Safety Data Sheet acc. to OSHA HCS

Printing date 01/04/2018

Reviewed on 01/04/2018

| Identification | |
|---|-------------------------------------|
| · Product identifier | |
| · Trade name: Sulfuric Acid 98.3 +-0.05% w/w | |
| Solution | |
| Article number: SPX297 | |
| Details of the supplier of the safety data sheet | |
| Manufacturer/Supplier: | |
| Aqua Solutions, Inc. | |
| 6913 Highway 225 | SOLUTIONS |
| DEER PARK, TX 77536 | |
| USA 800-256-2586 | |
| | |
| • Information department: Technical Coordinator | |
| Sherman Nelson sherman@aquasolutions.org | |
| Emergency telephone number: | |
| Chemtrec: 800-424-9300 | |
| Canutec: 613-996-6666 | |
| | |
| Hazard(s) identification | |
| | |
| Classification of the substance or mixture | |
| | |
| GHS08 Health hazard | |
| | |
| | |
| Carc. 1A H350 May cause cancer. | |
| | |
| | |
| Carc. 1A H350 May cause cancer. | |
| Carc. 1A H350 May cause cancer. | |
| Carc. 1A H350 May cause cancer. GHS05 Corrosion Skin Corr. 1A H314 Causes severe skin burns and eye damage. | |
| Carc. 1A H350 May cause cancer. GHS05 Corrosion Skin Corr. 1A H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. | |
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Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

| (Contd. of | f page 1) |
|---|-----------|
| Wash thoroughly after handling. | page 1) |
| 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. | |
| · Classification system: | |
| ·NFPA ratings (scale 0 - 4) | |
| $\begin{array}{c} 0 \\ 3 \\ 0 \\ 0 \end{array} \begin{array}{c} Health = 3 \\ Fire = 0 \\ Reactivity = 0 \end{array}$ | |
| · HMIS-ratings (scale 0 - 4) | |
| HEALTH 3 Health = *3 | |
| FIRE 0 $Fire = 0$ | |
| REACTIVITY 0 <i>Reactivity</i> = 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%

• 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.

(Contd. on page 3)

98.3%

1.7%

- US

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

• *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: | |
|--|------------------------|
| 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.

(Contd. on page 4)

1 I S

 $160 \, mg/m^3$

(Contd. of page 2)

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

(Contd. of page 3)

8 Exposure controls/personal protection · 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/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. 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: Safety glasses Tightly sealed goggles · **Body protection:** Protective work clothing

(Contd. on page 5)

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

(Contd. of page 4)

| Physical and chemical proper | nes | |
|---|---|--|
| · Information on basic physical and c | 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: | $>34 \ ^{\circ}C \ (>93.2 \ ^{\circ}F)$ | |
| · 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 at 20 °C (68 °F): | <0.01 hPa (>0 mm Hg) | |
| · Density at 20 °C (68 °F): | 1.82572 g/cm ³ (15.23563 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 | er): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Water: | 1.7 % | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gl | |
| Solids content: | 0.0 % | |
| • Other information | No further relevant information available. | |

10 Stability and reactivity

• *Reactivity* No further relevant information available.

(Contd. on page 6)

US

Printing date 01/04/2018

Reviewed on 01/04/2018

(Contd. of page 5)

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

· 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.

(Contd. on page 7)

US

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

(Contd. of page 6)

• 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 |
| | |
| Class | 8 Corrosive substances |
| Label | 8 |
| Packing group DOT, IMDG, IATA | 11 |
| | |
| 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 eurogery | |

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

| | (Contd. of page |
|--|--|
| • Transport in bulk according to Annex MARPOL73/78 and the IBC Code | II of 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 |
| \cdot 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

| Suru | |
|--|---|
| 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% | A |
| NIOSH-Ca (National Institute for Occupational Safety and Health) | I |
| None of the ingredients is listed. | |

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). (Contd. on page 9) US

Printing date 01/04/2018

Reviewed on 01/04/2018

| rade name: Sulfuric Acid 98.3 +-0.05% w/w Solution | |
|--|-----------------------------------|
| | (Contd. of pag |
| · Hazard pictograms | |
| $\wedge \wedge$ | |
| | |
| GHS05 GHS08 | |
| · Signal word Danger | |
| - | |
| • <i>Hazard-determining components of labeling:</i> 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 w | vith 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 |
| 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 | ational negulations |
| Dispose of contents/container in accordance with local/regional/national/interna | anonai 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 materia | als contained in this preparation |
| Exceptions can be made by the authorities in certain cases. | * * |
| · Chemical safety assessment: A Chemical Safety Assessment has not been carrie | ed out. |

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

(Contd. on page 10)

⁻ US

Printing date 01/04/2018

Reviewed on 01/04/2018

Trade name: Sulfuric Acid 98.3 +-0.05% w/w Solution

(Contd. of page 9)

US

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