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Safety Data Sheet acc. to OSHA HCS

Printing date 06/15/2021

Reviewed on 06/15/2021

Product identifier	
Trade name: <u>Sulfur 10,000 μg/mL in H2O</u>	
Article number: 10M54-5	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
High-Purity Standards	
7221 Investment Drive, North Charleston, SC 29418 United States	
Telephone: +1-843-767-7900	
Fax: +1-843-767-7906	
highpuritystandards.com	
Email: info@highpuritystandards.com	
Information department: Product safety department	
Emergency telephone number:	
INFOTRAC	
Emergency telephone numbers1-800-535-5053	
Other emergency telephone numbers 1-352-323-3500	

2 Hazard(s) identification

· Classification of the substance or mixture



Carc. 1A H350 May cause cancer.

· Label elements

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: sulphuric acid
Hazard statements H350 May cause cancer.
Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention. Store locked up.

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Trade name: Sulfur 10,000 µg/mL in H2O

Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system:

· NFPA ratings (scale 0 - 4)

 $\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \begin{array}{c} Health = 0 \\ Fire = 0 \\ Reactivity = 0 \end{array}$

· HMIS-ratings (scale 0 - 4)



- Other hazards
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:	
7664-93-9 sulphuric acid	1.0%
· Chemical identification of the substance/preparation	
7732-18-5 water, distilled, conductivity or of similar purity	99.0%

4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

· Extinguishing media

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

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- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Not required.

• Environmental precautions: Dilute with plenty of water.

- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 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.
- Protective Action Criteria for Chemicals

 · PAC-1:
 0.20 mg/m³

 7664-93-9
 sulphuric acid
 0.20 mg/m³

 · PAC-2:
 7664-93-9
 sulphuric acid
 8.7 mg/m³

 · PAC-3:
 7664-93-9
 160 mg/m³

7 Handling and storage

· Handling:

- *Precautions for safe handling* Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- *Specific end use(s) No further relevant information available.*

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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· Control parameters

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

7664-93-9 sulphuric acid

PEL Long-term value: 1 mg/m³

REL Long-term value: 1 mg/m³

TLV Long-term value: 0.2* mg/m³

*as thoracic fraction

• Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work. Store protective clothing separately.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation · *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

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Information on basic physical and c	hemical properties	
General Information		
· Appearance:		
Form:	Liquid	
Color:	colorless	
· Odor: · Odor threshold:	Characteristic	
	Not determined.	
· pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density at 20 °C (68 °F):	1.0084 g/cm ³ (8.4151 lbs/gal)	
Bulk density:	1,008 kg/m ³	
· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Water:	99.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	

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· Other information

No further relevant information available.

10 Stability and reactivity

· *Reactivity* No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7664-93-9 sulphuric acid

·NTP (National Toxicology Program)

7664-93-9 sulphuric acid

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- Additional ecological information:
- General notes: Not hazardous for water.

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

• Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• **Recommendation:** Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, ADR, IMDG, IATA	UN2796	
UN proper shipping name DOT ADR IMDG, IATA	Sulfuric acid 2796 SULPHURIC ACID SULPHURIC ACID	
Transport hazard class(es)		
Class	8 Corrosive substances	
Label	8	
ADR		
Class	8 (C1) Corrosive substances	

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Label	8	
IMDG, IATA		
8		
Class	8 Corrosive substances	
Label	8	
Packing group		
DOT	III	
ADR, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Corrosive substances	
Hazard identification number (Kemler code):		
EMS Number:	F-A,S-B	
Segregation groups	Strong acids	
Stowage Category	В	
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.	
	SG49 Stow "separated from" SGG6-cyanides	
Transport in bulk according to Annex II of		
MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR	a 1 m	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
IMDG		
Limited quantities (LQ)	1L	
Excepted quantities (EQ)	Code: E2	
	Maximum net quantity per inner packaging: 30 ml	
	Maximum net quantity per outer packaging: 500 ml	
UN "Model Regulation":	UN 2796 SULPHURIC ACID, 8, II	

15 Regulatory information

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

• Section 355 (extremely hazardous substances):

7664-93-9 sulphuric acid

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• Section 313 (Specific toxic chemical listings): 7664-93-9 sulphuric acid

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

• *Chemicals known to cause cancer:* None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

• TLV (Threshold Limit Value established by ACGIH)

7664-93-9 sulphuric acid

A2

·NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Danger

• Hazard-determining components of labeling: sulphuric acid • Hazard statements

H350 May cause cancer.

• **Precautionary statements** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. IF exposed or concerned: Get medical advice/attention.

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Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

- Department issuing SDS: Environment protection department.
- · Contact: High-Purity Standards Tel: 843-767-7900 Fax: 843-767-7906 · Date of preparation / last revision 06/15/2021 / -• Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Carc. 1A: Carcinogenicity - Category 1A

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