

SAFETY DATA SHEET

SULFURIC ACID

SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

BioShop Canada Inc.
5480 Mainway
Burlington, Ontario L7L 6A4
1-800-234-1179
Emergency Telephone No.: 1-905-466-3832
Chemical Name: Sulfuric acid
Catalog Number: SUL001

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification:

Skin corrosion (Category 1A)
Serious eye damage (Category 1)
Corrosive to metals (Category 1)

Pictogram:



Signal word: Danger

Hazard statement:

H290 may be corrosive to metals
H314 causes severe skin burns and eye damage

Precautionary statements:

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+p330+p331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off all contaminated clothing. Rinse skin with water.
P304+P340+P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
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/physician.

Potential health effects:

Eyes: Causes eye burns.
Skin: causes skin burns.
Inhalation: may cause respiratory tract burns.
Ingestion: Harmful if swallowed. Cause s burns..

CHRONIC HEALTH HAZARDS:

Corrosive. Harmful If swallowed. Causes severe eye and skin Irritation.

SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
Sulfuric acid	7664-93-0	90-100%

Molecular Formula: H₂SO₄

Molecular Weight: 98.08 g/mol .

SECTION 4 FIRST AID MEASURES

Eyes: Flush eyes with water for at least 15 minutes, occasionally lifting the upper and lower eyelids. GET MEDICAL ATTENTION

Skin: In case of contact, flush area immediately with soap and water while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a manner which limits further exposure. GET MEDICAL ATTENTION.

Inhalation: GET MEDICAL ATTENTION IMMEDIATELY. Remove from exposure to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

Ingestion: If swallowed wash mouth out with water if person is conscious. GET MEDICAL ATTENTION. > Do Not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

Flammable: No

Flash Point: N/A

Autoignition Temperature: N/A

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide.

Explosion Data: Not available

SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

Leak and Spill Procedures: Ventilate the area. Wear appropriate protective equipment. Cover with inert absorbent material. Sweep and place in a closed container. Keep containers upright to prevent further leakage. Dispose accordingly.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

Storage Conditions: Room temperature. Keep container tightly closed in a dry well-ventilated area

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

TWA 0.2mg/m³, Canada

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Use adequate ventilation. AVOID CONTACT with clothing, skin and eyes..
Wear appropriate protective equipment to prevent eye and skin exposure.
Wear appropriate respirator to prevent lung irritation.

Personal Protection: Lab coat, safety goggles, rubber gloves.

Ventilation: Local exhaust systems. Use fume hood

Respiratory protection: use OSHA/MSHA approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Clear, oily liquid

Freezing/Melting Point: 3° C

Boiling Point: 280°C

Specific Gravity: 1.841/gm3

Vapor Density: N/A

Water Solubility: soluble

pH: approx. 0.3, 1N soln.

SECTION 10 STABILITY AND REACTIVITY:

Stability: Stable under normal temperatures and pressure

Conditions to avoid: dust generation

Incompatibility: Bases, Halides, Organic materials. Nitrates, Carbides, Picrates, Cyanides, Potassium permanganate, Hydrogen peroxide. reacts violently with Phosphorus III oxides, Powdered metals.

Hazardous Decomposition Products:, sulfur oxides

Hazardous Polymerization: Will not occur

SECTION 11 TOXICOLOGICAL PROPERTIES

Exposure Limits:

LD50 Oral, rat - 2,140 mg/kg

LC50 Inhalation - Rat - 2h - 510 mg/m3

Skin corrosion/irritation:

Skin, rabbit, causes severe burns

Serious eye damage/eye irritation:

Eyes, rabbit, severe eye irritation

Epidemiology: No data available

Teratogenicity: No data available

Reproductive Effects: No data available

Neurotoxicity: No data available

Mutagenicity: No data available

Carcinogenicity: Not listed by ACGIH, IARC, NTP, or OSHA

SECTION 12 ECOLOGICAL INFORMATION

Toxicity:

Fish, LC50 , Mosquito fish-42mg/L- 95hr.

SECTION 13 DISPOSAL CONSIDERATION

Waste Disposal: Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

SECTION 14 TRANSPORT INFORMATION

TDG Canada)

UN number: 1830 Class 8 Packing group: II

Proper shipping name: SULFURIC ACID

IMDG

UN number: 1823 Class 8 Packing group: II

Proper shipping name:

Proper shipping name: SULFURIC ACID

IATA

UN number: 1823 Class 8 Packing group: II

Proper shipping name: SULFURIC ACID

SECTION 15 REGULATORY INFORMATION

US : TSCA: listed

European/International: N/A

Canada: WHMIS: **E**

SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Jan 1/2025

Phone: (800) 234-1179

The information provided on this Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product.

Observe all federal, provincial and state laws concerning health, safety and pollution.