US

Safety Data Sheet acc. to OSHA HCS

Printing date 06/18/2024

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Reviewed on 06/18/2024

Product identifier	
Trade name: <u>Phenolphthalein 1% w/v</u> in Methanol Solution	
Article number: 6662	
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	AQUA SOLUTIONS
Information department: Technical Coordinator Sherman Nelson shermann@aquasolutions.org Technical Coordinator Sherman Nelson shermann@aquasolutions.org Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Hazard(s) identification Classification of the substance or mixture	H225 Highly flammable liquid and vapor.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame	H225 Highly flammable liquid and vapor.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2	H225 Highly flammable liquid and vapor. H301 Toxic if swallowed.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones	
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3	H301 Toxic if swallowed.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3	H301 Toxic if swallowed. H311 Toxic in contact with skin.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3	H301 Toxic if swallowed. H311 Toxic in contact with skin.
Hazard(s) identification Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS06 Skull and crossbones Acute Toxicity - Oral 3 Acute Toxicity - Dermal 3 Acute Toxicity - Inhalation 3 GHS08 Health hazard	H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled.

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Trade name: Phenolphthalein 1% w/v in Methanol Solution

(Contd. of page 1) · Hazard pictograms GHS02 GHS06 GHS08 · Signal word Danger · Hazard-determining components of labeling: Methanol **Phenolphthalein** · Hazard statements Highly flammable liquid and vapor. Toxic if swallowed, in contact with skin or if inhaled. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes 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. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. 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 = 2Fire = 3Reactivity = 0

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Trade name: Phenolphthalein 1% w/v in Methanol Solution

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98.738%

1.262%

· HMIS-ratings (scale 0 - 4)

HEALTH*2Health =
$$*2$$
FIRE3Fire = 3REACTIVITY0Reactivity = 0

· 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 components:

CAS: 67-56-1 Methanol

CAS: 77-09-8 Phenolphthalein

4 First-aid measures

· Description of first aid measures

· General information:

Immediately remove any clothing soiled by the product.

- *Remove breathing apparatus only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration.*
- After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 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.

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(Contd. of page 3)

Environmenta	ve equipment. Keep unprotected persons away. I l precautions: Do not allow to enter sewers/ surface or ground water.	
	material for containment and cleaning up:	
	quid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
	minated material as waste according to section 13.	
Ensure adequation Reference to a		
	for information on safe handling.	
	for information on personal protection equipment.	
	for disposal information.	
Protective Act	ion Criteria for Chemicals	
• PAC-1:		
CAS: 67-56-1	Methanol	530 ppn
CAS: 77-09-8	Phenolphthalein	4 mg/m ³
• PAC-2:		
CAS: 67-56-1	Methanol	2,100 ppn
CAS: 77-09-8	Phenolphthalein	1.4 ppm
<i>PAC-3:</i>		
CAS: 67-56-1	Methanol	7200* ppn
	Phenolphthalein	20 ppm

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
- \cdot 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.

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 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 basi. 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. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter device. In case of intens respiratory protective device that is independent of circulating air. 	7.
The following constituent is the only constituent of the product which has a PEL, Trexposure limit. At this time, the remaining constituent has no known exposure limits. 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 Ster TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEIc 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 basi. • 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. Avoid contact with the eyes and skin. Breathing equipment: In case of brief exposure or low pollution use respiratory filter de	
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· Protection of hands:	ive or longer exposure ı
Protective gloves	

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.

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• 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:



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Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and c	hemical properties
General Information	
Appearance:	
Form:	Liquid
Color:	Clear
Odor:	Methanol
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	-97.8 °C (-144 °F)
Boiling point/Boiling range:	64 °C (147.2 °F)
Flash point:	11 °C (51.8 °F)
Flammability (solid, gaseous):	Highly flammable.
Auto igniting:	455 °C (851 °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:	5.5 Vol %
Upper:	44 Vol %
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)
Density at 20 °C (68 °F):	0.79235 g/cm³ (6.61216 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.

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Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	98.7 %	
VOC content:	98.74 %	
	782.3 g/l / 6.53 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 (Acu	te Toxicity	Estimate)
	LD50	101 mg/kg
Dermal	LD50	304 mg/kg

Inhalative LC50/4h 3.04 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: Toxic

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)	
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.	
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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.

• Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT, IMDG, IATA	UN1993	
· UN proper shipping name		
$\cdot DOT$	Flammable liquids, n.o.s. (Methanol)	
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Methanol)	
· Transport hazard class(es)		
·DOT		
· Class	3 Flammable liquids	

[·] Uncleaned packagings:

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IMDG, IATA	
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 cod	
EMS Number:	F-E,S-D
Stowage Category	В
Transport in bulk according to Annex II o	f
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. (METHANOL), 3, II

15 Regulatory information

- \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

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Trade name: Phenolphthalein 1% w/v in Methanol Solution

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· Proposition 65

 \cdot 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.

 \cdot Chemicals known to cause developmental toxicity:

CAS: 67-56-1 Methanol

· Carcinogenic categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· 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. Toxic if swallowed, in contact with skin or if inhaled. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. Causes 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. 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

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Trade name: Phenolphthalein 1% w/v in Methanol Solution

	(Contd. of page 10)
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with v	watar/showar
IF INHALED: Remove person to fresh air and keep comfortable for breathing.	valer/shower.
IF initialed. Remove person to fresh an ana keep comfortable for breaking. IF exposed or concerned: Get medical advice/attention.	
Call a poison center/doctor if you feel unwell.	
Take off immediately all contaminated clothing and wash it before reuse.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internation	al 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 c	ontained in this preparation
<i>Exceptions can be made by the authorities in certain cases.</i>	oniainea in inis preparation.
• 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 co	nstitute a guarantee for any
specific product features and shall not establish a legally valid contractual relations	nip.
• Department issuing SDS: Environment protection department.	
· Contact:	
Date of Preparation / Last Revision:	
Date of Preparation / Last Revision: • Date of preparation / last revision	
Date of Preparation / Last Revision: • Date of preparation / last revision Revision 0.1, 06/18/2024: Reviewed SDS for accuracy. MH/STN	
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- Toxic to Reproduction 2: Reproductive toxicity Category 2 Specific Target Organ Toxicity Single Exposure 1: Specific target organ toxicity (single exposure) Category 1 * Data compared to the previous version altered.