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Reviewed on 05/31/2024

### **1** Identification

- · Product identifier
- $\cdot Trade name: \underline{Acetic \ Acid \ Solution} \\ pH \ 2.40 \pm 0.02 \ @25^{\circ}C$
- · Article number: SPX333
- 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

· Classification of the substance or mixture

GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- · Label elements
- *GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms*



- · Signal word Warning
- · Hazard-determining components of labeling:

Acetic Acid, Glacial

- · Hazard statements
- May cause an allergic skin reaction. • **Precautionary statements** Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
- If on skin: Wash with plenty of water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Specific treatment (see on this label).
- Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

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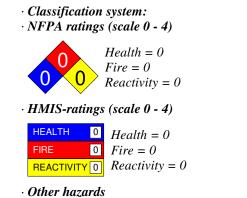
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(Contd. of page 1)

1.0%

99.0%



· 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: 64-19-7 Acetic Acid, Glacial

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

## 4 First-aid measures

· Description of first aid measures

· After inhalation:

Supply fresh air and to be sure call for a doctor.

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.

• After swallowing: If symptoms persist consult 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.

· Advice for firefighters

· Protective equipment: No special measures required.

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Personal preco	utions, protective equipment and emergency procedures Not required.	
	precautions: Dilute with plenty of water.	
Methods and m	naterial for containment and cleaning up:	
Absorb with lig	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose contar	ninated material as waste according to section 13.	
Ensure adequa		
Reference to o		
v	or information on safe handling.	
v	or information on personal protection equipment.	
	for disposal information.	
	on Criteria for Chemicals	
• PAC-1:		
CAS: 64-19-7	Acetic Acid, Glacial	5 pp
• PAC-2:		
CAS: 64-19-7	Acetic Acid, Glacial	35 pp
• PAC-3:		
~ ~ ~ <i>~ ~ ~</i> ~ ~ ~	Acetic Acid, Glacial	250 pp

#### 7 Handling and storage

· Handling:

- $\cdot$  Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- · 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: None.
- 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: 64-19-7 Acetic Acid, Glacial

- PEL Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- REL Short-term value: 37 mg/m<sup>3</sup>, 15 ppm Long-term value: 25 mg/m<sup>3</sup>, 10 ppm
- TLV Short-term value: 15 ppm Long-term value: 10 ppm

• Additional information: The lists that were valid during the creation were used as basis.

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#### Trade name: Acetic Acid Solution $pH 2.40 \pm 0.02 @25^{\circ}C$

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- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- 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 • 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: Goggles recommended during refilling.
- · Body protection: Protective work clothing

## 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- General Information

· Appearance:	
Form:	Liquid
Color:	Clear
· Odor:	Vinegar like
• Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	0 °C (32 °F)
<b>Boiling point/Boiling range:</b>	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.
	(Contd. on page

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#### Trade name: Acetic Acid Solution pH 2.40 ± 0.02 @25°C

		Contd. of page
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):	1.00053 g/cm <sup>3</sup> (8.34942 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	e <b>r):</b> Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	1.0 %	
Water:	99.0 %	
VOC content:	1.00 %	
	10.0 g/l / 0.08 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.

# **11 Toxicological information**

- · Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- ATE (Acute Toxicity Estimate)
- Dermal LD50 106,000 mg/kg (rabbit)
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

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## Safety Data Sheet acc. to OSHA HCS

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#### Trade name: Acetic Acid Solution $pH 2.40 \pm 0.02 @25^{\circ}C$

Irritant

· 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: Not hazardous for water.
- · 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, ADN, IMDG, IATA	Not regulated	
· UN proper shipping name		
· DOT, ADN, IMDG, IATA	Not regulated	
· Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
· Class	Not regulated	
· Packing group		
DOT, IMDG, IATA	Not regulated	

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#### Trade name: Acetic Acid Solution $pH 2.40 \pm 0.02 @25^{\circ}C$

		(Contd. of page 6)
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	l of Not applicable.	
· UN "Model Regulation":	Not regulated	

## **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):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

 Water
 ACTIVE

 Acetic Acid, Glacial
 ACTIVE

 • Hazardous Air Pollutants
 ACTIVE

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.

• 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). (Contd. on page 8)

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Trade name: Acetic Acid Solution pH 2.40 ± 0.02 @25°C

(Contd. of page 7) · Hazard pictograms GHS07 · Signal word Warning · Hazard-determining components of labeling: Acetic Acid, Glacial · Hazard statements May cause an allergic skin reaction. · Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out. <u>16 Other information</u> 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, 05/31/2024: Reviewed SDS for accuracy. MH/STN Creation date for SDS 11-20-2014. STN 05/31/2024 · 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)

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

Sensitization - Skin 1: Skin sensitisation – Category 1 • \* Data compared to the previous version altered.

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