



# SAFETY DATA SHEET

## Sulfuric Acid, 98%

### Section I. Identification of substance/preparation and company

#### Identification of the substance or preparation

**Product Name** : Sulfuric Acid, 98%  
**Synonyms** :  
**CAS#** : 7664-93-9  
**Use of the substance/preparation** : Acid

**Manufacturer/Supplier** : Ninigret Building XI  
Sun Products Corporation  
Attn: Consumer Relations  
4750 West 2100 South, Suite 200  
Salt Lake City, UT 84120

**General Information Number** : 1-832-261-2000 (24 hours)  
**Emergency Telephone Number** : 1-800-565-5597 (24 hours, ProSAR)  
**Poison Control** : 1-800-222-1222 (24 hours)  
**Chemtrec** : 1-800-424-9300 (24 hours, Transportation Emergencies)

### Section II. Composition/Information on ingredients

Ingredients as defined by the OSHA Hazard Communication Standard (29CFR § 1910.1200):

Chemical Name	CAS Number	ACGIH TLV	OSHA PEL	NIOSH REL	%
Sulfuric acid	7664-93-9	TLV - 0.2mg/m <sup>3</sup> (TWA)	PEL-TWA 1 mg/m <sup>3</sup>	REL-TWA 1 mg/m <sup>3</sup> and IDLH 15 mg/m <sup>3</sup>	98%

### Section III. First Aid Measures

Routes of Exposure	First Aid Instructions
<b>Eye Contact</b>	: Promptly flush with large amounts of water for at least 15 minutes. Remove any contact lenses. Contact physician if redness or irritation persists.
<b>Skin Contact</b>	: Promptly rinse skin with water for at least 15 minutes. Remove contaminated clothing and

		shoes. Wash or dispose contaminated clothing. Contact physician if redness or irritation persists.
<b>Ingestions (swallowed)</b>	:	Do not induce vomiting. Drink a glass of milk or water. Call a physician immediately.
<b>Inhalation</b>	:	Move to fresh air. Contact a physician immediately.
<b>Other</b>	:	
* If symptoms persist, contact a physician		

## Section IV. Fire Fighting Measures

<b>Flash Point – Method:</b>	:	Non-Flammable
<b>Autoignition Temperature</b>	:	ND
<b>Flammable Limits</b>	<b>UFL</b>	: ND
	<b>LFL</b>	: ND
<b>Extinguishing Media</b>	:	Water mist, carbon dioxide, foams or dry chemicals.
<b>Special Fire Fighting Procedures</b>	:	In the event of fire, wear full protective clothing and self-contained breathing apparatus.
<b>Fire / Explosion Hazard</b>	:	Do not mixed with incompatible materials.
<b>Hazardous Combustion Products</b>	:	None
<b>Content Under Pressure</b>	:	No
<b>Explosive</b>	:	No

## Section V. Accidental Spill or Release Measures

<b>Small or household Quantities</b>	:	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.
<b>Large (industrial) release</b>	:	Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

## Section VI. Safe Handling and Storage

Necessary precautions: Keep locked up. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, reducing agents, combustible materials, organic materials, metals, acids, alkalis, moisture. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

Keep in tightly closing container. Store in a cool, well ventilated area. store at temperatures between 40 F to 90 F.

## Section VII. Exposure Control/Personal Protection

<b>For routine consumer use</b>	:	Not for household use.
<b>For industrial activities</b>	:	
	<b>Respiratory Protection</b>	: Provide exhaust ventilation or other controls to keep the

		airborne concentrations of vapors below respective threshold limit values.
	<b>Hand Protection</b>	: Gloves should be worn for protection. Consult gloves supplier for suitable material.
	<b>Eye Protection</b>	: Goggles or other protective eye wear may be worn for protection.
	<b>Skin Protection</b>	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

## Section VIII. Physical & Chemical Data

<b>Appearance</b>	:	Liquid
<b>Odor</b>	:	Odorless
<b>Color</b>	:	Clear liquid
<b>Boiling Point</b>	:	> 500 F
<b>Melting Point</b>	:	ND
<b>Freezing Point</b>	:	ND
<b>Evaporation Rate</b>	:	ND
<b>Density (lbs/gal)</b>	:	ND
<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	:	1.84
<b>Solubility in Water</b>	:	Soluble
<b>Vapor Pressure</b>	:	ND
<b>Viscosity</b>	:	ND
<b>pH</b>	:	Acidic, approximately 2.1
<b>pH (1% aqueous solution)</b>	:	ND
<b>%Volatile</b>	:	ND
<b>Other</b>	:	

## Section IX. Stability & Reactivity Data

<b>Stable</b>	:	Yes
<b>Conditions to Avoid</b>	:	Incompatible materials, excess heat, combustible materials, organic materials, exposure to moisture, oxidizers, amines, bases. Always add acid to water.
<b>Incompatibilities</b>	:	Strong oxidizers, acids, water, or bases
<b>Hazardous Decomposition</b>	:	None known
<b>Hazardous Polymerization</b>	:	Not available
<b>Corrosive to Steel, Aluminum</b>	:	Dilute acids attack most metals.

## Section X. Toxicology & Health Data

<b>Potential acute health effects</b>	:	Adverse health effects are considered unlikely when the product is used according to directions and with appropriate safety gear.
<b>LD50</b>	:	2140 mg/kg (Rat)
<b>Threshold Limit Value</b>	:	Inhalation TWA: 1 STEL: 3 (mg/m <sup>3</sup> ) from ACGIH (TLV)
<b>Effects of Acute Exposure</b>		
<b>Ingestion</b>	:	Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting, and

		delayed diarrhea.
<b>Inhalation</b>	:	While inhalation of a product mist is unlikely, such exposure may cause upper respiratory damage.
<b>Skin Contact</b>	:	Contact with skin can cause hazardous damage (corrosive, irritant, permeator).
<b>Eye Contact</b>	:	May cause damage to eye.
<b>Effects of Chronic Exposure</b>	:	None expected
<b>Carcinogen Status</b>	:	<p>CARCINOGENIC EFFECTS: Classified 1 (Proven for human.) by IARC, + (Proven.) by OSHA. Classified A2 (Suspected for human.) by ACGIH. May cause damage to the following organs: kidneys, lungs, heart, cardiovascular system, upper respiratory tract, eyes, teeth.</p> <p>Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant, permeator), of eye contact (corrosive), of ingestion.</p> <p>Mutagenicity: Cytogenetic Analysis: Hamster, ovary = 4mmol/L Reproductive effects: May cause adverse reproductive effects based on animal data. Developmental abnormalities (musculoskeletal) in rabbits at a dose of 20 mg/m3 for 7 hrs.(RTECS)</p> <p>Teratogenicity: neither embryotoxic, fetotoxic, nor teratogenic in mice or rabbits at inhaled doses producing some maternal toxicity.</p>

## Section XI. Ecological Information

<b>Other adverse effects</b>	:	This product is not expected to harm the environment when used properly according to directions.
<b>Biodegradable</b>	:	Not Determined
<b>Bioaccumulation</b>	:	Not expected to be bioaccumulating.

## Section XII. Recommended Waste Disposal Considerations

<b>Method of disposal</b>	:	Product does meet the criteria of a hazardous waste under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with all regulations applicable to RCRA hazardous waste. Dispose of all containers in accordance with federal, state, and local requirements.
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## Section XIII. Transportation Information

<b>Regulatory Information</b>	<b>Land (US DOT)</b>	<b>Air (IATA/ICAO)</b>	<b>Water (IMO/IMDG)</b>
<b>Proper Shipping Name</b>	Sulfuric acid (with more than 51% acid)	Not Available	Sulfuric acid (with more than 51% acid)
<b>Hazard Class</b>	8	Not Available	8
<b>UN Number</b>	1830	Not Available	1830
<b>Packing Group</b>	II	Not Available	II
<b>Label Required</b>	8	Not Available	8
<b>Additional Information</b>		Not Recommended not Air Shipment.	

## Section XIV. Regulatory Information

<b>SARA 302 Hazardous Substances</b>	:	1000 RQ, 1000 TPQ
<b>SARA 304</b>	:	Extremely Hazardous Substance

<b>SARA 311/312 Hazard Categories</b>	:	Extremely Hazardous Substance (acute)
<b>SARA 313 Emissions Reporting</b>	:	1000 lbs
<b>Proposition 65 Listed Chemicals</b>	:	Strong Inorganic mists containing sulfuric acid
<b>TSCA</b>	:	All components of this product comply with TSCA inventory listing requirements
<b>RCRA</b>	:	See Section XI – Recommended Waste Disposal Considerations
<b>CAA HAPS or Ozone Depletory</b>	:	Not available
<b>CA 22 CCR Hazardous Wastes</b>	:	Not available
<b>IL, MA, NJ, PA, RI State RTK &amp; Hazardous Notifications</b>	:	Illinois toxic substances disclosure to employee act: Sulfuric acid New York release reporting list: Sulfuric acid Rhode Island RTK hazardous substances: Sulfuric acid Pennsylvania RTK: Sulfuric acid Minnesota: Sulfuric acid Massachusetts RTK: Sulfuric acid New Jersey: Sulfuric acid California Director's List of Hazardous Substances (8 CCR 339): Sulfuric acid Tennessee RTK: Sulfuric acid.
<b>Canadian DSL/NDSL</b>	:	Yes CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

## Section XV. Hazard Rating Information

<b>Extreme</b>	=	4
<b>Insignificant</b>	=	0
<b>Health</b>	:	3
<b>Fire</b>	:	0
<b>Reactivity</b>	:	2

## Section XVI. Other Information

<b>HISTORY</b>		
<b>Date of Issue</b>	:	03/15/2011
<b>Date of Previous Issue</b>	:	01/06/2009
<b>Version</b>	:	3.0

N/A: Not Applicable  
ND : Not Determined

### Notice to reader

Sun Products Corporation cannot anticipate all conditions of handling and use of this product. Therefore, Sun Products Corporation accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products.

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