Printing date 05/16/2024

Reviewed on 05/16/2024

1 Identification

- · Product identifier
- Trade name: Zinc Standard 0.8 ppm in 2% v/v Sulfuric Acid
- · Article number: LY159
- Details of the supplier of the safety data sheet • Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225
- DEER PARK, TX 77536 USA 800-256-2586
- Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org
- Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666

2 Hazard(s) identification





GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.



Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

· 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:* Sulfuric Acid 96 - 98%
- Hazard statements Causes severe skin burns and eye damage. May cause cancer.
- **Precautionary statements** Obtain special instructions before use.

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	(Contd. of page 1)
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.	2
Immediately call a poison center/doctor.	
IF exposed or concerned: Get medical advice/attention.	
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 regulation.	s.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
$\frac{3}{0} Reactivity = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH ^{*3} Health = $*3$	
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%	3.619%
· Table of Nonhazardous Ingredients	

CAS: 7732-18-5 Water

CAS: 7440-66-6 Zinc Metal

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.

(Contd. on page 3)

96.381%

0.0001%

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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.		
	equipment. Keep unprotected persons away.		
• Environmental p	recautions:		
Dilute with plent	y of water.		
Do not allow to e	nter sewers/ surface or ground water.		
• Methods and ma	terial for containment and cleaning up:		
	d-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 for disposal information.		
· Protective Action Criteria for Chemicals			
• PAC-1:			
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$0.20 \ mg/m^3$	
CAS: 7440-66-6	Zinc Metal	6 mg/m ³	
· PAC-2:			
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	$8.7 mg/m^{3}$	
CAS: 7440-66-6	Zinc Metal	21 mg/m ³	
· PAC-3:			
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 mg/m ³	
CAS: 7440-66-6	Zinc Metal	120 mg/m ³	

7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

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(Contd. of page 3)

Prevent formation of aerosols.

· 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: 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. 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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Safety Data Sheet acc. to OSHA HCS

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· Eye protection:

Tightly sealed goggles

· Body protection: Protective work clothing

Odor threshold:Not determined.pH-value at 20 °C (68 °F):<2Change in condition Melting point/Melting range:0 °C (32 °F) 100 °C (212 °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: Upper:Not determined.Vapor pressure at 20 °C (68 °F):23 hPa (17.3 mm Hg)Density at 20 °C (68 °F):1.0168 g/cm³ (8.4852 lbs/gal)Relative density Vapor densityNot determined.Vapor density Evaporation rateNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water): Not determined.Fully miscible.	
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Water: Fully miscible. Partition coefficient (n-octanol/water): Not determined.	
Partition coefficient (n-octanol/water): Not determined.	
Viscosity:	
Dynamic: Not determined.	
Kinematic: Not determined.	
Solvent content:	
Water: 96.4 %	
<i>VOC content:</i> 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.
- \cdot 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%

· 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.

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US –

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• ,	Additional	ecological	information:
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· 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	UN3264
· UN proper shipping name · DOT · IMDG, IATA	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfuri Acid)
· Transport hazard class(es)	
DOT	
CORROSIVE 8	
· Class	8 Corrosive substances
· Label	8
· IMDG, IATA	
· Class	8 Corrosive substances
· Label	8

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	(Contd. of page
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code): 80
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	A
Stowage Code	SW2 Clear of living quarters.
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: 5 L
~ ~	On cargo aircraft only: 60 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O., (SULFURIC ACID), 8, III

15 Regulatory information

· Safety,	health and	l environmental	regulations/legislatio	n specific for t	the substance	or mixture
· 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%	
CAS: 7440-66-6 Zinc Metal	
· TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Sulfuric Acid 96 - 98%	ACTIVE
Zinc Metal	ACTIVE
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
None of the ingredients is listed.	
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D, I, II

A2

Trade name: Zinc Standard 0.8 ppm in 2% v/v Sulfuric Acid

· 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)

CAS: 7440-66-6 Zinc Metal

• TLV (Threshold Limit Value)

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

· 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: 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. Immediately call a poison center/doctor. IF exposed or concerned: Get medical advice/attention. 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).

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Trade name: Zinc Standard 0.8 ppm in 2% v/v Sulfuric Acid

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· 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, 05/16/2024: Reviewed SDS for accuracy. MH/STN 05/16/2024 · 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 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 Carcinogenicity 1A: Carcinogenicity - Category 1A \cdot * Data compared to the previous version altered.