Printing date 05/21/2024

Reviewed on 05/21/2024

1 Identification

- · Product identifier
- Trade name: <u>Phenol Red 0.1%</u> in 20% Ethanol
- Article number: SPX499
- 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



Flammable Liquids 3 H226 Flammable liquid and vapor.

· Label elements

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



Signal word Warning
Hazard statements
Flammable liquid and vapor.
Precautionary statements
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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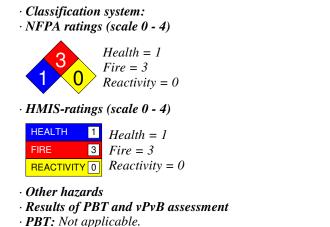
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16.464%

83.432%

0.104%



· vPvB: Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

CAS: 34487-61-1 Phenol Red, Sodium Salt

4 First-aid measures

- · Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · 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:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. · Special hazards arising from the substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: No special measures required.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures					
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).					
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: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	1,800 ppm				
CAS: 34487-61-1 Phenol Red, Sodium Salt	12 mg/m ³				
PAC-2:					
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	3300* ppm				
CAS: 34487-61-1 Phenol Red, Sodium Salt	130 mg/m ³				
PAC-3:					
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	15000* ppm				
CAS: 34487-61-1 Phenol Red, Sodium Salt	790 mg/m ³				

7 Handling and storage

· Handling:

- Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · 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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· Components with limit values that require monitoring at the workplace:

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· Control parameters

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Components with time require monitoring at the workplace.
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof
PEL Long-term value: 1900 mg/m ³ , 1000 ppm
REL Long-term value: 1900 mg/m ³ , 1000 ppm
TLV Short-term value: 1000 ppm
A3
• Additional information: The lists that were valid during the creation were used as basis.
· 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: Not required.
· Protection of hands:
N2 Protective claves
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
Tignity sectice goggies
· Body protection: Protective work clothing
0 Physical and chemical properties
9 Physical and chemical properties
Information on basic abusical and chamical momenties

- · Information on basic physical and chemical properties
- · General Information
- Appearance: Form:
- Form:LiquidColor:Clear red-yellow• Odor:Alcohol-like• Odor threshold:Not determined.
- pH-value: Not determined.

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• Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 78.3 °C (172.9 °F)
· Flash point:	36 °C (96.8 °F)
· Flammability (solid, gaseous):	Flammable.
· Auto igniting:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Ignition temperature:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits: Lower: Upper:	3.5 Vol % 19 Vol %
 Vapor pressure at 20 °C (68 °F): Vapor pressure at 50 °C (122 °F): 	59 hPa (44.3 mm Hg) 280 hPa (210 mm Hg)
 Density: Relative density Vapor density Evaporation rate 	Not determined. Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
• Solvent content: Organic solvents: Water: VOC content:	16.5 % 83.4 % 16.46 % 164.6 g/l / 1.37 lb/gal
Solids content:	16.6 %
· 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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· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- · Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- \cdot on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

· 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.

- · 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.

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Transport information	
· UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Ethanol)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Ethanol)
• Transport hazard class(es)	
DOT	
P.MMIREE LOUG	
3	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	30
· EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	A
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: 60 L
	On cargo aircraft only: 220 L
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (\widetilde{EQ})	Code: E1
· ~	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL), 3, III

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Safety, health and environmental regulations/legislation specific for the su	ubstance 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):	
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
Water	ACTIVE
Ethyl Alcohol, Absolute 200 Proof	ACTIVI
Phenol Red, Sodium Salt	ACTIVI
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:	

· EIA (Environmental Protection Agency)
None of the ingredients is listed.
· TLV (Threshold Limit Value)
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof A3
·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 Warning

· Hazard statements

Flammable liquid and vapor.

• **Precautionary statements** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment.

quipment.

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 $Use \ explosion-proof \ electrical/ventilating/lighting/equipment.$

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep cool.

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, 05/21/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 06-13-2023: Creation date for SDS. STN 05/21/2024 • 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) 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 Flammable Liquids 3: Flammable liquids – Category 3 \cdot * Data compared to the previous version altered.