019
SUPERSEDES DATE:..... August 23, 2016
SDS VERSION:..... SBE-460-2019a

OTHER HAZARD INFORMATION AND RATING SYSTEMS:

HMIS® RATING

NFPA® 704 CODES

PRO-SET® SBE-460 Accelerator

HEALTH:	3
FLAMMABILITY:	0
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	



Approximate HMIS and NFPA Risk Ratings Legend:
0 = Low or None; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe

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