# Safety Data Sheet acc. to OSHA HCS

Printing date 01/04/2018

Reviewed on 01/04/2018

· Product identifier	
· Trade name: Sulfuric Acid 93.20 +- 0.05% w/w	
Certified	
Article number: SPX296	
• Details of the supplier of the safety data sheet • Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA 256 2586	
800-256-2586	
Information department:	
Technical Coordinator Sherman Nelson sherman@aquasolutions.org	
• Emergency telephone number:	
Chemtrec: 800-424-9300	
Canutec: 613-996-6666	
P Hazard(s) identification	
· Classification of the substance or mixture	
GHS08 Health hazard	
Carc. 1A H350 May cause cancer.	
<b>^</b>	
GHS05 Corrosion	
$\mathbf{V}$	
Skin Corr 11 H314 Causes sovere skin hurns and eve damage	
Skin Corr. 1A H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage.	
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<ul> <li>Wash thoroughly after handling.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If swallowed: Rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Continue rinsing.</li> <li>IF exposed or concerned: Get medical advice/attention.</li> <li>Immediately call a poison center/doctor.</li> <li>Specific treatment (see on this label).</li> </ul>	ontd. of page 1
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Wash contaminated clothing before reuse. Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulations.	
· · ·	
Classification system: NFPA ratings (scale 0 - 4)	
NTTA Tuungs (scule 0 - 4)	
Health = 3	
Fire = $0$	
3 U Reactivity = 0	
3  0  Reactivity = 0	
Beactivity = 0 HMIS-ratings (scale 0 - 4)	
HMIS-ratings (scale 0 - 4)	
HMIS-ratings (scale 0 - 4) HEALTH I Health = *3	
HMIS-ratings (scale 0 - 4)HEALTH*3FIRE $\bigcirc$ Fire = 0	
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HMIS-ratings (scale $0 - 4$ )HEALTHImage: Health = *3FIREImage: Fire = 0REACTIVITYImage: Reactivity = 0	
HMIS-ratings (scale 0 - 4) HEALTH I Health = *3 FIRE I Fire = 0 REACTIVITY I Reactivity = 0 Other hazards	
HMIS-ratings (scale 0 - 4) HEALTH 3 FIRE 0 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment	
HMIS-ratings (scale 0 - 4) HEALTH I Health = *3 FIRE I Fire = 0 REACTIVITY I Reactivity = 0 Other hazards	
HMIS-ratings (scale 0 - 4)	

· Dangerous components:

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

• Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

#### 4 First-aid measures

· Description of 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. Then consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

• Information for doctor:

• Most important symptoms and effects, both acute and delayed No further relevant information available.

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93.2%

6.8%

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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	
Wear protective equipment. Keep unprotected persons away.	
· 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).	
Use neutralizing agent.	
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:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	$0.20 \ mg/m^3$
· PAC-2:	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	8.7 $mg/m^3$

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

 $160 \, mg/m^3$ 

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8 Exposure controls/personal protection

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# · Additional information about design of technical systems: No further data; see item 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/m<sup>3</sup> REL Long-term value: 1 mg/m<sup>3</sup> TLV Long-term value: 0.2\* mg/m<sup>3</sup> \*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. 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. 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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Physical and chemical proper	rties	
Information on basic physical and	chemical properties	
General Information		
Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	$100 \ ^{\circ}C \ (212 \ ^{\circ}F)$	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:		
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:	Not determined.	
Density at 20 °C (68 °F):	1.78288 g/cm³ (14.87813 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/wat	-	
Viscosity:		
Dynamic:	Not determined	
Kinematic:	Not determined. Not determined.	
киетинс:		
Solvent content:		
Water:	6.8 %	
VOC content:	0.00~%	
	0.0 g/l / 0.00 lb/gl	
Solids content:	0.0 %	
Other information	<i>No further relevant information available.</i>	

# **10 Stability and reactivity**

• *Reactivity* No further relevant information available.

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· 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: Strong caustic effect on skin and mucous membranes.
- on the eye:
- Strong caustic effect.
- Strong irritant with the danger of severe eye injury.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations: Corrosive
- Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	1	
· NTP (National Toxicology Program)		
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	K	
· 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. Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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

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• 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, IMDG, IATA	UN1760
UN proper shipping name DOT IMDG, IATA	Corrosive liquids, n.o.s. (Sulfuric acid) CORROSIVE LIQUID, N.O.S. (SULPHURIC ACID)
Transport hazard class(es)	
DOT	
CORROSIVE 8	
Class	8 Corrosive substances
Label	8
8	
Class	8 Corrosive substances
Label	8
Packing group DOT, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	88
EMS Number:	F-A,S-B
Segregation groups	Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.

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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
· IMDG	
$\cdot$ 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 1760 CORROSIVE LIQUIDS, N.O.S. (SULFURIC 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):	
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):	
Sulfuric Acid 96 - 98%	
Water	
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)	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	Α
NIOSH-Ca (National Institute for Occupational Safety and Health)	· · ·
None of the ingredients is listed.	

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Trade name: Sulfuric Acid 93.20 +- 0.05% w/w Certified		% w/w
· Hazard p	ictograms	
GHS05	GHS08	

· Signal word Danger

- *Hazard-determining components of labeling:* Sulfuric Acid 96 - 98%
- · Hazard statements
- Causes severe skin burns and eye damage.
- May cause cancer.
- **Precautionary statements** Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dusts or mists.
- Wash thoroughly after handling.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Rinse mouth. Do NOT induce vomiting.
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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. Immediately call a poison center/doctor. Specific treatment (see on this label).*
- Wash contaminated clothing before reuse.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · National regulations:

- Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).
- · 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 01-04-2018: review SDS for accuracy. STN Creation date for SDS 03-06-2014. STN 01/04/2018 / -
- 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

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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 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Carc. 1A: Carcinogenicity - Category 1A