US

Safety Data Sheet acc. to OSHA HCS

Printing date 06/06/2024

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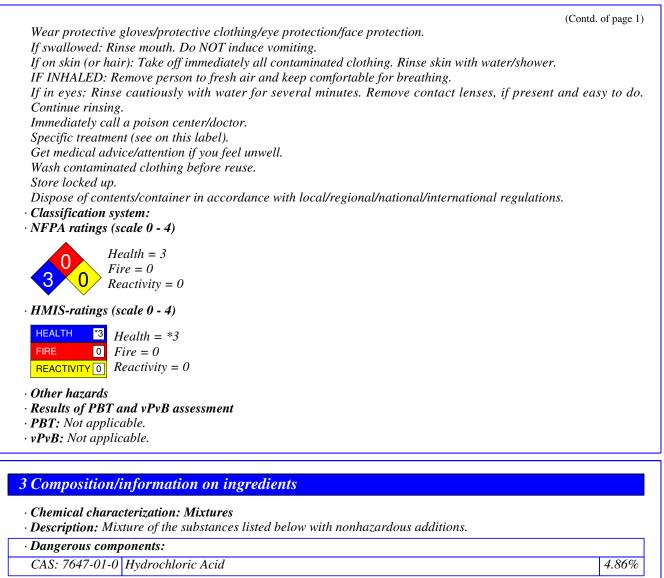
Reviewed on 06/06/2024

| I Identification • Product identifier • Trade name: Sodium Oxalate 0.042% w/v in 0.5 Molar HCI • Article number: SH079 • Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aquas Solutions, Inc. • 0913 Highway 225 DEER PARK, TX 77336 USA 800-255.66 • Information department: Technical Coordinator Sherman N-Kons othermann@aquasolutions.org • Emergency telephone number: Chemtre: 800-240-3000 Canutec: 613-996-6666 2 Hazard(s) identification • Classification of the substance or mixture • Origon of the substance or second Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. • Listel elements • GHStobe Lements • GHStobe Lements • GHStobe Lements • GHStobe Lements | rinting date 06/06/2024 | Reviewed on 06/06/2024 |
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| · Table of Nonhazardous Ingr | edients |
|------------------------------|---------|
|------------------------------|---------|

CAS: 7732-18-5 Water

CAS: 62-76-0

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

Sodium Oxalate

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• 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.

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95.099%

0.042%

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- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- \cdot 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 During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

| | tions, protective equipment and emergency procedures y protective device. | |
|---------------------|---|-------------------------|
| 1 | equipment. Keep unprotected persons away. | |
| · Environmental p | | |
| Dilute with plent | | |
| | enter sewers/ surface or ground water. | |
| | terial for containment and cleaning up: | |
| | id-binding material (sand, diatomite, acid binders, universal binders, sawdust). | |
| Use neutralizing | | |
| | nated material as waste according to section 13. | |
| Ensure adequate | | |
| · Reference to oth | | |
| | information on safe handling. | |
| | information on personal protection equipment. | |
| See Section 13 fo | r disposal information. | |
| · Protective Action | n Criteria for Chemicals | |
| · PAC-1: | | |
| CAS: 7647-01-0 | Hydrochloric Acid | 1.8 ppm |
| CAS: 62-76-0 | Sodium Oxalate | 11 mg/m ³ |
| · PAC-2: | | |
| CAS: 7647-01-0 | Hydrochloric Acid | 22 ppm |
| CAS: 62-76-0 | Sodium Oxalate | 120 mg/m ³ |
| · PAC-3: | | |
| CAS: 7647-01-0 | Hydrochloric Acid | 100 ppm |
| CAS: 62-76-0 | Sodium Oxalate 2 | 2,200 mg/m ³ |
| | | |

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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• 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 section 7.
- · Control parameters

| · Components with limit values that require monitoring at the workplace: | |
|--|--|
| CAS: 7647-01-0 Hydrochloric Acid | |
| | Ceiling limit value: 7.0 mg/m3 mg/m ³ |
| PEL | Ceiling limit value: 7 mg/m³, 5 ppm |
| | Ceiling limit value: 7 mg/m³, 5 ppm |
| TLV | Ceiling limit value: 2 ppm |
| | A4 |

• 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 \cdot **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.

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• Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

| Information on basic physical and c | hemical properties | |
|---------------------------------------|---|--|
| General Information | | |
| Appearance: | x · · · 1 | |
| Form: Color: | Liquid Colorless | |
| Odor: | Odorless | |
| Odor threshold: | Not determined. | |
| pH-value at 20 °C (68 °F): | <2 | |
| Change in condition | | |
| Melting point/Melting range: | 0 °C (32 °F) | |
| Boiling point/Boiling range: | 100 °C (212 °F) | |
| 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): | 1.00939 g/cm³ (8.42336 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: | 95.1 % | |
| VOC content: | 0.00 % | |
| | 0.0 g/l / 0.00 lb/gal | |

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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.
- · 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)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· 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.

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\cdot 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.

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

- · 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, IMDG, IATA | UN1789 | |
| · UN proper shipping name | | |
| · DOT | Hydrochloric acid solution | |
| · IMDG, IATA | HYDROCHLORIC ACID solution | |
| · Transport hazard class(es) | | |
| DOT | | |
| CORROSIVE 8 | | |
| · Class | 8 Corrosive substances | |
| · Label | 8 | |
| · IMDG, IATA | | |
| e e | | |
| · Class | 8 Corrosive substances | |
| · Label | 8 | |
| · Packing group | | |

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· Environmental hazards:

· Special precautions for user

Not applicable.

Warning: Corrosive substances

• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· UN "Model Regulation":

UN 1789 HYDROCHLORIC ACID SOLUTION, 8, III

15 Regulatory information

| · Section 355 (extremely hazardous substances): | |
|--|--------|
| None of the ingredients is listed. | |
| · Section 313 (Specific toxic chemical listings): | |
| None of the ingredients is listed. | |
| · TSCA (Toxic Substances Control Act): | |
| Water | ACTIVI |
| Hydrochloric Acid | ACTIVI |
| Sodium Oxalate | ACTIVI |
| · Hazardous Air Pollutants | |
| CAS: 7647-01-0 Hydrochloric Acid | |
| · 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) | |
| None of the ingredients is listed. | |
| | |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | |

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|--|----------------------|
| Hazard pictograms | |
| \wedge \wedge | |
| | |
| | |
| | |
| GHS05 GHS08 | |
| Signal word Danger | |
| Hazard-determining components of labeling: | |
| Hydrochloric Acid | |
| Hazard statements | |
| Causes severe skin burns and eye damage. | |
| May cause damage to organs through prolonged or repeated exposure. | |
| Precautionary statements | |
| 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/st | hower. |
| 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 p | resent and easy to a |
| Continue rinsing. | |
| Immediately call a poison center/doctor. | |
| Specific treatment (see on this label). | |
| Get medical advice/attention if you feel unwell. | |
| Wash contaminated clothing before reuse. | |
| Store locked up. | |
| Dispose of contents/container in accordance with local/regional/national/international regu | ulations. |
| Chemical safety assessment: A Chemical Safety Assessment has not been carried 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: · Date of preparation / last revision Revision 1.2, 06/05/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 10-19-2020: Creation date for SDS. STN 06/06/2024 · 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 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

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corrosion 1A: Skin corrosion/irritation – Category 1A Eye Damage 1: Serious eye damage/eye irritation – Category 1 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2 • * Data compared to the previous version altered.