Printing date 01/03/2018

Reviewed on 01/03/2018

1 Identification

- · Product identifier
- Trade name: <u>Phosphoric Acid</u> 6.0 Molar Solution
- · Article number: SPX068
- 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 sherman@aquasolutions.org
 Emergency telephone number:
- *Chemtrec:* 800-424-9300 *Canutec:* 613-996-6666

2 *Hazard*(*s*) *identification*

· Classification of the substance or mixture



Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 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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(Contd. of page 1) Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 3Fire = 0Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 3 Health = 3 FIRE 0 Fire = 0**REACTIVITY O** 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: 7664-38-2 Phosphoric Acid 85%

· 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.
- 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 No further relevant information available.

(Contd. on page 3)

53.9947%

46.0053%

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· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

	s, protective equipment and emergency procedures				
· Environmental prece	pment. Keep unprotected persons away.				
Dilute with plenty of					
	r sewers/ surface or ground water.				
• Methods and materia	al for containment and cleaning up:				
Absorb with liquid-b	inding material (sand, diatomite, acid binders, universal binders, sawdust).				
Use neutralizing age					
Dispose contaminate	ed material as waste according to item 13.				
Ensure adequate ven	tilation.				
· Reference to other se	ections				
See Section 7 for info	prmation on safe handling.				
See Section 8 for info	See Section 8 for information on personal protection equipment.				
See Section 13 for di	See Section 13 for disposal information.				
· Protective Action Cr	iteria for Chemicals				
· PAC-1:					
CAS: 7664-38-2 Pho	osphoric Acid 85%	$3 mg/m^3$			
· PAC-2:					
CAS: 7664-38-2 Pho	osphoric Acid 85%	30 mg/m ³			
· PAC-3:					
CAS: 7664-38-2 Pho	osphoric Acid 85%	150 mg/m³			

7 Handling and storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · 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 item 7.

(Contd. on page 4)

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Consort Source of the second s	Cont	(Contd. of page 3 col parameters
CAS: 7664-38-2 Phosphoric Acid 85% PEL Long-term value: 1 mg/m ³ REL Short-term value: 3 mg/m ³ Long-term value: 3 mg/m ³ Long-term value: 3 mg/m ³ Long-term value: 1 mg/m ³ TV Short-term value: 1 mg/m ³ Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective equipment: Keep away from foodsn(js, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes. Avoid contact with the eyes. 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/ th 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 an varies from manufacturer. As the product is a preparation of several substances, the resistance of the glove material on the 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 b observed. Eyep protection: Physical and chemical properties Physical and chemical properties		
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Information on basic physical and chemical properties		Tightly sealed goggles
Information on basic physical and chemical properties	Phy	rical and chemical properties
	ырре	arance:

Form: Color: Liquid Clear

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		(Contd. of page 4
· 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)	
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	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):	1.28124 g/cm³ (10.69195 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:	46.0 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 lb/gl	
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.

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Trade name: Phosphoric Acid 6.0 Molar Solution

(Contd. of page 5)

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:

· on the skin: 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.
- \cdot 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

- · 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.

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(Contd. on page 7)

[·] Toxicity

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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	
	0111005	
UN proper shipping name		
DOT IMPC LATA	Phosphoric acid solution PHOSPHORIC ACID, SOLUTION	
IMDG, IATA	PHOSPHORIC ACID, SOLUTION	
Transport hazard class(es)		
DOT		
CORROSIVE		
•		
Class	8 Corrosive substances	
Label	8	
IMDG, IATA		
Â		
8		
Class	8 Corrosive substances	
Label	8	
	-	
Packing group DOT, IMDG, IATA	111	
	111	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Warning: Corrosive substances	
Danger code (Kemler):	80	
EMS Number:	F-A,S-B	
Segregation groups	Acids	
Stowage Category	A	
Transport in bulk according to Anne.	x II of	
MARPOL73/78 and the IBC Code	Not applicable.	

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· Transport/Additional information:	(Contd. of page
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L 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

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

Phosphoric Acid 85% Water

· 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.

 \cdot 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 established by ACGIH)

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). (Contd. on page 9)

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(Contd. of page 8) · Hazard pictograms GHS05 · 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
- 01-03-2018: review SDS for accuracy. STN Creation date for SDS 02-02-2015. STN

01/03/2018/-

- **Abbreviations and acronyms:** ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

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TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1