Printing date 05/17/2023

Reviewed on 05/17/2023

1 Identification

- · Product identifier
- Trade name: Phenolphthalein 1% in 95% Alcohol (pH 8.0 Clear, pH 10.0 Pink)
- · Article number: P1997
- · 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



GHS02 Flame

Flammable Liquids 2

GHS08 Health hazard

Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects. Carcinogenicity 1B H350 May cause cancer. H361 Suspected of damaging fertility or the unborn child. Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to the central nervous system and the visual organs.

H225 Highly 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 Danger

· Hazard-determining components of labeling: Methanol Phenolphthalein · Hazard statements Highly flammable liquid and vapor. Suspected of causing genetic defects.

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US

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Trade name: Phenolphthalein 1% in 95% Alcohol (pH 8.0 Clear, pH 10.0 Pink)

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Chemical characterization: Mixtures	composition information on ingreatents	
	Chemical characterization: Mixtures	

· 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 1% in 95% Alcohol (pH 8.0 Clear, pH 10.0 Pink)

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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 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: 67-56-1 Methanol	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	2,100 ppm
· · · · · · · · · · · · · · · · · · ·	(Contd. on page 4)

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Trade name: Phenolphthalein 1% in 95% Alcohol (pH 8.0 Clear, pH 10.0 Pink)

CAS: 67-63-0		Contd. of page 3) 2000* ppm
CAS: 77-09-8	Phenolphthalein	44 mg/m ³
· PAC-3:		
		5000* ppm
CAS: 67-56-1	Methanol 7	'200* ppm
CAS: 67-63-0	Isopropanol 1	2000** ppm
CAS: 77-09-8	Phenolphthalein 2	60 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 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 Ethyl Alcohol, Absolute 200 Proof

- PEL Long-term value: 1900 mg/m³, 1000 ppm
- REL Long-term value: 1900 mg/m³, 1000 ppm
- TLV Short-term value: 1000 ppm
- A3

CAS: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin

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TIV	Short-term value: 250 ppm (Contd. of page 4)
ILV	Long-term value: 200 ppm
	Skin; BEI
CAS:	: 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/m³, 400 ppm
TLV	Short-term value: 400 ppm
	Long-term value: 200 ppm BEI, A4
7	
-	edients with biological limit values:
	: 67-56-1 Methanol
	15 mg/L LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
CAS:	: 67-63-0 Isopropanol
	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific) tional information: The lists that were valid during the creation were used as basis.
Perso Gene Keep Imme Wash Store Brea In ca respi	esure controls onal protective equipment: eral protective and hygienic measures: a away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. a hands before breaks and at the end of work. p protective clothing separately. thing equipment: use 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. extian of hands:
	Protective gloves 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

· 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.

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US

Safety Data Sheet acc. to OSHA HCS

Printing date 05/17/2023

Reviewed on 05/17/2023

Trade name: Phenolphthalein 1% in 95% Alcohol (pH 8.0 Clear, pH 10.0 Pink)

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• Eye protection:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and o	chemical properties
General Information	
Appearance:	7 · · · 1
Form: Color:	Liquid
Odor:	Clear Alcohol
Odor: Odor: 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):	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/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	e r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.

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· Solvent content:		
Organic solvents:	98.7 %	
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
 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	,	
CAS: 64-17-5 Ethyl Alcohol, Abs	colute 200 Proof	1
CAS: 67-63-0 Isopropanol		3
CAS: 77-09-8 Phenolphthalein		2B
· NTP (National Toxicology Progr	ram)	
CAS: 77-09-8 Phenolphthalein		R
· OSHA-Ca (Occupational Safety	& Health Administration)	
None of the ingredients 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 · DOT	Flammable liquids, n.o.s. (Ethanol, Methanol, Isopropanol
· IMDG, IATA	, FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol, Isopropand)
· Transport hazard class(es)	
·DOT	
RAMABLE LOUD	
· Class	3 Flammable liquids

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	(Contd. of page
Label	3
IMDG, IATA	
3	
Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	
Marine pollutant:	No
<u>^</u>	Warning, Flammahla liquida
Special precautions for user Hazard identification number (Kemler code)	Warning: Flammable liquids • 30
Stowage Category	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)	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
), <i>3</i> , <i>11</i>

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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 in	gredients is listed.	
• Section 313 (3	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
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Isopropanol	(Contd. of page 9) ACTIVE
Phenolphthalein	ACTIVE
· Hazardous Air Pollutants	
CAS: 67-56-1 Methanol	
· 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

· 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.

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(Contd. of page 10) 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. *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 Revision 1.0 05/17/2023 reviewed SDS for accuracy. S.T.N. Revisioon 1.0, 02/15/2023: Reviewed SDS and updated some physical and chemical properties. STN 05/17/2023 · 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.

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