

MSDS # 747.00

Sulfuric Acid Quickprep



Section 1: Product and Company Identification

Sulfuric Acid Quickprep

Synonyms/General Names: N/A**Product Use:** For educational use only**Manufacturer:** Columbus Chemical Industries, Inc., Columbus, WI 53925.

24 Hour Emergency Information Telephone Numbers

CHEMTREC (USA): 800-424-9300**CANUTEC (Canada):** 613-424-6666

Scholar Chemistry; 5100 W. Henrietta Rd, Rochester, NY 14586; (866) 260-0501; www.Scholarchemistry.com

Section 2: Hazards Identification

*Clear, colorless liquid, very slight odor.***DANGER!** Strongly corrosive to body tissue and toxic by ingestion. When added to water will release large amounts of heat.

Target organs: Respiratory system, eyes, skin, teeth.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

HMIS (0 to 4)

Health	4
Fire Hazard	0
Reactivity	3

Section 3: Composition / Information on Ingredients

Sulfuric Acid (7664-93-9), 93-98% .

Water (7732-18-5), balance.

Section 4: First Aid Measures

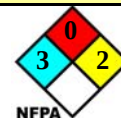
*Always seek professional medical attention after first aid measures are provided.***Eyes:** Immediately flush eyes with excess water for 15 minutes, lifting lower and upper eyelids occasionally.**Skin:** Immediately flush skin with excess water for 15 minutes while removing contaminated clothing.**Ingestion:** Call Poison Control immediately. **Do not induce vomiting.** Rinse mouth with cold water. Give victim 1-2 cups of water or milk to drink.**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration.

Section 5: Fire Fighting Measures

When heated to decomposition, emits acrid fumes of sulfur trioxide and sulfur dioxide. Reacts with metals to form explosive hydrogen gas.

Protective equipment and precautions for firefighters: Use foam or dry chemical to extinguish fire.

Firefighters should wear full fire fighting turn-out gear and respiratory protection (SCBA). Cool container with water spray. Material is not sensitive to mechanical impact or static discharge.



Section 6: Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all ignition sources and ventilate area. Contain spill with sand or absorbent material and place material in a sealed bag or container for disposal. Wash spill area after pickup is complete. See Section 13 for disposal information.

Section 7: Handling and Storage

White**Handling:** Use with adequate ventilation and do not breathe dust or vapor. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Use extreme caution when diluting with water [always add the acid to the water], excessive heat is produced.**Storage:** Store in Corrosive Area [White Storage] with other corrosive items. Store in a dedicated corrosive cabinet. Store in a cool, dry, well-ventilated, locked store room away from incompatible materials. Yellow safety color coded cap.

Section 8: Exposure Controls / Personal Protection

Use ventilation to keep airborne concentrations below exposure limits. Have approved eyewash facility, safety shower, and fire extinguishers readily available. Wear chemical splash goggles and chemical resistant clothing such as gloves and aprons. Wash hands thoroughly after handling material and before eating or drinking. Use NIOSH-approved respirator with an acid/organic cartridge. Exposure guidelines Sulfuric Acid: OSHA PEL: 1 mg.m³ and ACGIH TLV: 0.2 mg.m³, STEL: N/A.

Section 9: Physical and Chemical Properties

Molecular formula	H ₂ SO ₄ .	Appearance	Clear, colorless liquid.
Molecular weight	98.08.	Odor	Very slight odor.
Specific Gravity	1.83 g/mL @ 20°C.	Odor Threshold	N/A.
Vapor Density (air=1)	3.4.	Solubility	Completely soluble in water.
Melting Point	11°C.	Evaporation rate	N/A. (Butyl acetate = 1).
Boiling Point/Range	337°C.	Partition Coefficient	N/A. (log P _{OW}).
Vapor Pressure (20°C)	N/A.	pH	0, very acidic, (corrosive).
Flash Point:	N/A.	LEL	N/A.
Autoignition Temp.:	N/A.	UEL	N/A.

Section 10: Stability and Reactivity

Avoid heat and ignition sources.

Stability: Stable under normal conditions of use and storage.

Incompatibility: Alkalis, amines, anhydrides, combustibles, organics, powdered metals.

Shelf life: Indefinite if stored properly.

Section 11: Toxicology Information

Acute Symptoms/Signs of exposure: **Eyes:** Redness, tearing, itching, burning, damage to cornea, conjunctivitis, loss of vision. **Skin:** Redness, blistering, burning, itching, tissue destruction with slow healing. **Ingestion:** Nausea, vomiting, burning, diarrhea, ulceration, convulsions, shock. **Inhalation:** Coughing, wheezing, shortness of breath, headache, spasm, inflammation and edema of bronchi, pneumonitis.

Chronic Effects: Repeated/prolonged skin contact may cause thickening, blackening or cracking. Repeated eye exposure may cause corneal erosion or loss of vision.

Sensitization: none expected

Sulfuric Acid: LD50 [oral, rabbit]; 2140 mg/kg; LC50 [rat]; 510 mg/m³/2hr; LD50 eye [rabbit]; 100 mg severe

Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.

Section 12: Ecological Information

Ecotoxicity (aquatic and terrestrial): Ecological impact has not been determined.

Section 13: Disposal Considerations

Check with all applicable local, regional, and national laws and regulations. Local regulations may be more stringent than regional or national regulations. Small amounts of this material may be suitable for sanitary sewer disposal after being neutralized to pH 7.

Section 14: Transport Information

DOT Shipping Name:	Sulfuric Acid.	Canada TDG:	Sulfuric Acid.
DOT Hazard Class:	8, pg II.	Hazard Class:	8, pg II.
Identification Number:	UN1830.	UN Number:	UN1830.

Section 15: Regulatory Information

EINECS: Listed (231-639-5).

WHMIS Canada: E, D1A: Corrosive liquid, Very toxic material.

TSCA: All components are listed or are exempt.

California Proposition 65: Not listed .

The product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16: Other Information

Current Issue Date: January 23, 2009

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