Printing date 08/20/2024

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Reviewed on 08/20/2024

	Reviewed on 08/20/20
Identification	
Product identifier	
Trade name: <u>Hydrochloric Acid/</u> Rhosphoric Acid Solution	
<u>Phosphoric Acid Solution</u> Article number: AX1063	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@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 Specific Target Organ Toxicity - Repeated Exposure 2	2 H373 May cause damage to organs through prolonged repeated exposure.
GHS05 Corrosion	
Skin Corrosion 1A	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.
GHS07	
\checkmark	H302 Harmful if swallowed.
Acute Toxicity - Oral 4 Specific Target Organ Toxicity - Single Exposure 3	H302 Harmful if swallowed. H335 May cause respiratory irritation.
Acute Toxicity - Oral 4 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab Hazard pictograms	H335 May cause respiratory irritation.
Acute Toxicity - Oral 4 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab Hazard pictograms	
Acute Toxicity - Oral 4 Specific Target Organ Toxicity - Single Exposure 3 Label elements GHS label elements The product is classified and lab Hazard pictograms	H335 May cause respiratory irritation.

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Trade name: Hydrochloric Acid/ Phosphoric Acid Solution

	(Contd. of page 1)
Hydrochloric Acid	
Hazard statements	
Harmful if swallowed.	
Causes severe skin burns and eye damage.	
May cause respiratory irritation.	
May cause damage to organs through prolonged or repeated exposure.	
Precautionary statements	
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/sho	
	wer.
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 pres	cont and cam to do
	sent and easy to do.
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 in a well-ventilated place. Keep container tightly closed.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regula	tions
Classification system:	nons.
NFPA ratings (scale 0 - 4)	
Health = 3	
Fire = 0	
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.	
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%	28.73%
Ĩ	
CAS: 7647-01-0 Hydrochloric Acid	20.119%

CAS: 7664-38-2	Phosphoric Acid 85%	28.73%
CAS: 7647-01-0	Hydrochloric Acid	20.119%
	(Cont	td. on page 3)
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Trade name: Hydrochloric Acid/

Phosphoric Acid Solution

(Contd. of page 2)

Table of Nonhazardous Ingredients

51.151%

4 First-aid measures

CAS: 7732-18-5 Water

• 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: Hydrochloric Acid/ Phosphoric Acid Solution

		(Contd. of page 3)
• Protective Action	Criteria for Chemicals	
· PAC-1:		
CAS: 7664-38-2	Phosphoric Acid 85%	$3 mg/m^3$
CAS: 7647-01-0	Hydrochloric Acid	1.8 ppm
• PAC-2:		
CAS: 7664-38-2	Phosphoric Acid 85%	30 mg/m^3
CAS: 7647-01-0	Hydrochloric Acid	22 ppm
• PAC-3:		
CAS: 7664-38-2	Phosphoric Acid 85%	150 mg/m ³
CAS: 7647-01-0	Hydrochloric Acid	100 ppm

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.

· Control parameters

· Components with limit values that r	· Components with limit values that require monitoring at the workplace:		
CAS: 7664-38-2 Phosphoric Acid 8	5%		
PEL	Long-term value: 1 mg/m ³		
REL	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³		
TLV	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³		
CAS: 7647-01-0 Hydrochloric Acid	CAS: 7647-01-0 Hydrochloric Acid		
NIOSH RECOMENDED EXP LIMI	Ceiling limit value: 7.0 mg/m3 mg/m ³		
PEL	Ceiling limit value: 7 mg/m³, 5 ppm		
REL	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.

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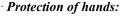
Reviewed on 08/20/2024

Trade name: Hydrochloric Acid/ Phosphoric Acid Solution

(Contd. of page 4)

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

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.





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:



*

Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and	chemical properties	
• General Information • Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Odorless	
· Odor threshold:	Not determined.	
• pH-value at 20 °C (68 °F):	<2	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	

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Trade name: Hydrochloric Acid/ Phosphoric Acid Solution

	(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):	1.173 g/cm³ (9.78869 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:	51.2 %	
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.

(Contd. on page 7)

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Trade name: Hydrochloric Acid/

Phosphoric Acid Solution

(Contd. of page 6)

· Informatio · Acute toxi	on on toxicological effects city:
	values that are relevant for classification:
ATE (Acu	te Toxicity Estimate)
Oral LD5	0 1,740 mg/kg
on the skin on the eye Strong cau Strong irri Sensitizati Additional The produc Harmful Corrosive Irritant	istic effect. tant with the danger of severe eye injury. on: No sensitizing effects known. I toxicological information: ct shows the following dangers according to internally approved calculation methods for preparation g will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophag
Carcinoge	nic categories
IARC (Int	ernational Agency for Research on Cancer)
None of th	e ingredients is listed.
NTP (Nati	ional Toxicology Program)
	e ingredients is listed.
	(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.

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.

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Trade name: Hydrochloric Acid/

Phosphoric Acid Solution

(Contd. of page 7)

• 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 UN3264 UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric A Phosphoric Acid 85%) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.A (Hydrochloric Acid, Phosphoric Acid 85%) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.A (Hydrochloric Acid, Phosphoric Acid 85%) Transport hazard class(es) DOT DOT Class * Class 8 Corrosive substances Label 8 * IMDG, IATA 1 Version 8 Class 8 Corrosive substances Label 8 * ODT, IMDG, IATA 1 Version Not applicable. * Special precautions for user Warning: Corrosive substances Hazard identification number (Kemler code): 80 8 * EMS Number: F-A,S-B * Segregation groups (SGG1) Acids • Survage Category B	TINI NI	
UN proper shipping name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric A Phosphoric Acid 85%) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N. (Hydrochloric Acid 85%) Transport hazard class(es) DOT DOT Corrosive substances Lubel 8 IMDG, IATA Scorrosive substances Lubel 8 Orrosive substances 1 Lubel 8 Orrosive substances 1 Lubel 8 Packing group 1 DOT, IMDG, IATA II Environmental hazards: Not applicable. Special precautions for user Warning: Corrosive substances Hazard identification number (Kemler code): 80 80 EMS Number: F-4,S-B Segregation groups 6GG1) Acids		UN3264
DOT Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric Acid 85%) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.4 (Hydrochloric Acid 85%) Transport hazard class(es) (Hydrochloric Acid, Phosphoric Acid 85%) DOT Image: Corrosive substances Class 8 Corrosive substances Label 8 IMDG, IATA Seconsiste substances Label 8 Orrosive substances 1 Label 8 Packing group 1 DOT, IMDG, IATA 11 Environmental hazards: Not applicable. Special precautions for user Warning: Corrosive substances Hazard identification number (Kemler code): 80 80 EMS Number: F-A,S-B Segregation groups 80		010201
Phosphoric Ácid 85%) IMDG, IATA CORROSIVE LIQUID, ACIDIC, INORGANIC, N.4 (Hydrochloric Acid, Phosphoric Acid 85%) • Transport hazard class(es) - • DOT - • Class 8 Corrosive substances • Label 8 • IMDG, IATA 8 • Class 8 Corrosive substances • Label 8 • Class 8 Corrosive substances • Label 8 • OT - • Class 8 Corrosive substances • Label 8 • OT - • Class 8 Corrosive substances • Label 8 • OT, IMDG, IATA II • DOT, IMDG, IATA II • Packing group II • DOT, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Corrosive substances • Hazard identification number (Kemler code): 80 80 • EMS Number: F-A,S-B • Segregation groups (SGG1) Acids • Stowage Category B		Corressive liquid, acidia, increania, n.o.s. (Hydrochloria)
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Label 8 · IMDG, IATA • • Class 8 Corrosive substances • Label 8 • Packing group 8 • DOT, IMDG, IATA II • Environmental hazards: Not applicable. • Special precautions for user Warning: Corrosive substances • Hazard identification number (Kemler code): 80 80 • EMS Number: F-A,S-B • Segregation groups (SGG1) Acids • Stowage Category B	8	
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• 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 B		Not applicable
Hazard identification number (Kemler code): 80EMS Number:F-A,S-BSegregation groups(SGG1) AcidsStowage CategoryB		
EMS Number:F-A,S-BSegregation groups(SGG1) AcidsStowage CategoryB		
Segregation groups(SGG1) AcidsStowage CategoryB		
Stowage Category B		
	Stowage Category Stowage Code	B SW2 Clear of living quarters.

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Trade name: Hydrochloric Acid/ Phosphoric Acid Solution

	(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 (EQ)	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 (HYDROCHLORIC ACID, PHOSPHORIC ACID 85%), 8, II
UN "Model Regulation":	

15 Regulatory information

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

· 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	ACTIVE
Phosphoric Acid 85%	ACTIVE
Hydrochloric Acid	ACTIVE
· 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.	
	(Contd. on page 10

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Trade name: Hydrochloric Acid/

Phosphoric Acid Solution

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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% Hydrochloric Acid · Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure. · Precautionary statements 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. Specific treatment (see on this label). Get medical advice/attention if you feel unwell. 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.

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, 08-19-2024: Reviewed SDS for accuracy. STN/GW

(Contd. on page 11)

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Trade name: Hydrochloric Acid/ Phosphoric Acid Solution

	(Contd. of page 10)
08/20/2024 / 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	
<i>Eye Damage 1: Serious eye damage/eye irritation – Category 1</i>	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3	
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2	2
* Data compared to the previous version altered.	
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