Printing date 03/05/2025 Reviewed on 03/05/2025

### 1 Identification

· Product identifier

· Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

· Article number: 6651

· 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

H225 Highly flammable liquid and vapor.

H351 Suspected of causing cancer.



GHS08 Health hazard

Carcinogenicity 2

Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure 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





GHS02 GHS08

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

Methanol

Phenolphthalein

· Hazard statements

Highly flammable liquid and vapor.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

(Contd. on page 2)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 1)

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.

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 = 0Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Fire = 3

- · Other hazards
- · 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 co	· Dangerous components:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	72.152%	
CAS: 67-56-1	Methanol	3.808%	
CAS: 77-09-8	Phenolphthalein	0.12%	

### · Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water 23.92%

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 2)

### 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

	3	
· PAC-1:		
CAS: 64-17-5 Ethyl	Alcohol, Absolute 200 Proof	1,800 ppm
CAS: 67-56-1 Metho	ınol	530 ppm
CAS: 77-09-8 Pheno	plphthalein	4 mg/m <sup>3</sup>
· PAC-2:		
CAS: 64-17-5 Ethyl	Alcohol, Absolute 200 Proof	3300* ppm
CAS: 67-56-1 Metho	ınol	2,100 ppm
CAS: 77-09-8 Pheno	plphthalein	1.4 ppm
<u>'</u>		(Contd. on page 4)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

	(Contd. of page 3)
· PAC-3:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	15000* ppm
CAS: 67-56-1 Methanol	7200* 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 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
TIV	Skin
ILV	Short-term value: 250 ppm Long-term value: 200 ppm
	Skin; BEIc
	(Contd on page 5)

(Contd. on page 5)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 4)

#### · Ingredients with biological limit values:

### CAS: 67-56-1 Methanol

BEI 15 mg/L

LD50 Intraperitoneal: urine

Time: end of shift

LD50: Methanol (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 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:



Tightly sealed goggles

· Body protection: Protective work clothing

### 9 Physical and chemical properties

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

Form: Liquid

(Contd. on page 6)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

Color threshold: Not determined.   Not determined.		(Contd. of page
Odor threshold:  PH-value:  Not determined.  Phouge in condition Melting point/Melting range: Boiling point/Boiling range: Plash point:  13°C (75.4°F)  Flammability:  Highly flammable.  Auto igniting:  425°C (797°F)  Decomposition temperature:  Not determined.  Product is not selfigniting.  Danger of explosion:  Product is not explosive. However, formation of explosive air/va, mixtures are possible.  Explosion limits:  Lower:  Upper:  19 Vol %  Vapor pressure at 20°C (68°F):  9 PhPa (44.3 mm Hg)  Density at 20°C (68°F):  0.8314 g/cm³ (6,93803 lbs/gal)  Not determined.  Not determined.  Not determined.  Solubility in / Miscibility with Water:  Fully miscible.  Partition coefficient (n-octanol/water): Not determined.  Viscosity:  Dynamic: Not determined.  Not determined.  Not determined.  Not determined.  Solvent content:  Organic solvents:  76.0 % Water: 23.9 %  VOC content:  75.96 % 631.5 g/l / 5.27 lb/gal  Solids content:  72.3 %	Color:	Clear
Odor threshold:     Not determined.       pH-value:     Not determined.       Change in condition Melting range:     Undetermined. Boiling point/Melting range:     Viscosity:       Flash point:     13 °C (55.4 °F)       Flash point:     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/va, 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):     0.8314 g/cm³ (6.93803 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/water):     Not determined.       Viscosity:     On antic:     Not determined.       Dynamic:     Not determined.       Kinematic:     Not determined.       Vost content:     76.0 %       Quarries olvents:     75.96 %       Water:     23.9 %       VOC content:     75.96 % <td>· Odor:</td> <td>de l'alcool</td>	· Odor:	de l'alcool
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VOC content:       75.96 %         631.5 g/l / 5.27 lb/gal         Solids content:       72.3 %		
631.5 g/l / 5.27 lb/gal  Solids content: 72.3 %		
Solids content: 72.3 %	VOC content:	
Office of the state of the stat	Solids content:	
<b>11ther intermation</b> No turther relevant intermation available	· Other information	No further relevant information available.

### 10 Stability and reactivity

· Reactivity No further relevant information available.

(Contd. on page 7)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 6)

- · 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	2,626 mg/kg
Dermal	LD50	7,878 mg/kg
Inhalative	LC50/4h	78.8 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 (Intern	ational Agend	v for Research	on Cancer)

CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1
CAS: 77-09-8	Phenolphthalein	2B

· NTP (National Toxicology Program)

CAS: 77-09-8 Phenolphthalein R

· 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 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.

(Contd. on page 8)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

· Other adverse effects No further relevant information available.

(Contd. of page 7)

### 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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545	ransport	ากา	orma	nom

	UN	I-N	umber
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· DOT, IMDG, IATA

UN1993

· UN proper shipping name

 $\cdot DOT$ 

, ......

Flammable liquids, n.o.s. (Ethanol, Methanol)

· IMDG, IATA FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)

· Transport hazard class(es)

 $\cdot DOT$ 



· Class 3 Flammable liquids

· Label

· IMDG, IATA



· Class 3 Flammable liquids

· Label

· Packing group

· DOT, IMDG, IATA

II

• Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids

· Hazard identification number (Kemler code): 33

• EMS Number: F-E, S-E

· Stowage Category B

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

(Contd. on page 9)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

	(Contd. of page 8
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. (ETHANOL, METHANOL), 3, II

### 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):

CAS: 67-56-1 Methanol

CAS: 77-09-8 Phenolphthalein

· TSCA (Toxic Substances Control Act):

Ethyl Alcohol, Absolute 200 Proof	ACTIVE
Water	ACTIVE
Methanol	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.

(Contd. on page 10)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 9)

#### · 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





GHS02 G

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

Methanol

Phenolphthalein

#### · Hazard statements

Highly flammable liquid and vapor.

Suspected of causing 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.

Store in a well-ventilated place. Keep cool.

Store locked up.

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 0.0, 09-04-2024: Creation date for SDS. STN

(Contd. on page 11)

Printing date 03/05/2025 Reviewed on 03/05/2025

Trade name: Phenolphthalein Solution 0.1% w/v in 80% Alcohol

(Contd. of page 10)

#### 03/05/2025 / -

#### · 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 Carcinogenicity 2: Carcinogenicity – Category 2

Toxic to Reproduction 2: Reproductive toxicity – Category 2

Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) - Category 2

-US