Printing date 05/12/2021

Reviewed on 05/12/2021

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



Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT SE 2 H371 May cause damage to the central nervous system and 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: Phenolphthalein Isopropanol Methanol (Methyl Alcohol)

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

(Contd. on page 2)

US

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

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 head/sparks/open flames/hot surfaces No smoking. Keep container tightly closed. Ground/Dond 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 eta, 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 for extinction: CO2, powder or water spray. Store in a well-ventilated place. Keep cool. 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) HEALTH Q Health = 0 Fire = 3 Reactivity = 0 IMIS-ratings (scale 0 - 4) HEALTH Q Health = 3 Fire = 3 Reactivity = 0 Cher kazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. VPB: Not applicable. Composition/Information on ingredients Chemical characterization: Mixtures		(Contd. of page
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Chemical characterization: Mixtures	composition/mjormation on ingreatents	
	Chemical characterization: Mixtures	

· Dangerous components:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	88.884%
CAS: 67-56-1	Methanol (Methyl Alcohol)	4.953%
CAS: 67-63-0	Isopropanol	4.911%
CAS: 77-09-8	Phenolphthalein	1.253%
US -		

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

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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

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). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections See Section 7 for information on safe handling. See Section 13 for disposal information.
Protective Action Criteria for Chemicals

• Protective Action Criteria for Chemicals

· PAC-1:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	1,800 ppm
CAS: 67-56-1 Methanol (Methyl Alcohol)	530 ppm
CAS: 67-63-0 Isopropanol	400 ppm
CAS: 77-09-8 Phenolphthalein	4 mg/m ³
• PAC-2:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	3300* ppm
CAS: 67-56-1 Methanol (Methyl Alcohol)	2,100 ppm
CAS: 67-63-0 Isopropanol	2000* ppm
	(Contd. on page 4)

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

CAS: 77-09-8	Phenolphthalein	(Contd. of page 3) 44 mg/m ³
· PAC-3:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	15000* ppm
CAS: 67-56-1	Methanol (Methyl Alcohol)	7200* ppm
CAS: 67-63-0	Isopropanol	12000** ppm
CAS: 77-09-8	Phenolphthalein	260 mg/m ³

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 item 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	Ethyl Alcohol,	Absolute 200	Proof
01101 01 17 0		1100000000 2000	j

PEL	Long-term value: 1900 mg/m ³ , 1000 ppm	

REL	Long-term	value:	1900 mg/m ³ ,	1000 ppm
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TLV Short-term value: 1880 mg/m³, 1000 ppm

CAS: 67-56-1 Methanol (Methyl Alcohol)

- PELLong-term value: 260 mg/m³, 200 ppmRELShort-term value: 325 mg/m³, 250 ppmLong-term value: 260 mg/m³, 200 ppm
- Skin
- TLV Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI

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

(Contd. of page 4	4)
CAS: 67-63-0 Isopropanol	
PEL Long-term value: 980 mg/m ³ , 400 ppm	
REL Short-term value: 1225 mg/m³, 500 ppm	
Long-term value: 980 mg/m ³ , 400 ppm	
TLV Short-term value: 984 mg/m³, 400 ppm	
Long-term value: 492 mg/m ³ , 200 ppm	
BEI	
· Ingredients with biological limit values:	Ī
CAS: 67-56-1 Methanol (Methyl Alcohol)	
BEI 15 mg/L	-
LD50 Intraperitoneal: urine	
Time: end of shift	
LD50: Methanol (background, nonspecific)	
CAS: 67-63-0 Isopropanol	
BEI 40 mg/L	
LD50 Intraperitoneal: urine	
Time: end of shift at end of workweek	
LD50: Acetone (background, nonspecific)	
• Additional information: The lists that were valid during the creation were used as basis.	
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.	
· Breathing equipment:	
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure us	se
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/ th	ie
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 to manufacturer. As the product is a preparation of several substances, the resistance of	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 super breach through time has to be found out by the manufactures of the protective cloves and has to be	
The exact break through time has to be found out by the manufacturer of the protective gloves and has to b observed.	ie
Observeu.	6)

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

• Eye protection:

(Contd. of page 5)



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Alcohol
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	13 °C (55.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.
Auto igniting:	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/cm³ (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/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	98.7 %

US

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

		(Contd. of page 6)
VOC content:	98.75 % 788.3 g/l / 6.58 lb/gal	
	788.5 gr 7 0.58 to/gu	
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 23,967-55,909 mg/kg (rat)

Inhalative LC50/4h 2,588 mg/l (rat)

CAS: 67-56-1 Methanol (Methyl Alcohol)

		100 mg/kg (ATE)
Dermal	LD50	300 mg/kg (ATE)
Inhalative	LC50/4h	3 mg/l (ATE)

• 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

· ·	ational Agency for Research on Cancer)	
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1
CAS: 67-63-0		3
CAS: 77-09-8	Phenolphthalein	2B
· NTP (Nationa	l Toxicology Program)	
CAS: 77-09-8	Phenolphthalein	R
· OSHA-Ca (Od	ccupational Safety & Health Administration)	
None of the in	gredients is listed.	

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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 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
- · **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, IMDG, IATA	UN1993
UN proper shipping name	
	Flammable liquids, n.o.s. (Ethanol, Methanol, Isopropanol)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (ETHANOL, METHANO Isopropanol)
Transport hazard class(es)	
DOT	
PAMARE LOUD	
Class	3 Flammable liquids
Label	3

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	(Contd. of page
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code)	
· Stowage Category	В
• 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)	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 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOI
	METHANOL, ISOPROPANOL), 3, II

15 Regulatory information

Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
Section 313 (Specific toxic chemical listings):	
CAS: 67-56-1 Methanol (Methyl Alcohol)	
CAS: 67-63-0 Isopropanol	
CAS: 77-09-8 Phenolphthalein	
TSCA (Toxic Substances Control Act):	
Ethyl Alcohol, Absolute 200 Proof	ACTIV
Methanol (Methyl Alcohol)	ACTIV
Isopropanol	ACTIV
Phenolphthalein	ACTIV

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Safety Data Sheet acc. to OSHA HCS

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

· Hazardous Air Pollutants	
CAS: 67-56-1 Methanol (Methyl Alcohol)	
· Proposition 65	
· Chemicals known to cause cancer:	
CAS: 77-09-8 Phenolphthalein	
· 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:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	
CAS: 67-56-1 Methanol (Methyl Alcohol)	
· 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	A3
CAS: 67-63-0 Isopropanol	A4

· 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: *Phenolphthalein* Isopropanol Methanol (Methyl Alcohol) · 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.

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

	(Contd. of page 10)
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	r.
IF exposed or concerned: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/international regulation	ns.
· 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.	
6 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:

· Connact:
· Date of preparation / last revision
Revision 1.0,04-06-2021, reviewed SDS for Accuracy. STN
05/12/2021 / -
· 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
Flam. Liq. 2: Flammable liquids – Category 2
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2