



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Sulfuric Acid, 1.00 Normal**
PRODUCT NUMBER: 63700
SYNONYMS: Battery acid, Dihydrogen Sulfate, oil of Vitriol
MANUFACTURER:

Prochem, Inc.
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IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H314	Causes severe skin burns and eye damage
H402	Harmful to aquatic life

Precautionary Phrases

P280	Wear protective gloves/protective clothing/eye protection/face protection
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense, if present and easy to do so. Continue rinsing.
P310	Immediately call a poison center or doctor/physician

HMIS CLASSIFICATION:

Health: 3 Fire: 0 Reactivity Hazard: 2 Personal: J

NFPA RATING:

Health: 3 Flammability: 0 Reactivity Hazard: 2 Specific Hazard: W

EYE CONTACT: Causes severe eye burns

SKIN CONTACT: May be harmful if absorbed through the skin. Causes skin burns.

INHALATION: may be harmful if inhaled. Causes extreme destruction to the tissue of the mucous membranes the upper respiratory tract.

INGESTION: May be harmful if swallowed

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	Formula	Molecular Weight
Sulfuric Acid	5	7664-93-9	H ₂ SO ₄	98.08
Water	Balance	7732-18-5	H ₂ O	18.00

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately rinse with plenty of water for at least 15 minutes. Get medical attention immediately.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable.

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use appropriate media for adjacent fire. Cool containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Sulfur oxides and hydrogen sulfide gas.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Use adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Use appropriate personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid formation of dusts.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE CONTROLS

Component	Exposure Limits	Basis	Entity
Sulfuric Acid	0.2 mg/m ³	TLV	ACGIH
	1 mg/m ³	PEL	OSHA
	1 mg/m ³	REL	NIOSH
	15 mg/m ³	IDLH	OSHA

TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

IDLH: Immediately Dangerous to Life or Health

PEL: Permissible Exposure Limit

EYE PROTECTION: Wear chemical safety glasses or goggles, and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, and a full body suit.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear, colorless, liquid

ODOR: None

BOILING POINT: Not available

MELTING POINT: Not available

SPECIFIC GRAVITY: Not available

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Moisture

INCOMPATIBILITY: Bases, halides, organic material, carbides, chlorates, fulminates, nitrates, picrates, cyanides, cyclopentadine, cyclopentanone, oxime, nitroaryl amines, hexalithium disilicide, phosphorous (III) oxide, and powdered metals.

DECOMPOSITION PRODUCTS: Sulfur oxides and hydrogen sulfide gas.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 – Rat – 510 mg/m³ – 2h. LD50 – Rat – 2,140 mg/kg

CARCINOGENIC EFFECTS: According to IARC and the ACGIH states it's a human carcinogen. The NTP and OSHA say that no component is sufficiently linked to cancer enough for it to be a carcinogen.

MUTAGENIC EFFECTS: Not available

TETRAUTOGENIC EFFECTS: Not available

CHRONIC TOXICITY: May cause bleeding of nose and gums, nasal and oral mucosal ulceration, conjunctivitis, yellowing of teeth and erosion of tooth enamel.

RTECS: No data

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: LC50 – Gambusia Affinis – 42 mg/L – 96h

AQUATIC INVERTEBRATE: Not available

TERRESTRIAL: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

UN2796

Marine Pollutant: No

Sulfuric Acid

Class 8

PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory

DSCL (EEC): Listed on the DSCL inventory

SARA 302/304: Sulfuric Acid

SARA 311/312: Sulfuric Acid

SARA (TITLE 313): Sulfuric Acid (aerosol)

CALIFORNIA PROP. 65: Sulfuric Acid

WHMIS CANADA: CLASS E: Corrosive material. CLASS D-1A: Material causing other toxic effects (VERY TOXIC).

SECTION 16 OTHER INFORMATION

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