

# Safety Data Sheet

## Section 1 - Product and Company Identification

Product Name: SULFURIC ACID 1.800 (87%) Product Code: MI-1133

Milport Enterprises, Inc  
2829 S. 5th Court  
Milwaukee WI 53207  
(414) 769-7350  
info@milport.com

Telephone Numbers  
During normal business hours call: (414) 769-7350  
Transportation Emergency Call Chemtrec: (800) 424-9300

Product Use: This product is manufactured for Commercial/Industrial use.  
Not recommended for: Household use.

## Section 2 - Hazards Identification

### GHS Ratings:

Corrosive to metals	1	Corrosive to metals
Inhalation Toxicity	Acute Tox. 3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Carcinogen	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity

### GHS Hazards

H290	May be corrosive to metals
H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H350	May cause cancer

### GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P311	Call a POISON CENTER or doctor/physician
P321	Specific treatment (see Section 4 of the SDS or the First Aid section of the label)
P363	Wash contaminated clothing before reuse
P390	Absorb spillage to prevent material damage.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing

P308+P313 IF exposed or concerned: Get medical advice/attention

P405 Store locked up

P406 Store in a corrosive resistant/... container with a resistant inner liner

P403+P233 Store in a well ventilated place. Keep container tightly closed

P501 Dispose of contents/container to appropriate waste site or reclaimer in accordance with local and national regulations

**Signal Word: Danger**



**Section 3 - Composition**

Chemical Name	CAS number	Weight Concentration %
Sulfuric acid	7664-93-9	87.00%

**Section 4 - First Aid Measures**

**Inhalation:**

Remove from further exposure. For those providing assistance, avoid exposure to yourself. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, a trained individual should attempt to resuscitate while getting immediate medical aid.

**Eye Contact:**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes.

**Skin Contact:**

In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.

**Ingestion:**

If conscious, give 2 to 3 glasses of water. Do not induce vomiting and seek medical attention immediately.

**Notes to Physician:**

No data found.

**Section 5 - Fire Fighting Measures**

Flash Point: N/A

LEL:

UEL:

**Flammable Limits:**

Flash Point: No data available.

**Extinguishing Media:**

Use extinguishing agent suitable for type of surrounding fire.

**Unusual Fire or Explosion Hazards:**

Reacts vigorously and/or explosively with water.

**Hazardous Combustion Products:**

See Section 10 for a list of hazardous decomposition products for this mixture.

**Fire Fighting:**

If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

**Fire Fighting:**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## Section 6 - Accidental Release Measures

Isolate the area and contain the spilled material. Persons not wearing the appropriate PPE should be removed from the area until the spill is cleaned up. Stop leak if you can do it without risk, stay upwind, and avoid run off to waterways and sewers.

**SMALL SPILLS:** Prevent entry into waterways, sewers, basements or confined areas. Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal.

**LARGE SPILLS:** Prevent entry into waterways, sewers, basements or confined areas. Dike to collect large liquid spills, collect leaking liquid in sealable compatible containers.

**ACID SPILLS:** Neutralize with Soda Ash, (Sodium Carbonate) Hydrated Lime, (Calcium Hydroxide) or Baking Soda (Sodium Bicarbonate).

Cautiously neutralize remainder. Then wash away with plenty of water.

## Section 7 - Handling and Storage

### Handling Precautions:

Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containment closed when not in use. Do not handle or store material near heat, sparks, or open flames, or other sources of ignition.

### Storage:

Prevent from freezing. Store at room temperatures, i.e., 40 to 95 F (4 to 35 C)

### Regulatory Requirements:

No data found

## Section 8 - Exposure Control and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Sulfuric acid 7664-93-9	1 mg/m3 TWA	0.2 mg/m3 TWA (thoracic fraction)	NIOSH: 1 mg/m3 TWA

### Engineering controls:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Ensure that eyewash stations and safety showers are close to the workstation location.

### Ventilation Control:

Provide adequate ventilation to control airborne concentration below the exposure guidelines/limits.

### Administrative controls:

No data found.

### Personal Protection:

As prescribed in the OSHA Standard for Personal Protective Equipment (29 CFR 1910.132), employers must perform a hazard Assessment of all workplaces to determine the need for proper protective equipment for each employee.

### Eye Protection:

Normal industrial eye protection practices should be employed.

### Skin Protection:

In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

### Respiratory:

If airborne concentration limits are not met, an approved respirator must be worn.

### Contaminated Equipment:

Dispose of the waste in compliance with federal, state, regional, and local regulations.

## Section 9 - Physical and Chemical Properties

<b>Appearance</b> Clear, Colorless <b>Physical State</b> Liquid <b>Odor threshold:</b> Not Determined <b>pH:</b> Strong Acid <1 <b>Melting point:</b> Not Determined <b>Solubility:</b> Complete	<b>Odor</b> Odorless <b>Vapor Pressure:</b> Not Determined <b>Vapor Density:</b> Not Determined <b>Density:</b> 1.8 <b>Freezing point:</b> Not Determined <b>Boiling range:</b> 100°C
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<p><b>Flash point:</b> 999 C, 999 F</p> <p><b>Flammability:</b> Not Determined</p> <p><b>Partition coefficient (n- octanol/water):</b> Not Determined</p> <p><b>Decomposition temperature:</b> Not Determined</p>	<p><b>Evaporation rate:</b> Not Determined</p> <p><b>Explosive Limits:</b> 0%</p> <p><b>Autoignition temperature:</b> N/A</p> <p><b>Viscosity:</b> Not Determined</p>
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**Section 10 - Stability and Reactivity**

**Stability:**

STABLE

**Incompatibilities:**

Avoid contact with strong bases.

**Hazardous Decomposition Products:**

Note: these are all possible decomposition products based on molecular structure of components.

Oxides of Sulfur  
 Hazardous polymerization will not occur.

**Section 11 - Toxicological Information**

**Mixture Toxicity**

Oral Toxicity LD50: 2,453mg/kg  
 Inhalation Toxicity LC50: 1mg/L

**Component Toxicity**

7664-93-9 Sulfuric acid  
 Oral LD50: 2,140 mg/kg (Rat) Inhalation LC50: 510 mg/m3 (Rat)

**Routes of entry:**

No data found.

**Target Organs:**

Eyes Skin Respiratory System

**Effects of Overexposure**

Causes severe skin burns and eye damage

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
7664-93-9	Sulfuric acid	87	Sulfuric acid: IARC: Human carcinogen IARC: Human carcinogen OSHA: listed

**Section 12 - Ecological Information**

**Ecotoxicity:**

No data available for this product.

**Component Ecotoxicity**

Sulfuric acid 96 Hr LC50 Brachydanio rerio: >500 mg/L [static]

**Section 13 - Disposal**

**Disposal Instructions:**

Refer to the latest federal, state, and local regulations regarding proper disposal.

**Section 14 - Transportation Information**

The following is for US DOT Highway transportation. Other modes/jurisdictions may have different classifications.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
US DOT	Sulfuric Acid 87%	UN1830	II	8

**Section 15 - Regulatory Information**

This listing is to highlight federal level regulation of the product. Individual states, and other nations may have further regulations not listed below.

US DOT List of Marine Pollutants (172.101 - Appendix B)  
- None

US DOT List of Hazardous Substances and Reportable Quantities (172.101 Appendix A)  
7664-93-9 Sulfuric acid 87 %

US DOT List of Severe Marine Pollutants (172.101 - Appendix B)  
- None

SARA Section 302 Extremely Hazardous Substances (40 CFR 355):  
7664-93-9 Sulfuric acid 87 %

Sara Section 302 Threshold Planning Quantity.  
7664-93-9 Sulfuric acid 87 %

SARA Section 313, Toxic Chemicals (40 CFR 372.65):  
7664-93-9 Sulfuric acid 87 %

SARA Reportable Quantity.  
7664-93-9 Sulfuric acid 87 %

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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**Toxic Substances Control Act (TSCA):**  
All components are listed or exempt from the Toxic Substances Control Act except those listed below.  
- None

**Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1985 (SARA):**  
This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.  
7664-93-9 Sulfuric acid 87.0%

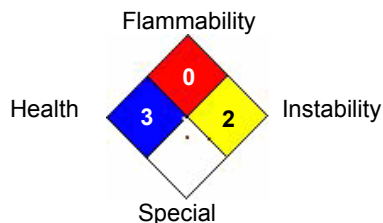
**Section 16 - Other Information**

**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	<input type="text" value="3"/>
<b>FLAMMABILITY</b>	<input type="text" value="0"/>
<b>PHYSICAL HAZARD</b>	<input type="text" value="2"/>
<b>PERSONAL PROTECTION</b>	<input type="text" value="D"/>

**HMIS & NFPA Hazard Rating Legend**  
\* = Chronic Health Hazard  
0 = INSIGNIFICANT  
1 = SLIGHT  
2 = MODERATE  
3 = HIGH

**National Fire Protection Association (NFPA)**



The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional

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Written by Thomas Grego

Reviewer Revision

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