



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: SULFURIC ACID 50%
Preparation Date: 5/7/2014
Revised: 11/11/2020

Manufacturer's Name & Address

Roberts Chemical Co., Inc.
330-B Victor Road
Attleboro, MA 02703
TEL: 508-409-0220
FAX: 508-222-2752
www.robertschem.com

Emergency Telephone Number:

CHEMTREC 24-Hour Toll Free (800) 424-9300

SECTION 2: HAZARD(S) IDENTIFICATION



Signal Word: Danger!

Hazard Statements: May be fatal if inhaled. Causes severe respiratory tract burns. Causes eye and skin burns. Harmful if swallowed. May cause target organ damage, bases on animal data.

Pictogram: Corrosive, Respiratory Sensitizer, and Irritant

Precautionary Statements:

Prevention:

Avoid exposure – obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Response:

If swallowed: Immediately contact a physician. May be fatal if swallowed. My cause burns to mouth, throat and stomach.

If on skin or hair: take off immediately all contaminated clothing. Rinse skin with water/shower. Contact physician if there is skin inflammation.

If inhaled: Remove person to fresh air and keep comfortable breathing. Get immediate medical attention.

If in eyes: Rinse cautiously with water for several minutes. Get immediate medical attention.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water.

Disposal: Dispose of contents/container in accordance with local, regional, national or international regulations.



SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

PRODUCT	CAS#	% BY WEIGHT
Sulfuric Acid	7664-93-9	50

SECTION 4: FIRST-AID MEASURES

Eyes: Flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention IMMEDIATELY.

Skin: Immediately wash contaminated areas with plenty of water for 15 minutes. Remove contaminated clothing and footwear, and wash before reuse. Discard any clothing that cannot be decontaminated. Seek medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting. Get medical aid immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Inhalation: POISON material. If inhaled, get medical aid immediately. Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Note to Physician: Monitor arterial blood gases, chest x-ray, and pulmonary function tests if respiratory tract irritation or respiratory depression is evident. Treat dermal irritation or burns with standard topical therapy. Effects may be delayed. Do NOT use sodium bicarbonate in an attempt to neutralize the acid.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the product: Non-Flammable.

Fire extinguishing media:

Suitable: Use an extinguishing agent suitable for the surrounding fire.

Hazardous thermal decomposition products: Sulfur oxides and Nitrogen oxides.

Special protective equipment for fire-fighters: N/A

Special Remarks on fire hazards: Not flammable but highly reactive. Strong dehydrating agent, which may cause ignition of finely divided combustible materials on contact. Sulfuric acid is not compatible with steel.

Special remarks on explosion hazards: Reacts violently with water with the evolution of heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spills/Leaks: Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in Section 8. Carefully scoop up and place into appropriate disposal container. Provide ventilation. Do not expose spill to water. Cover with dry earth, dry sand, or other non-combustible material followed with plastic sheet to minimize spreading and contact with water.

SECTION 7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not allow contact with water. Discard contaminated shoes. Use only with adequate ventilation. Do not breathe spray or mist.



Storage: Do not store near combustible materials. Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from water. Corrosives area. Do not store near alkaline substances. Store protected from moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits:

Final PELs

Water=none listed

Sulfuric acid 0.2 mg/m³ TWA 1mg/m³ TWA 15 mg/m³

IDLH 1 mg/m³ TWA

Personal Protection:

Eyes: Wear chemical splash goggles and face shield.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid.

Odor: *slight odor*

Color: clear

Molecular Formula: H₂SO₄

pH: 0.3

Vapor Pressure: < .00120 mm Hg

Vapor Density: Not available.

Evaporation Rate: >1

Viscosity: Not available

Boiling Point: 105-325° C (20-100% H₂SO₄)

Freezing/Melting Point: 11°C

Decomposition Temperature: Not available

Solubility: Soluble in water

Specific Gravity/Density: 1.1-1.3

Molecular Weight: 98.0716

SECTION 10: STABILITY AND REACTIVITY

Stability: The product is stable

Conditions to avoid: Avoid exposure – obtain special instructions before use.

Incompatibility (materials to avoid): Reactive or incompatible with following materials: reducing materials, organic materials, alkalis and moisture.

Polymerization: Under normal conditions of storage and use, hazardous polymerization will not occur.



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Hazardous Decomposition: Toxic gases and vapors may be released when sulfuric acid decomposes.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Product	Result	Species	Dose	Exposure
Sulfuric Acid	LD50 Oral	Rat	2140 mg/kg	-

Irritation/Corrosion

Product	Result	Species	Score	Exposure
Sulfuric Acid	Eyes-Severe irritant	Rabbit		0.5 min 5 mg

Chronic Toxicity

Product	ACGIH	IARC	EPA	NTP
Sulfuric acid mist	A2	1	-	Proven

IDLH: 15 mg/m³

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects: Not established

Aquatic Eco toxicity

Product	Result	Species	Exposure
Sulfuric Acid	Acute LC50 42500 ug/L Marine water	Crustaceans-Pandalus Montagui-adult	48 hours

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Avoid dispersal or spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14: TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Sulfuric Acid

HAZARDOUS CLASSIFICATION: 8

IDENTIFICATION NUMBER: UN 2796

PKG GROUP: PG II



Label:

SECTION 15: REGULATORY INFORMATION



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United States

HCS Classification:	Highly toxic material Corrosive material Target organ effects
U.S. Federal regulations:	United States Inventory (TSCA 8b): All components are listed or exempted.

SECTION 16: OTHER INFORMATION

All information, recommendations and suggestions appearing herein concerning this product are based upon data believed to be reliable; however, it is the user's responsibility to determine the safe handling and suitability for the use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by **Roberts Chemical** as to the effects of such use, the results obtained, or the safety and toxicity of the product, nor does **Roberts Chemical** per se assume any liability arising out of use, by others, of the product referred to herein. Nor is the information herein to be construed as absolutely complete since more information may be desirable or necessary when particular or exceptional conditions or circumstances exist, or because of applicable laws or government regulations.