

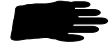


Material Safety Data Sheet



HMIS

Health Hazard	3
Fire Hazard	0
Reactivity	2



PPE (See Section 15)

Section 1. Chemical Product and Company Identification

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Trade Name	Concentrated Sulfuric Acid	Part #	RE2030
		CAS #	7664-93-9
Manufacturer	HazTech Systems, Inc. PO Box 929 Mariposa, CA 95338	RTECS	WS5600000
		TSCA	TSCA 8(b) inventory: Sulfuric acid
Commercial Name	Sulfuric Acid	CI #	
Synonyms	Hydrogen sulfate		
Chemical Formula	H ₂ SO ₄		
Supplier	Spectrum Chemical Mfg. Corp. 14422 S. San Pedro St. Gardena, CA 90248		

In case of emergency contact CHEMTREC
(24 hours) at 800-424-9300

HazTech Systems, Inc. 800-543-5487

Spectrum Chemical Mfg. Corp. 310-516-8000

Section 2. Composition and Information on Ingredients

Exposure Limits

Name	CAS #	TWA (mg/m ³)	STEL	CEIL (mg/m ³)	% by Weight
Sulfuric acid	7664-93-9	1	3		100%

Toxicological Data on Ingredients	Sulfuric acid: ORAL (LD50): Acute: 2140 mg/kg (Rat). VAPOR (LC50): Acute: 255 ppm 4 hours (Rat).
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Section 3. Hazards Identification

Potential Acute Health Effects	Extremely hazardous in case of skin contact (corrosive), of eye contact (irritant), of ingestion. Very hazardous in case of skin contact (irritant, permeator). Hazardous in case of inhalation. Slightly hazardous in case of skin contact (sensitizer). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching.
Potential Chronic Health Effects	Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs, mucous membranes. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to an highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.



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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. If the chemical got on the victim's exposed skin, such as the hands: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

Section 5. Fire and Explosion Data

Flammability	Non-flammable.
Auto-Ignition Temperature	Not applicable.
Flash Point	Not applicable.
Flammable Limits	Not applicable.
Products of Combustion	Not applicable.
Fire Hazards in Presence of Various Substances	Not applicable.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions	Not applicable.
Special Remarks on Fire Hazards	Not applicable.

Section 6. Accidental Release Measures

Small Spill	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.
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Section 7. Handling and Storage

Precautions	If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes
Storage	Keep in HazCat Kit.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use in a well ventilated area.
Personal Protection	Gloves and goggles.



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Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid. (Thick oily liquid.)	Volatility	Not available
Molecular Weight	98.08 g/mole	Odor Threshold	Not available
pH (1% Solution in Water)	1 (Acidic)	Water/Oil Dist. Coeff.	Not available
Boiling Point	290°C (554°F)	Ionicity (in Water)	Not available
Melting Point	10.49°C (50.9°F)	Dispersion Properties	Not available
Critical Temperature	Not available	Solubility	Easily soluble in water. Insoluble in methanol, diethyl ether.
Specific Gravity	1.84 (Water = 1)	Odor	Sulfurous. (Slight.)
Vapor Pressure	0.01 mm of Hg (@ 20°C)	Taste	Toxic by ingestion. (Strong.)
Vapor Density	3.4 (Air = 1)	Color	Colorless.

Section 10. Stability and Reactivity Data

Stability	Product is stable.	Corrosivity	Extremely corrosive in presence of copper. Highly corrosive in presence of steel, of aluminum, of zinc.
Instability Temperature	Not available.		
Conditions of Instability	Not available.	Special Remarks on Corrosivity	Reacts violently with water especially when water is added to the product.
Incompatibility with Various Substances	Highly reactive with metals, alkalis, moisture. Reactive with organic materials, acids.	Polymerization	Will not polymerize.

Section 11. Toxicological Information

Route of Entry	Dermal contact. Eye contact. Inhalation. Ingestion. Not available.
Toxicity to Animals	Acute oral toxicity (LD50): 2140 mg/kg (Rat). Acute toxicity of the vapor (LC50): 255 ppm 4 hours (Rat).
Chronic Effects on Humans	The substance is toxic to lungs, mucous membranes. The substance is not toxic to blood, kidneys, liver.
Other Toxic Effects on Humans	Extremely hazardous in case of skin contact (corrosive), of ingestion. Very hazardous in case of skin contact (irritant, permeator). Hazardous in case of inhalation. Slightly hazardous in case of skin contact (sensitizer).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	Not available.
Special Remarks on Other Toxic Effects on Humans	

Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

