

SAFETY DATA SHEET



Date issued : 11/04/2015
SDS number : 7664939-98
Date revised : 07/17/2024
Revision number : 4

Sulfuric Acid, 93%

1. Identification

Product code: 7664939-98
Product identifier: Sulfuric Acid, 93%

Manufacturer / Supplier

John-Henry Enterprises, Inc.
800 Central Ave.
Jefferson, LA 70121

Emergency contact: H. Zeller

Emergency Phone: 504-888-8989

Web: www.john-henry.com

Emergency telephone number (24 hour)

US/Canada: 800-535-5053

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Eye Corrosion, Category 1
Skin Corrosion, Category 1

Physical hazards:

Corrosive to Metals, Category 1

Label elements



Severe
Irritant/Corrosive

Signal word: DANGER

Hazard statement(s)

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.

Precautionary statement(s)

Supplemental label elements:

P102: Keep out of reach of children.
P103: Read carefully and follow all instructions.

Prevention:

9913FBB7: Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.
P363: Wash contaminated clothing before reuse.

Response:

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage:

75990X3S: Keep only in original container. Store in a cool, well-ventilated space. Keep container tightly closed.

Disposal:

P501: Dispose of contents/container to ...

Potential health effects

Eye: Corrosive to the eyes and may cause severe damage including tissue destruction and/or blindness.

Skin: Corrosive, causes skin burning.

Ingestion: Causes irritation, burns, and damage to mouth, throat, esophagus, and stomach. May be fatal if swallowed.

Inhalation: Mists or sprays can be severely irritating to eyes and respiratory tract.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Sulfuric Acid	~ 93	7664-93-9

4. First-aid measures

Eye: Treat eye contact and a medical emergency (call 911). Gently hold eyelids open and immediately flush eyes with water for at least 15 minutes or until pain eases. Remove contact lenses if possible. Cover eyes loosely with sterile dressing and SEEK IMMEDIATE MEDICAL ATTENTION.

Skin: Remove contaminated clothing and footwear. Flush off with copious amounts of running water. Seek medical attention for burns or if irritation persists or worsens.

Ingestion: Get immediate medical attention (call 911). Rinse mouth with water. Do not induce vomiting unless instructed to do so by poison center or physician. Give patient water and milk of magnesia or other antacid tablets unless unconscious or convulsing. Keep patient warm and comfortable. Treat for shock.

Inhalation: If affected by vapors, spray or mist, move to fresh air. Seek medical attention if symptoms persist or worsen. Give oxygen if breathing is difficult and seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

Eye: Severe irritation or pain, tearing, redness, blurring and/or temporary or permanent loss of vision. May cause burns to and around eyes.

Skin: Severe irritation and burns.

Ingestion: Harmful or fatal if swallowed. Can cause irritation, gastric upset, burns and damage (corrosion) to mouth, throat, esophagus and gastrointestinal tract.

Inhalation: Spray or mists can severely irritate eyes, nose, throat, and respiratory tract causing coughing, sneezing, difficulty breathing, etc.

Indication of immediate medical attention and special treatment needed, if necessary: Treat symptomatically. Treat for thermal burns. Take precautions to prevent exposure to emergency and medical personnel to material.

5. Fire-fighting measures

Flammable class: Not Applicable

Suitable extinguishing media: Not applicable - not combustible

Hazardous combustion products: Boiling material will produce acid fumes

Explosion hazards: Containers can burst if exposed to flames or high temperatures.

Fire fighting procedures: Wear self-contained breathing apparatus when fighting chemical fires. Use water fog or spray to cool containers and/or disperse product vapors.

6. Accidental release measures

Small spill: Wear recommended PPE. Contain and absorb spilled material. Dispose of contaminated absorbant properly. Wash spill area with water.

Large spill: Wear appropriate PPE. Ventilate the area and remove uninvolved personnel from area. Stop flow. Contain spill and keep from entering sewer or surface waterways. Collect spill into suitable, properly labeled containers for use or disposal. Rinse spill area with water.

Environmental precautions

Water spill: Do not discharge to or allow to enter surface waterways, drains, or public sewers

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes and skin. Avoid exposure to mists or sprays. Read and understand product label and SDS before handling any chemical. Always wear recommended personal protective equipment. Follow label cautions and instructions.

Conditions for safe storage: Store in original containers in well ventilated area away from strong alkalis or oxidizing materials. Keep containers tightly closed when not in use.

8. Exposure controls/personal protection

Exposure controls

Control parameters			
Occupational exposure limit values			
Chemical name	Type	ppm	mg/m ³
Sulfuric Acid	OSHA PEL	TWA	1
	ACGIH TLV	TWA	0.2
		STEL	

Appropriate engineering controls: Maintain sufficient ventilation in storage and use areas to prevent the accumulation of product vapors, fumes, spray, or mists. Provide local exhaust for enclosed areas.

Individual protection measures, such as personal protective equipment

Eye / face protection: Wear safety glasses or goggles and face shield (recommended) when handling.

Skin protection - hand protection: Wear acid resistant outer garments, impermeable boots and gloves when handling.

Respiratory protection: Use with adequate ventilation. Wear a NIOSH approved acid absorbing, air purifying respirator where fumes, mists or spray are excessive or exceed exposure limits.

Occupational hygiene practices: Wash thoroughly before eating, drinking, smoking, or using the facilities after handling any chemical product.

Other use precautions: Working eyewash stations and safety showers should be located in or near all areas where chemicals are stored or used.

9. Physical and chemical properties

Appearance: clear, colorless liquid

Odor: faint, acidic

pH: < 1.5

Notes: 1% in deionized water

Freezing point: 3°C (37°F)

Initial boiling point and boiling range: 290°C (554°F)

Flash point: none

Vapor pressure: < 0.1 mm Hg at (75°F)

Relative vapor density: Heavier than air

Relative density: 1.84

Solubility: Complete in all proportions.

Percent volatiles: No data

10. Stability and reactivity

Reactivity: Reactive with alkaline materials. Reacts with metals. Reacts (oxidizes) with organic materials.

Dangerous polymerization: Will not occur

Chemical stability: Stable

Possibility of hazardous reactions: Reacts with metals (releases hydrogen, a flammable gas). Reacts vigorously with concentrated alkalis to generate acidic steam. Reacts with organic materials and may cause combustion.

Hazardous decomposition products: Sulfur oxides

Incompatible materials: Concentrated alkalis and oxidizing agents. Organic materials and metals

11. Toxicological information

Acute toxicity

Acute oral toxicity LD₅₀: 2140 g/kg (rat)

Acute inhalation toxicity LC₅₀: 510 mg/l, 2 hr (rat)

Skin corrosion / irritation: Extremely corrosive and destructive to tissues (rabbit)

Serious eye damage / irritation: Eyes - Serious damage (rabbit)

12. Ecological information

Ecotoxicological information: No data

Aquatic toxicity, both acute and chronic

96-hour LC₅₀: 46 mg/l (mosquito fish)

48-hour EC₅₀: 29 mg/l (daphnia)

Bioaccumulative potential: No data

Environmental data: No data

13. Disposal considerations

Disposal methods: Offer surplus and non-recyclable material to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

For large spills: See Section 6

Empty container: Triple rinse container thoroughly with water and recycle.

RCRA hazard class: D002 - Corrosive (pH less than 2.5)

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: UN1860, Sulfuric Acid, 8, PG II

Technical name: SULFURIC ACID

UN number: UN1830

Transport hazard class(es): 8

Packing group, if applicable: II

Reportable quantity (rq) under CERCLA: 1000 pounds

IMO / IMDG - International

Technical name: SULFURIC ACID

UN number: UN1830

Transport hazard class(es): 8

Packing group, if applicable: II

EmS: F-A,S-B

15. Regulatory information

UNITED STATES

Dot label symbol and hazard classification



Corrosive

SARA Section 311/312 Hazard Categories

313 reportable ingredients: Sulfuric Acid

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Sulfuric Acid	~ 93	7664-93-9

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status: Section 302 (EHS) TPQ - 1000 lbs / Section 304 EHS RQ - 1000 lbs

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Sulfuric Acid	~ 93	1,000

CERCLA rq: 1000 lbs (as supplied)

EPA

EPA rq ingredient: Sulfuric Acid

EPA rq product: 1000 lbs (as supplied)

TSCA (The Toxic Substances Control Act)

Chemical name	CAS No.
Sulfuric Acid	7664-93-9

TSCA Status: All ingredients are included on the TSCA Inventory or are exempt

California Proposition 65: Contains a substances or substances known to the State of California to cause cancer

Carcinogen: Sulfuric Acid

16. Other information

Reason for issue: New Address

Approved by: H. Zeller

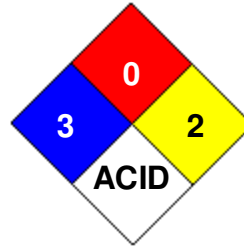
Prepared by: CSCC **Date revised:** 07/17/2024

Revision summary: This SDS replaces the 02/11/2022 SDS. Revised: **Section 1:** Reason for issue. **Section 2:** Classification of the substance or mixture, Label elements, Precautionary statement(s).

HMIS rating

Health	3
Flammability	0
Physical hazard	2
Personal protection	X

NFPA codes



General statements: Amounts given herein (other than for regulatory purposes) are typical and do not represent a specification. Unspecified or unlisted components are proprietary, do not present a hazard at levels present, are not hazardous, and/or are present at levels below reportable limits. Exact percentage values for all components are proprietary in accordance with 29 CFR 1910.1200(i)

Manufacturer disclaimer: To the best of our knowledge, the information contained herein is accurate. However, no liability whatsoever is assumed for its accuracy and/or completeness. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown health or physical hazards and should be used with caution. Certain hazards are described herein, but no guarantee is made that these are the only hazards associated with the material that exist.