Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: April 07, 2021

1 Identification
· Product identifier
 Trade name: <u>Sulfuric Acid, pH 3 to 3.5</u> Product code: S25599C
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177
• Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification
Classification of the substance or mixture The product is not classified as hazardous according to the Globally Harmonized System (GHS).
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms: None.

· Signal word: None.

· Hazard statements: None.

· Precautionary statements: None.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

Unchinear		
· Compone	nts:	
	Sulfuric acid	0.77%
	Carc. 1A, H350 Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
	left Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	
7732-18-5	Water	99.23%
· Additional	information: For the wording of the listed Hazard Statements, refer to section 16.	

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4 First-aid measures Description of first aid measures · General information: No special measures required. • After inhalation: Supply fresh air; consult doctor in case of complaints. · After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor. · After eve contact: Remove contact lenses if worn, if possible. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. · After swallowing: Rinse out mouth and then drink plenty of water. Do not induce vomiting; immediately call for medical help. Most important symptoms and effects, both acute and delayed: Cramp Coughing Nausea in case of ingestion. Gastric or intestinal disorders when ingested. Slight irritant effect on skin and mucous membranes. Slight irritant effect on eyes. · Danger: No relevant information available. · Indication of any immediate medical attention and special treatment needed: No relevant information available.

5 Fire-fighting measures

[·] Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

• For safety reasons unsuitable extinguishing agents: None.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

[•] Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information: No relevant information available.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

- Environmental precautions Do not allow to enter sewers/ surface or ground water.
- [•] Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

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Pick up mechanically. Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. Clean the affected area carefully; suitable cleaners are: Warm water Send for recovery or disposal in suitable receptacles. **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling

Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires: No special measures required.

• Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from metals.

Store away from oxidizing agents.

Do not store together with alkalis (caustic solutions).

• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

Control parameters

• Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

7664-93-9 Sulf	furic acid	
PEL (USA)	Long-term value: 1 mg/m ³	
REL (USA)	Long-term value: 1 mg/m ³	
TLV (USA)	Long-term value: 0.2* mg/m³ *as thoracic fraction	
EL (Canada)	Long-term value: 0.2 mg/m³ ACGIH A2; IARC 1	
EV (Canada)	Long-term value: 0.2 mg/m³	
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LMPE (Mexico) Long-term value: 0).2* mg/m³
A2;*fracción toráci	са
[·] Exposure controls	
General protective and hygienic	measures:
	for handling chemicals should be followed.
Keep away from foodstuffs, beverage	
Immediately remove all soiled and	
Wash hands before breaks and at t	
Do not inhale gases / fumes / aeros	
Avoid contact with the eyes and ski • Engineering controls: Provide add	
· Breathing equipment:	
Not required under normal condition	ns of use
	device when aerosol or mist is formed.
· Protection of hands:	
đh	
Protective gloves	
g	
· Material of gloves	
	love material is not available. Testing will be required to determine
suitability of any potential glove mat	
· Eye protection:	
Safety glasses	
· Body protection: Protective work	clothing
• Body protection: Protective work of Limitation and supervision of	
Limitation and supervision of	clothing exposure into the environment
• Limitation and supervision of No relevant information available.	
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Not applicable.

· Flash point:

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· Flammability (solid, gaseous):	Not applicable.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
 Oxidizing properties: 	Non-oxidizing.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density:	Not determined.	
· Relative density:	Not determined.	
· Vapor density:	Not determined.	
· Evaporation rate:	Not determined.	
· Solubility in / Miscibility with		
Water:	Soluble.	
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
[•] Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability:

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Toxic fumes may be released if heated above the decomposition point. Reacts with certain metals.

Reacts with alkali (lyes).

· Conditions to avoid Store away from oxidizing agents.

[·] Incompatible materials

Metals.

Oxidizers

Alkalis

[•] Hazardous decomposition products

Under fire conditions only:

Sulfur oxides (SOx)

11 Toxicological information

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Inform	nation on toxicological effects
	toxicity: Based on available data, the classification criteria are not met.
	50 values that are relevant for classification: None.
Prima	y irritant effect:
	e skin: Slight irritant effect on skin and mucous membranes.
	e eye: Slight irritant effect on eyes.
	ization: No sensitizing effects known.
	International Agency for Research on Cancer):
None	of the ingredients are listed.
•	lational Toxicology Program):
7664-9	3-9 Sulfuric acid
OSHA	Ca (Occupational Safety & Health Administration):
None of	of the ingredients are listed.
Proba	ble route(s) of exposure:
Ingesti	
Inhalat	ion.
Eye co	
Skin co	
	effects (acute toxicity, irritation and corrosivity): No relevant information available.
	ted dose toxicity: No relevant information available.
	cell mutagenicity: Based on available data, the classification criteria are not met.
	ogenicity: Based on available data, the classification criteria are not met.
	ductive toxicity: Based on available data, the classification criteria are not met. single exposure: Based on available data, the classification criteria are not met.
	repeated exposure: Based on available data, the classification criteria are not met.
	tion hazard: Based on available data, the classification criteria are not met.
Ecolo	ogical information
Toxic	itv
	c toxicity No relevant information available.
	stence and degradability No relevant information available.

[•] Additional ecological information

- · General notes:
- Generally not hazardous for water.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

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Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

· Recommendation:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water only.

4 Transport information		
· UN-Number		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
[·] UN proper shipping name		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA		
· Class	Not regulated.	
[•] Packing group		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· Environmental hazards		
· Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex	II of	
MARPOL73/78 and the IBC Code	Not applicable.	

15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)

· SARA

• Section 302 (extremely hazardous substances):

None of the ingredients are listed.

• Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

· Proposition 65 (California)

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· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

• EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

7664-93-9 Sulfuric acid

· Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals – Category 1

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Carc. 1A: Carcinogenicity – Category 1A