Printing date 07/03/2024

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Reviewed on 07/03/2024

nting date 07/03/2024	
Identification	
Product identifier	
Trade name: <u>Phosphoric Acid 1:1 -</u> <u>Sulfuric Acid 1:2 Mixed Ac</u>	
Article number: OXY537	
Details of the supplier of the safety data s Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	sheet AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutior Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	ns.org
Hazard(s) identification	
GHS08 Health hazard Carcinogenicity 1A	H350 May cause cancer.
GHS05 Corrosion	
Skin Corrosion 1A Eye Damage 1	H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
GHS07	
Acute Toxicity - Oral 4 Specific Target Organ Toxicity - Single E.	H302 Harmful if swallowed. Exposure 3 H335 May cause respiratory irritation.
Label elements GHS label elements The product is classi Hazard pictograms	ified and labeled according to the Globally Harmonized System (GH
GHS05 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of laber Phosphoric Acid 85%	ling:
1 nosphoric field 05 /0	

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

Do not breathe dusts or n Wash thoroughly after ha Do not eat, drink or smok Use only outdoors or in a Wear protective gloves/pu If swallowed: Call a poiss If swallowed: Rinse mout If on skin (or hair): Take IF INHALED: Remove po If in eyes: Rinse caution Continue rinsing. Immediately call a poison	ritation. is ins before use. ifety precautions have been read and understood. nists. indling. ke when using this product. i well-ventilated area. rotective clothing/eye protection/face protection. on center/doctor if you feel unwell. th. Do NOT induce vomiting. off immediately all contaminated clothing. Rinse skin with water/shower. erson to fresh air and keep comfortable for breathing. usly with water for several minutes. Remove contact lenses, if present and easy to de
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Immediately call a poison IF exposed or concerned. Specific treatment (see or	n center/doctor.
IF exposed or concerned. Specific treatment (see or	n center/doctor.
Specific treatment (see or	
	: Get medical advice/attention.
Wash contaminated cloth	n this label).
	uing before reuse.
Store in a well-ventilated	place. Keep container tightly closed.
Store locked up.	
Dispose of contents/conte	ainer in accordance with local/regional/national/international regulations.
Classification system:	
NFPA ratings (scale 0 - 4	4)
• • • • • •	
Health = 3	í
Fire = 0	
3 0 <i>Reactivity</i>	= 0
HMIS-ratings (scale 0 -	4)
	٣.
FIRE 0 $Fire = 0$	
REACTIVITY 0 Reactivity	v = 0
Other hazards	
Results of PBT and vPvB	B assessment
PBT: Not applicable.	
vPvB: Not applicable.	

Chemical characterization: Mixtures
 Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 7664-38-2 Phosphoric Acid 85%	32.126%	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	23.385%	
(Contd. on page 3)		

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

(Contd. of page 2)

44.489%

· 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.

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:

Immediately call a doctor.

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.
- · 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

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 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 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.

(Contd. on page 4)

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

· Protective Action	Criteria for Chemicals	(Contd. of page 3)
· PAC-1:	-	
CAS: 7664-38-2	Phosphoric Acid 85%	3 mg/m ³
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	0.20 mg/m ³
· PAC-2:		
CAS: 7664-38-2	Phosphoric Acid 85%	30 mg/m ³
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	8.7 mg/m ³
· PAC-3:		
CAS: 7664-38-2	Phosphoric Acid 85%	150 mg/m ³
CAS: 7664-93-9	Sulfuric Acid 96 - 98%	160 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.

- 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

· Com	ponents with limit values that require monitoring at the workplace:	
CAS:	: 7664-38-2 Phosphoric Acid 85%	
PEL	Long-term value: 1 mg/m ³	
REL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
TLV	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³	
CAS.	: 7664-93-9 Sulfuric Acid 96 - 98%	
PEL	Long-term value: 1 mg/m ³	
REL	Long-term value: 1 mg/m ³	
TLV	Long-term value: 0.2* mg/m³ *as thoracic fraction, A2	
· Addi	tional information: The lists that were valid during the creation were used as basis.	(Contd. on page 5)

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· Exposure controls

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

· Personal protective equipment:

(Contd. of page 4)

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

Information on basic physical and a General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear water white	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

	(Contd. of	page 5
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):	1.31907 g/cm³ (11.00764 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:	44.5 %	
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.

· 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.

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Trade name: Phosphoric Acid 1:1 -

Sulfuric Acid 1:2 Mixed Acid

(Contd. of page 6)

•	ation on toxicological effects	
• Acute t		
	50 values that are relevant for classification:	
	cute Toxicity Estimate)	
Oral L	D50 1,556 mg/kg	
	y irritant effect:	
	skin: Strong caustic effect on skin and mucous membranes.	
on the		
0	caustic effect.	
0	irritant with the danger of severe eye injury.	
	ation: No sensitizing effects known.	
	nal toxicological information:	
The pro Harmfi	duct shows the following dangers according to internally approved calculation methods for preparati	or
Corros		
Irritan		
1	ving will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esopl	ıa
· Carcin	ogenic categories	
IARC (International Agency for Research on Cancer)	
CAS: 7	664-93-9 Sulfuric Acid 96 - 98%	_
NTP (I	Vational Toxicology Program)	-
CAS: 7	664-93-9 Sulfuric Acid 96 - 98%	
ОСПУ	Ca (Occupational Safety & Health Administration)	-

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.
- · Other adverse effects No further relevant information available.

(Contd. on page 8)

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

(Contd. of page 7)

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
	0//5207
· UN proper shipping name · DOT	Composive liquid acidia increania nos (Sulfurio Aci
	Corrosive liquid, acidic, inorganic, n.o.s. (Sulfuric Acia Phosphoric Acid 85%)
· IMDG, IATA	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Sulfur
	Acid, Phosphoric Acid 85%)
Transport hazard class(es)	
DOT	
CORROSIVE	
8	
· Class	8 Corrosive substances
Label	8
- Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler c	
EMS Number:	F- A , S - B
Segregation groups	(SGG1) Acids
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Segregation Code	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

	(Contd. of page 8
• 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	
· Limited quantities (LQ)	1L
· Excepted quantities $(\widetilde{E}Q)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S (SULFURIC ACID, PHOSPHORIC ACID 85%), 8, II

15 Regulatory information

\cdot Safety, health and environmental regulations/legislation specific for the substance or mixture

• Sara	
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· Section 355 (extremely hazardous substances):	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
Section 313 (Specific toxic chemical listings):	
CAS: 7664-38-2 Phosphoric Acid 85%	
CAS: 7664-93-9 Sulfuric Acid 96 - 98%	
• TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Phosphoric Acid 85%	ACTIVE
Sulfuric Acid 96 - 98%	ACTIVE
· 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)	
• EPA (Environmental Protection Agency) None of the ingredients is listed.	

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

(Contd. of page 9)

A2

TLV (Threshold Limit Value))
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CAS: 7664-93-9 Sulfuric Acid 96 - 98%

\cdot 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: Phosphoric Acid 85% Sulfuric Acid 96 - 98% · Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. May cause cancer. May cause respiratory irritation. · 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. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. 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 in a well-ventilated place. Keep container tightly closed. 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.

(Contd. on page 11)

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Trade name: Phosphoric Acid 1:1 -Sulfuric Acid 1:2 Mixed Acid

(Contd. of page 10)

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 07/03/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 05-29-2024: Creation date for SDS. STN 07/03/2024 / 1.1 · 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Acute Toxicity - Oral 4: Acute toxicity - Category 4 Skin Corrosion 1A: Skin corrosion/irritation - Category 1A Eye Damage 1: Serious eye damage/eye irritation - Category 1 Carcinogenicity 1A: Carcinogenicity - Category 1A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

• * Data compared to the previous version altered.

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