Printing date 06/26/2024

Reviewed on 06/26/2024

## **1** Identification

- · Product identifier
- · Trade name: Phenolphthalein Solution, 1% in 95% Ethanol
- · Article number: 161-0542
- 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 2

H225 Highly flammable liquid and vapor.

GHS08 Health hazard

Germ Cell Mutagenicity 2H341 Suspected of causing genetic defects.Carcinogenicity 1BH350 May cause cancer.Toxic to Reproduction 2H361 Suspected of damaging fertility or the unborn child.Specific Target Organ Toxicity - Single Exposure 2H371 May cause damage to the central nervous system and<br/>the visual organs.

· 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: Methanol Phenolphthalein

• Hazard statements Highly flammable liquid and vapor. Suspected of causing genetic defects. May cause cancer.

(Contd. on page 2)

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# Trade name: Phenolphthalein Solution, 1% in 95% Ethanol

Suspected of damaging fertuity or the unborn child. May cause damage to the central nervous system and the visual organs. • Precationary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/misi/vapors/spray. Wash thromoghly dift handling. Do not eat, drink or smoke when using this product. Wear protective glowes/protective clothing/eye protection/face protection. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. • Classification system: • NFPA ratings (scale 0 - 4) Mealth = 0 Fire = 3 Reactivity = 0 • MIMS-ratings (scale 0 - 4) Mealth = 0 Fire = 3 Reactivity = 0 • Uther hazards Reactivity = 0 • Other hazards Reactivity = 0 • Other hazards <b>Results of PT and vPVB assessment</b> • PFP: Not applicable. • PFP: Not applicable. • PFP: Not applicable. • PFP: Not applicable. • Pref: Not applicable. • Pref: Not applicable. • Pref: Not applicable. • Pref: Misture of the substances listed below with nonhazardous additions.		(Contd. of page 1
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• vPvB: Not applicable. 3 Composition/information on ingredients • Chemical characterization: Mixtures		
3 Composition/information on ingredients • Chemical characterization: Mixtures		
· Chemical characterization: Mixtures	· <b>vPvB:</b> Not applicable.	
· Chemical characterization: Mixtures		
· Chemical characterization: Mixtures	3 Composition/information on ingredients	

· Dangerous components:		
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	88.884%	
CAS: 67-56-1 Methanol	4.953%	
CAS: 67-63-0 Isopropanol	4.911%	
CAS: 77-09-8 Phenolphthalein	1.253%	
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Trade name: Phenolphthalein Solution, 1% in 95% Ethanol

(Contd. of page 2)

1,800 ppm 530 ppm 400 ppm 4 mg/m<sup>3</sup>

3300\* ppm 2,100 ppm 2000\* ppm (Contd. on page 4)

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### **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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### 6 Accidental release measures

• Environmental Dilute with plen	equipment. Keep unprotected persons away.
Dilute with plen	
	precautions:
	ty of water.
Do not allow to	enter sewers/ surface or ground water.
· Methods and me	aterial for containment and cleaning up:
	uid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
•	inated material as waste according to section 13.
Ensure adequate	
· Reference to oth	
	r information on safe handling.
	r information on personal protection equipment.
	or disposal information.
· Protective Actio	n Criteria for Chemicals
• PAC-1:	
CAS: 64-17-5 E	Ethyl Alcohol, Absolute 200 Proof
CAS: 67-56-1 N	Iethanol
CAS: 67-63-0 Is	sopropanol
CAS: 77-09-8 P	Phenolphthalein
· PAC-2:	
CAS: 64-17-5 E	Ethyl Alcohol, Absolute 200 Proof
CAS: 67-56-1 M	Iethanol
CAS: 67-63-0 I	sopropanol

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#### Trade name: Phenolphthalein Solution, 1% in 95% Ethanol

CAS: 77-09-8	Phenolphthalein	(Contd. of page 3) 1.4 ppm
· PAC-3:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppm
CAS: 67-56-1		7200* ppm
CAS: 67-63-0		12000** ppm
CAS: 77-09-8	Phenolphthalein	20 ppm

### 7 Handling and storage

#### · Handling:

- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Prevent formation of aerosols.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 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:
- The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

CAS: 64-17-5	Ethvl Alcohol.	Absolute 200 Proof	

PEL Long-term value: 1900 mg/m <sup>3</sup> , 1000 ppm	erm value:	1900 mg/m³,	1000 ppm
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- REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm
- *TLV Short-term value: 1000 ppm* A3

#### CAS: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m<sup>3</sup>, 200 ppm
- REL Short-term value: 325 mg/m<sup>3</sup>, 250 ppm Long-term value: 260 mg/m<sup>3</sup>, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc

(Contd. on page 5)

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#### Trade name: Phenolphthalein Solution, 1% in 95% Ethanol

	(Contd. of page 4)
	: 67-63-0 Isopropanol
PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm
	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm
TLV	Short-term value: 400 ppm
	Long-term value: 200 ppm
	BEI, A4
· Ingr	edients with biological limit values:
CAS	: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
	: 67-63-0 Isopropanol
	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
• Addi	tional information: The lists that were valid during the creation were used as basis.
· Expa	sure controls
· Pers	onal protective equipment:
	ral protective and hygienic measures:
	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	protective clothing separately.
	<b>thing equipment:</b> se of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
	ratory protective device that is independent of circulating air.
	ection of hands:
	Protective gloves
The s	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
	ical mixture.
	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	rial of gloves
	election of the suitable gloves does not only depend on the material, but also on further marks of quality and
varie	s 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.

(Contd. on page 6)

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# Safety Data Sheet acc. to OSHA HCS

Printing date 06/26/2024

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Trade name: Phenolphthalein Solution, 1% in 95% Ethanol

• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

· Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Alcohol Not determined.	
Odor threshold:		
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	Undetermined.	
<b>Boiling point/Boiling range:</b>	Undetermined.	
Flash point:	13 °C (55.4 °F)	
Flammability (solid, gaseous):	Highly 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/vapo mixtures are possible.	
Explosion limits:		
Lower:	3.5 Vol %	
Upper:	19 Vol %	
Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)	
Density at 20 °C (68 °F):	0.7983 g/cm <sup>3</sup> (6.66181 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/wat	er): Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent content:		
Organic solvents:	98.7 %	

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VOC content:	98.75 %	
	788.3 g/l / 6.58 lb/gal	
Solids content:	1.3 %	
• 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)			
Oral	LD50	2,019 mg/kg	
Dermal	LD50	2,019 mg/kg 6,057 mg/kg	
Inhalative	LC50/4h	60.6 mg/l	

· Primary irritant effect:

• on the skin: No irritant effect.

• on the eye: No irritating effect.

• Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1
CAS: 67-63-0	Isopropanol	3
CAS: 77-09-8	Phenolphthalein	28
,	ıl Toxicology Program)	
CAS: 77-09-8	Phenolphthalein	R
· OSHA-Ca (Od	ccupational Safety & Health Administration)	
None of the in	gredients is listed.	

## **12 Ecological information**

· Toxicity

· Aquatic toxicity: No further relevant information available.

· Persistence and degradability No further relevant information available.

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· Behavior in environmental systems:	(Contd. of page 7)
• <b>Bioaccumulative potential</b> No further relevant information available.	
• <b>Mobility in soil</b> No further relevant information available.	
· Additional ecological information:	
· General notes:	
Water hazard class 2 (Self-assessment): hazardous for water	
Do not allow product to reach ground water, water course or sewage system.	
Danger to drinking water if even small quantities leak into the ground.	
· Results of PBT and vPvB assessment	
• <b>PBT:</b> Not applicable.	
• <b>vPvB:</b> 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.

# **14 Transport information** · UN-Number UN1993 · DOT, IMDG, IATA · UN proper shipping name $\cdot DOT$ Flammable liquids, n.o.s. (Ethanol, Methanol, Isopropanol · IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol, Isopropanol ) · Transport hazard class(es) · DOT · Class 3 Flammable liquids · Label 3 \_ \_ \_ \_ \_ \_ \_ \_ \_ · IMDG, IATA · Class 3 Flammable liquids · Label 3 (Contd. on page 9) US

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· Packing group · DOT, IMDG, IATA	11
· Environmental hazards: · Marine pollutant:	No
<ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids 30 B
• 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) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANO) METHANOL, ISOPROPANOL ), 3, II

# **15 Regulatory information**

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 $\cdot$  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: 67-56-1 Methanol	
CAS: 67-63-0 Isopropanol	
CAS: 77-09-8 Phenolphthalein	
· TSCA (Toxic Substances Control Act):	
Ethyl Alcohol, Absolute 200 Proof	ACTIVE
Methanol	ACTIVE
Isopropanol	ACTIVE
Phenolphthalein	ACTIVE
· Hazardous Air Pollutants	
CAS: 67-56-1 Methanol	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 77-09-8 Phenolphthalein	
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• Chemicals known to cause rep	roductive toxicity for females:
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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:

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

CAS: 67-56-1 Methanol

#### · Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

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

CAS: 67-63-0 Isopropanol

· 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: Methanol Phenolphthalein · Hazard statements Highly flammable liquid and vapor. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to the central nervous system and the visual organs. · Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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. IF exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish.

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Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

• Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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 0.1, 06/26/2024: Reviewed SDS for accuracy. MH/STN 06/26/2024 / 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 BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2 Carcinogenicity 1B: Carcinogenicity - Category 1B Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) - Category 2 • \* Data compared to the previous version altered.