Printing date 06/10/2024

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Reviewed on 06/10/2024

I Identification Product identifier Product identifier Trade name: Sulfuric Acid 1.6 Normal NTST Traceable Solution Article number: C011040 Details of the supplier of the safety data sheet Manufacturer/Supplier: Aquas Solutions, Inc. 6913 Highway 225 DEER PARK, TX 7736 USA 800-256-2586 Information department: Technical Coordinator Sherman Netson sherman@aquaselutions.org Emergency telephone number: Chemre:: 800-242-9300 Canutec: 613-996-6666 Z Hazard(s) identification C Classification of the substance or mixture 2 Hazard(s) identification C Classification of the substance or mixture 2 Hazard(s) identification C Carcinogenicity 1A 11350 May cause cancer. 2 Hals Or AH319 Causes skin irritation. Eye Irritation 2 H315 Causes skin irritation. Eye Irritation 2 H319 Causes serious eye irritation. Eye Irritation 2 H319 Causes period tis classified and labeled according to the Globally Harmonized System (GHS) Hazard determining components of labeling: Suffuri A K3 90 - 95% Hazard determining components of labeling: Suffuri A K3 90 - 95% Chardes serious eye irritation. May cause cancer. Procuentionary statements Obtain special Instructions have been read and understood.	rinting date 06/10/2024	Reviewed on 06/10/20.
• Trade name: Sulfuric Acid 1.6 Normal NIST Traceable Solution • Article number: OLU00 • Details of the supplier of the safety data sheet • Manufacturer/Supplier: Agua Solutions, Inc. • Og13 Highway 223 DEER PARK, TX 77336 USA 800-255-2586 • Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org • Emergency telephone number: Chemtrec: 800-424-9300 Canuec: 613-996-6666 2 Hazard(s) identification • Classification of the substance or mixture \overbrace{O} GHS08 Health hazard Carcinogenicity 1A H350 May cause cancer. \overbrace{O} Skin Irritation 2 H315 Causes skin irritation. Eye Irritation 2A H319 Causes serious eye irritation. Eye Irritation 2A H319 Causes serious eye irritation. • Label elements GHS08 • Hazard pictograms \overbrace{O} GHS07 Signal word Danger • Hazard-determining components of labeling: Sulfuré Acid 96 - 98%. • Mazard statements Causes serious eye irritation. Causes serious eye irritation. Guasse serious eye irritation. • Mazard statements Causes skin irritation. Guasse serious eye irritation. • Mazard statements Causes skin irritation. Causes areitous eye irritation. Causes areitous eye irritation. Causes areitous eye irritation. Causes skin irritation. Causes areitous eye irritation. Causes skin irritation. Causes areitous eye irritation. May cause cancer. • Precautionary statements Obtain hyseical instructions before use.	1 Identification	
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(Contd. of page 1)
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 2
Fire = 0
2 0 Reactivity = 0
· HMIS-ratings (scale 0 - 4)
HEALTH ^{*2} $Health = *2$
FIRE 0 $Fire = 0$
REACTIVITY Reactivity = 0
• 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:
CAS: 7664-93-9 Sulfuric Acid 96 - 98% 7.978%

CAS: /664-93-9	Sulfuric Acid 96 - 98%	7.978%
• Table of Nonhaz	ardous Ingredients	
CAS: 7732-18-5	Water	92.022%

4 First-aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.

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• *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.
- · 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.

Do not allow to enter sewers/ surface or ground 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 section 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:

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· PAC-2:

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· PAC-3:

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

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.
- \cdot Specific end use(s) No further relevant information available.

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 $0.20 \ mg/m^3$

 $8.7 mg/m^3$

160 mg/m³

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8 Exposure controls/personal protection

(Contd. of page 3)

• Additional information about design of technical systems: No further data; see section 7. · Control parameters · Components with limit values that require monitoring at the workplace: CAS: 7664-93-9 Sulfuric Acid 96 - 98% 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, A2 • 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. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. · 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

· Body protection: Protective work clothing

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9 Physical and chemical proper	ties	
· Information on basic physical and c	hemical properties	
· General Information	nemeu propernes	
· Appearance:		
Form:	Liquid	
Color:	Clear water white	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
-		
· Change in condition Molting point(Molting range)	Undetermined.	
Melting point/Melting range:	100 °C (212 °F)	
Boiling point/Boiling range:		
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Ignition temperature:	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):	1.0378 g/cm ³ (8.66044 lbs/gal)	
· 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:	92.0 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gal	
Solids content:	0.0 %	
• 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.

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· 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: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· NTP (National Toxicology Program)

CAS: 7664-93-9 Sulfuric Acid 96 - 98%

· 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:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • 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.

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· Uncleaned packagings:

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

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

UN-Number	
DOT, IMDG, IATA	UN2796
UN proper shipping name	
DOT	Sulfuric acid solution
IMDG, IATA	SULFURIC ACID solution
Transport hazard class(es)	
DOT	
A Contraction of the second se	
CORROSIVE	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
8 Class Label	8 Corrosive substances 8
	8
Packing group	
DOT, 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	(SGG1a) Strong acids
Stowage Category	B
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:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 L
- •	On cargo aircraft only: 30 L

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	NIST Traceable Solution

	(Contd. of page 7)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN ''Model Regulation'':	UN 2796 SULFURIC ACID SOLUTION, 8, II

15 Regulatory information

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• Section 355 (extremely hazardous substances):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
· Section 313 (Specific toxic chemical listings):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVI
Sulfuric Acid 96 - 98%	ACTIVI
· 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)	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	

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(Contd. of page 8) · Hazard pictograms GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Sulfuric Acid 96 - 98% · Hazard statements Causes skin irritation. Causes serious eye irritation. May cause cancer. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. 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:

- Date of Preparation / Last Revision:
- Date of preparation / last revision

Revision 1.2, 06/10/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 06/10/2024 / 1.0 • Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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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	(Contd. of page 9)
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 Skin Irritation 2: Skin corrosion/irritation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A Carcinogenicity 1A: Carcinogenicity – Category 1A * Data compared to the previous version altered. 	
	US