SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	255201	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	BUSTER	**EMERGENCY TELEPHONE:**	1-800-535-5053
PRODUCT DESCRIPTION:	Concentrated Sulfuric Acid Drain Opener	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Classification according to Regulation (EC) No 1272/2008:
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
Skin Corr. 1A H314 Causes severe skin burns and eye damage.
Labelling according to Regulation (EC) No 1272/2008:
The product is additionally classified and labelled according to the Globally Harmonized System within the United States (GHS).
The substance is classified and labelled according to the CLP regulation.
Hazard-determining components of labelling:
sulphuric acid

SIGNAL WORD:
DANGER

SYMBOL:

HAZARD STATEMENTS:
H314 - Causes severe skin burns and eye damage.

PRECAUTIONARY STATEMENTS:
Prevention: P260 - Do not breathe mist/vapours/spray.
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response: P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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/doctor.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P363 - Wash contaminated clothing before reuse.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Storage: P405 - Store locked up.
Disposal: P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

OTHER HAZARDS:
There are no other hazards not otherwise classified that have been identified.

RESULTS OF PBT AND VPVB ASSESSMENT
PBT: Not applicable.
vPvB: Not applicable.

3. Composition / Information on Ingredients

SUBSTANCES:
CAS No. Description: 7664-93-9 sulphuric acid
Identification Number(s):
EC Number: 231-639-5
Index Number: 016-020-00-8

4. First Aid Measures

EMERGENCY OVERVIEW
EYES: Protect unharmed eye. Rinse opened eye for several minutes under running water. Seek medical treatment.
SKIN: Immediately remove any clothing soiled by the product. Immediately rinse with water. Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.
INHALATION:
Supply fresh air or oxygen; call for doctor. Provide oxygen treatment if affected person has difficulty breathing.
INGESTION:
Rinse out mouth and then drink plenty of water. Do not induce vomiting; call for medical help immediately.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:
Gastric or intestinal disorders.
Hazards: Causes severe skin burns and eye damage. Danger of gastric perforation. Danger of circulatory collapse. Danger of impaired breathing.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Monitor circulation, possible shock treatment. Medical supervision for at least 48 hours.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

CO_2, sand, extinguishing powder. Do not use water.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

For safety reasons unsuitable extinguishing agents: Water

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Formation of toxic gases is possible during heating or in case of fire.
Sulphur dioxide (SO2)
Under certain fire conditions, traces of other toxic gases cannot be excluded.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Wear self-contained respiratory protective device.
Wear fully protective suit.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Use respiratory protective device against the effects of fumes/dust/aerosol. Remove persons from danger area. Ensure adequate ventilation. Wear protective equipment. Keep unprotected persons away.

ENVIRONMENTAL PRECAUTIONS:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

Use limestone to neutralize and absorb spill. Send for recovery or disposal in suitable receptacles.

REFERENCE TO OTHER SECTIONS:

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. Handling and Storage

SAFE HANDLING:

Open and handle receptacle with care. Avoid splashes or spray in enclosed areas. Use only in well ventilated areas. Use personal protective equipment as required. Prevent formation of aerosols. When diluting always pour product into water and not vice versa. Avoid breathing mist/vapours/spray. Avoid contact with the eyes and skin. Keep out of reach of children.

Information about fire - and explosion protection: Keep respiratory protective device available.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements to be met by storerooms and receptacles:

Store in a cool location. Protect from humidity and water. Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: Steel.

Unsuitable material for receptacle: Aluminum.

Information about storage in one common storage facility:

Store away from flammable substances. Do not store together with alkalis (caustic solutions). Store away from oxidizing agents. Store away from water. Store away from metals.

FURTHER INFORMATION ABOUT STORAGE CONDITIONS:

Store in cool, dry conditions in well-sealed receptacles.
Store receptacle in a well-ventilated area.
Store under lock and key and out of the reach of children.

SPECIFIC END USE(S):

No further relevant information available.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS

Ingredients with limit values that require monitoring at the workplace:	
7664-93-9 sulphuric acid	
IOELV (EU)	Long-term value: 0,05 mg/m³
PEL (USA)	Long-term value: 1 mg/m³
REL (USA)	Long-term value: 1 mg/m³
TLV (USA)	Long-term value: 0,2* mg/m³ *as thoracic fraction
EL (Canada)	Long-term value: 0,2 mg/m³ ACGIH A2; IARC 1
EV (Canada)	Long-term value: 0,2 mg/m³

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Safety glasses: Goggles recommended during refilling

Skin Protection:

Protection of Hands: Protective gloves - The glove material has to be impermeable and resistant to the product/the substance/the preparation.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Laminated film gloves.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Neoprene gloves
PVC gloves

Not suitable are gloves made of the following materials:

PVA gloves
Natural rubber, NR
Leather gloves

Body Protection: Acid resistant protective clothing

Respiratory Protection: Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed.

General Hygiene Considerations: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Clean skin thoroughly immediately after handling the product. Use only in well ventilated areas. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols.

9. Physical & Chemical Properties

Form:	Liquid	**Flammability(solid/gas):**	Not applicable.
Color:	Red	**Explosive Limit-Lower (%):**	Not determined.
Odor:	Acidic	**Explosive Limit-Upper (%):**	Not determined.
Odor Threshold:	Not determined.	**Vapor Density:**	Not determined.
pH:	< 1,0	**Relative Density:**	1,83
Melting point/Melting Range:	Not determined.	**Solubility (water):**	Fully miscible.
Boiling Point/Range:	304°C (579°F)	**Auto-Ignition Temp:**	Not determined.
Viscosity-Dynamic:	Not determined.	**Decomposition Temp:**	Not determined.
Viscosity-Kinematic:	Not determined.	**Partition Coeff(n-octanol/water):**	Not determined.
Flash Point:	Not applicable.	**Danger of Explosion:**	Product does not present an explosion hazard.
Evaporation Rate:	Not determined.	**Other Information:**	No further relevant information available.

10. Stability & Reactivity Information

REACTIVITY:

No further relevant information available.

CHEMICAL STABILITY:

Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.

POSSIBILITY OF HAZARDOUS REACTIONS:

When diluting, always add acid to water, never vice versa.
May produce violent reactions with bases and numerous organic substances including alcohols and amines.
Strongly reducing.
Diluting or dissolving in water always causes rapid heating.
Reacts with base metals forming hydrogen.
Reacts with fats and oils.

CONDITIONS TO AVOID:

Store away from oxidizing agents.

INCOMPATIBLE MATERIALS:

Alkalis

HAZARDOUS DECOMPOSITION PRODUCTS:

Corrosive gases/vapours
Sulphur trioxide (SO_3) or SO_3-mist
Sulphur oxides (SOx)

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Ingestion.
Inhalation.
Eye contact.
Skin contact.

ACUTE TOXICITY:

Based on available data, the classification criteria are not met.

PRIMARY IRRITANT EFFECT:

LD/LC50 VALUES RELEVANT FOR CLASSIFICATION:

None.

SKIN CORROSION/IRRITATION:

Causes severe skin burns and eye damage.

SERIOUS EYE DAMAGE/IRRITATION:

Causes severe skin burns and eye damage.

RESPIRATORY OR SKIN SENSITIZATION:

Based on available data, the classification criteria are not met.

CARCINOGENIC CATEGORIES:

IARC (International Agency for Research on Cancer):		
7664-93-9	sulphuric acid	1

NTP (National Toxicology Program):		
7664-93-9	sulphuric acid	K

OSHA-Ca (Occupational Safety & Health Administration):
Substance is not listed.

ACUTE EFFECTS (ACUTE TOXICITY, IRRITATION AND CORROSIVITY):
Causes severe skin burns and eye damage.
GERM CELL MUTAGENICITY:
Based on available data, the classification criteria are not met.
CARCINOGENICITY:
Based on available data, the classification criteria are not met.
REPRODUCTIVE TOXICITY:
Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY -single exposure:
Based on available data, the classification criteria are not met.
SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:
Based on available data, the classification criteria are not met.
ASPIRATION HAZARD:
Based on available data, the classification criteria are not met.

12. Ecological Information

TOXICITY
Aquatic Toxicity: No further relevant information available.
PERSISTENCE AND DEGRADABILITY:
Inorganic product, is not eliminable from water by means of biological cleaning processes.
BIOACCUMULATIVE POTENTIAL:
Does not accumulate in organisms.
MOBILITY IN SOIL:
No further relevant information available.
ECOTOXICAL EFFECTS:
Remark: After neutralization toxicity cannot be recognized any longer.
Additional Ecological Information:
General Notes: At present there are no ecotoxicological assessments.
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.
If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
RESULTS OF PBT AND VPVB ASSESSMENT:
PBT: Not applicable.
vPvB: Not applicable.
OTHER ADVERSE EFFECTS:
No further relevant information available.

13. Disposal Consideration

WASTE TREATMENT METHODS
Recommendation:
Dilute concentrate with water and neutralize afterwards with suitable alkali material (sodium hydroxide solution, lime). The formed neutral salts are relatively environment-friendly. Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
UNCLEANED PACKAGING:
Recommendation:
Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Disposal must be made according to official regulations.
Recommended Cleansing Agents: Water only.

14. Transportation Information

DOT: **UN Number:** UN1830
UN Proper Shipping Name: Sulfuric acid
Transport Hazard Class(es):
Class: 8 Corrosive substances.
Label(s): 8
Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.
Packing Group: II

IATA: **UN Number:** UN1830
UN Proper Shipping Name: Sulphuric acid
Transport Hazard Class(es):
Class: 8 Corrosive substances.
Label(s): 8
Packing Group: II
Limited Quantity for packages less than 30 kg and inner packagings less than 0.5 L.

IMDG: **UN Number:** UN1830
UN Proper Shipping Name: SULPHURIC ACID
Transport Hazard Class(es):
Class: 8 Corrosive substances.
Label(s): 8
Packing Group: II
Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

ADR: **UN Number:** UN1830
UN Proper Shipping Name: SULPHURIC ACID

Transport Hazard Class(es):
Class: 8 (C1) Corrosive substances.
Label(s): 8
Packing Group: II
Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

ENVIRONMENTAL HAZARDS:
· **Marine Pollutant:** No

SPECIAL PRECAUTIONS FOR USE:
Warning: Corrosive substances.
Danger code (Kemler): 80
EMS Number: F-A,S-B
Segregation Groups: Acids

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

15. Regulatory Information

US FEDERAL REGULATIONS:
SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE
UNITED STATES (USA)
SARA
Section 355 (extremely hazardous substances): Substance is listed.
Section 313 (Specific toxic chemical listings): Substance is listed.
TSCA (Toxic Substances Control Act): Substance is listed.

PROPOSITION 65 (CALIFORNIA):
Chemicals known to cause cancer: Substance is not listed.
Chemicals known to cause reproductive toxicity for females: Substance is not listed.
Chemicals known to cause reproductive toxicity for males: Substance is not listed.
Chemicals known to cause developmental toxicity: Substance is not listed.

CARCINOGENIC CATEGORIES:
EPA (Environmental Protection Agency): Substance is not listed.
IARC (International Agency for Research on Cancer): Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health): Substance is not listed.
Canadian Domestic Substances List (DSL): Substance is listed.

OTHER REGULATIONS, LIMITATIONS AND PROHIBITIVE REGULATIONS:
Substances of very high concern (SVHC) according to REACH, Article 57: Substance is not listed.

CHEMICAL SAFETY ASSESSMENT:
A Chemical Safety Assessment has not been carried out.

16. Other Information

ABBREVIATIONS AND ACRONYMS:
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
LDLo: Lowest Lethal Dose Observed
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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