

# **SAFETY DATA SHEET**

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

Product name Sulfuric Acid 25% Solution

CAS number 7664-93-9

Synonyms N/A

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

## 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

## 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

# GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Corrosive to MetalsCategory 1Skin CorrosionCategory 1ASerious Eye DamageCategory 1

## 2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Danger

Hazard statements May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Keep only in original container. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated

clothing and wash before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER/ doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/ doctor.

Spills: Absorb spillage to prevent material damage.

Storage: Store locked up. Store in corrosive-resistant container with a

resistant inner liner.

Disposal: Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

WARNING: Cancer.

# **SECTION 3: Composition/information on ingredients**

# 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Water	Aqua; H2O	7732-18-5	75%
Sulfuric acid	Hydrogen sulfate	7664-93-9	25%

## **SECTION 4: First aid measures**

# 4.1 Description of first-aid measures

## General advice

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**If inhaled** Remove to fresh air. Call a physician.

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/

shower. Call a physician immediately.

In case of eye contact Rinse out with plenty of water. Immediately call in ophthalmologist. Remove

contact lenses.

**If swallowed** Immediately make victim drink water (two glasses at most). Avoid vomiting

(risk of perforation). Call a physician immediately. Do not attempt to

neutralise.

# 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see Section 2.2) and/or in Section 11.

4.3 Indication of any immediate medical attention and special treatment needed

Show this material safety data sheet to the doctor in attendance and treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate

to local circumstances and the surrounding

environment.

**Unsuitable extinguishing media**For this substance/mixture, no limitations of

extinguishing agents are given.

## 5.2 Specific hazards arising from the substance or mixture

Not combustible. Ambient fire may liberate hazardous vapours.

Hazardous Combustion Products: Sulfur oxides.

## 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

Flash Point No information available.

**Autoignition Temperature**No information available.

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## **Explosion limits**

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
3	0	2	N/A

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

## 6.2 Environmental precautions

Should not be released into the environment. Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent and neutralising material. Dispose of properly. Clean up affected area.

#### 6.4 Reference to other sections

See Section 13 for disposal.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes, or clothing. Avoid ingestion and inhalation.

#### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

## Storage conditions

No metal containers. Keep containers tightly closed in a dry, cool, and well-ventilated place.

#### Incompatibilities

Metals. Strong oxidizing agents.

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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Occupational exposure limits

## **US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Component	Type	Value
Sulfuric acid	(Vacated) TWA	1 mg/m3
	TWA	1 mg/m3

#### **US. ACGIH Threshold Limit Values**

Component	Туре	Value
Sulfuric acid	TWA	0.2 mg/m3

#### **US. NIOSH: Pocket Guide to Chemical Hazards**

Component	Type	Value
Sulfuric acid	IDLH	15 mg/m3
	TWA	1 mg/m3

## **Biological occupational exposure limits**

No information available.

## 8.2 Exposure controls

#### Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

# Personal protective equipment

#### **Eye/face protection**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

## **Body Protection**

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

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## Control of environmental exposure

Do not let product enter drains.

## **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical State Liquid
Appearance Colorless
Odor Odorless

Odor Threshold

pH

ca.1 at 20 °C (68 °F)

Melting Point/Range

No information available

ca.1 at 20 °C (68 °F)

No data available

Boiling Point/Range No information available Evaporation Rate No information available

Flammability (solid) Not applicable
Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure

Vapor Density

No information available

No information available

No information available

1.15 g/cm3 at 20 °C (68 °F)

Solubility Soluble in water Partition coefficient; No data available

n-octanol/water

Autoignition Temp

Decomposition Temp

Viscosity

No information available

ca.338 °C (ca.640 °F)

No information available

Molecular Formula H2SO4
Molecular Weight 98.079 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

# 9.2 Other safety information

No information available.

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

Has a corrosive effect. Reacts with oxidizing agents.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

None under normal processing.

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## 10.4 Conditions to avoid

Incompatible products. Excess heat.

# 10.5 Incompatible materials

Metals. Strong oxidizing agents.

# 10.6 Hazardous decomposition products

Sulfur oxides.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

# **Product Information, Component Information**

**Acute toxicity** 

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sulfuric acid	2140 mg/kg (Rat)	-	0.375 mg/L/4h (Rat)

#### Skin corrosion/irritation

Mixture causes skin burns and irritation.

## Serious eye damage/eye irritation

Mixture causes serious eye damage.

# Respiratory or skin sensitization

No information available.

# Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Sulfuric acid	7664-93-9	Group 1	Not listed	A2	Χ	A2

## Specific target organ toxicity - single exposure

None known.

## Specific target organ toxicity - repeated exposure

None known.

## Reproductive toxicity

No information available.

#### **Chronic effects**

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After inhalation of aerosols: damage to the affected mucous membranes. After skin contact: severe burns with formation of scabs. After eye contact: burns, corneal lesions. After swallowing: severe pain (risk of perforation), nausea, vomiting, and diarrhoea. After a latency period of several weeks, possibly pyloric stenosis.

#### 11.2 Additional Information

The toxicological properties have not been fully investigated.

## **SECTION 12: Ecological information**

# 12.1 Toxicity

Product		Species	Test Results
Sulfuric acid	LC50	Brachydanio rerio	500 mg/L, 96h static
	EC50	Water Flea	29 mg/L, 24h

## 12.2 Persistence and degradability

Soluble in water. Persistence is unlikely based on information available.

## 12.3 Bio accumulative potential

No information available.

## 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

#### 12.5 Results of PBT and vPvB assessment

No information available.

# 12.6 Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

Forms corrosive mixtures with water even if diluted. Harmful effect due to pH shift. Endangers drinking-water supplies if allowed to enter soil or water. Discharge into the environment must be avoided.

## **SECTION 13: Disposal considerations**

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## **SECTION 14: Transport information**

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DOT (US)

UN-No UN2796
Proper Shipping Name Sulfuric acid

Hazard Class 8
Packing Group II

**IMDG** 

UN-No UN2796
Proper Shipping Name Sulfuric acid

Hazard Class 8
Packing Group II

**IATA** 

UN-No UN2796
Proper Shipping Name Sulfuric acid

Hazard Class 8
Packing Group II

## **SECTION 15: Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Listed, Sulfuric acid (CAS #7664-93-9), RQ: 1000 lb.

SARA 304 Emergency release notification

Listed, Sulfuric acid (CAS #7664-93-9), RQ: 1000 lb.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Listed, Sulfuric acid (CAS #7664-93-9), TPQ: 1000 lb.

SARA 311/312 Hazardous

See Section 2 for more information.

SARA 313 (TRI reporting)

Listed, Sulfuric acid (CAS #7664-93-9).

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.

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# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.

## Clean Water Act (CWA - Hazardous Substances)

Listed, Sulfuric acid (CAS #7664-93-9), RQ: 1000 lb.

# **FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

## **US** state regulations

#### **US. Massachusetts RTK - Substance List**

Listed, Sulfuric acid (CAS #7664-93-9).

## **US. New Jersey Worker and Community Right-to-Know Act**

Listed, Sulfuric acid (CAS #7664-93-9).

## US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Sulfuric acid (CAS #7664-93-9).

## **California Proposition 65**

Listed, Sulfuric acid (CAS #7664-93-9).

#### **SECTION 16: Other information**

Issue date: 10/21/2024

## **SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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