Printing date 06/12/2024

Reviewed on 06/12/2024

#### **1** Identification

- · Product identifier
- Trade name: <u>Reagent 1</u> 10% Phosphoric Acid
- Article number: OLI125
- 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 • Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

## 2 Hazard(s) identification

· Classification of the substance or mixture



Skin Corrosion 1B 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:
- Phosphoric Acid 85%
- · Hazard statements
- Causes severe skin burns and eye damage.
- · 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/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.

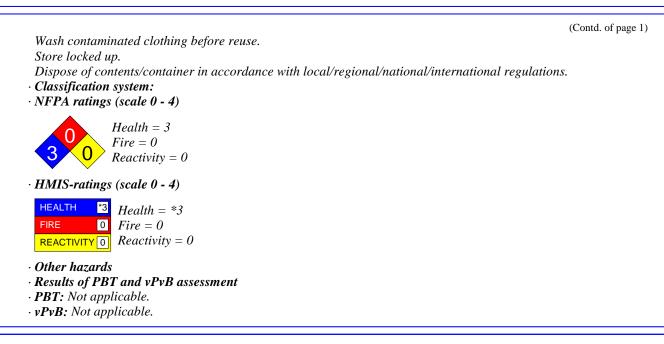
Specific treatment (see on this label).

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#### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 7664-38-2 Phosphoric Acid 85%

• Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

#### **4** 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.
- · 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.

(Contd. on page 3)

18.338%

81.662%

<sup>·</sup> Description of first aid measures

<sup>-</sup> US

(Contd. of page 2)

## Safety Data Sheet acc. to OSHA HCS

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· 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 7664-38-2 Phosphoric Acid 85%	$3 mg/m^3$
· PAC-2:	
CAS: 7664-38-2 Phosphoric Acid 85%	30 mg/m <sup>3</sup>
· PAC-3:	
CAS: 7664-38-2 Phosphoric Acid 85%	150 mg/m <sup>3</sup>

#### 7 Handling and storage

· Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. 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.

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	(Contd. of page 3)
· Conti	ol parameters
· Comp	ponents with limit values that require monitoring at the workplace:
CAS:	7664-38-2 Phosphoric Acid 85%
PEL	Long-term value: 1 mg/m <sup>3</sup>
REL	Short-term value: 3 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>
	Short-term value: 3 mg/m <sup>3</sup>
	Long-term value: 1 mg/m <sup>3</sup>
• Addit	ional information: The lists that were valid during the creation were used as basis.
· Expo	sure controls
	nal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	diately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work. I contact with the eyes.
	contact with the eyes.
	hing equipment:
	se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
respi	ratory protective device that is independent of circulating air.
· Prote	ction of hands:
	Protective gloves
Due t	love material has to be impermeable and resistant to the product/ the substance/ the preparation. o missing tests no recommendation to the glove material can be given for the product/ the preparation/ the ical mixture.
Selec	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation rial of gloves
varie	election of the suitable gloves does not only depend on the material, but also on further marks of quality and s from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of ove material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
	xact break through time has to be found out by the manufacturer of the protective gloves and has to be
obser En or	
· Eye p	rotection:
	Tightly sealed goggles
· Bodv	protection: Protective work clothing
2049	

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Trade name: Reagent 1 10% Phosphoric Acid

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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):1.12562 g/cm³ (9.3933 lbs/gal)Relative densityNot determined.Vapor densityNot determined.Evaporation rateNot determined.Solubility in / Miscibility with Water:Fully miscible.Partition coefficient (n-octanol/water):Not determined.Viscosity: Dynamic: Kinematic:Not determined.Solvent content: Water:81.7 % 0.00 % 0.0 g/ / 0.00 lb/galSolids content:18.3 %	Physical and chemical proper	ties
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0.0 g/l / 0.00 lb/gal           Solids content:         18.3 %		
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<b>Other information</b> No further relevant information available.	Solids content:	
	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.

(Contd. on page 6)

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Printing date 06/12/2024

Reviewed on 06/12/2024

Trade name: Reagent 1

10% Phosphoric Acid

(Contd. of page 5)

- · 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:

#### · LD/LC50 values that are relevant for classification:

- ATE (Acute Toxicity Estimate)
- Oral LD50 2,727 mg/kg
- · Primary irritant effect:
- on the skin: 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.
- · 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.

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#### · 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	UN1805
UN proper shipping name	
DOT	Phosphoric acid solution
IMDG, IATA	PHOSPHORIC ACID, SOLUTION
Transport hazard class(es)	
DOT	
air and	
CORROSIVE	
V	
Class	8 Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
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

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· Segregation Code	SG36 Stow "separated from" SGG18-alkalis.
	SG49 Stow "separated from" SGG6-cyanides
• 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 1805 PHOSPHORIC ACID, SOLUTION, 8, III

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available. • Sara

· Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
CAS: 7664-38-2 Phosphoric Acid 85%	
· TSCA (Toxic Substances Control Act):	
Water	ACTIV
Phosphoric Acid 85%	ACTIV
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)	
None of the ingredients is listed.	
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#### · TLV (Threshold Limit Value)

None of the ingredients is listed.

#### · 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%
Hazard statements Causes severe skin burns and eye damage.
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/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.

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.

· 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 0.0, 06-12-2024: Creation date for SDS CMC/STN 06/12/2024 / -• Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous GoodsDOT: US Department of TransportationIATA: International Air Transport AssociationEINECS: European Inventory of Existing Commercial Chemical SubstancesELINCS: European List of Notified Chemical SubstancesCAS: Chemical Abstracts Service (division of the American Chemical Society)NFPA: National Fire Protection Association (USA)HMIS: Hazardous Materials Identification System (USA)

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<sup>·</sup>US

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US

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 Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Eye Damage 1: Serious eye damage/eye irritation – Category 1