Printing date 05/29/2024

Reviewed on 05/29/2024

Identification	
Product identifier	
Trade name: <u>Phenolphthalein</u> <u>1% w/v in Acetone</u>	
Article number: SPE269	
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 Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	
Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 1B	H350 May cause cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
GHS07	
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure	3 H336 May cause drowsiness or dizziness.
Label elements GHS label elements The product is classified and Hazard pictograms	d labeled according to the Globally Harmonized System (GHS)
GHS02 GHS07 GHS08	
011002 011007 011000	
Signal word Danger	

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Trade name: Phenolphthalein 1% w/v in Acetone

	(Contd. of page 1)
Phenolphthale	
Hazard statem	
	able liquid and vapor.
	s eye irritation.
Suspected of c	ausing genetic defects.
May cause can	icer.
Suspected of d	lamaging fertility or the unborn child.
May cause dro	owsiness or dizziness.
Precautionary	y statements
Obtain special	l instructions before use.
Do not handle	until all safety precautions have been read and understood.
Keep away fro	om heat/sparks/open flames/hot surfaces No smoking.
Ground/bond	container and receiving equipment.
	-proof electrical/ventilating/lighting/equipment.
Use only non-s	
	onary measures against static discharge.
	ng dust/fume/gas/mist/vapors/spray
	hly after handling.
	oors or in a well-ventilated area.
•	ve gloves/protective clothing/eye protection/face protection.
	hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
•	Remove person to fresh air and keep comfortable for breathing.
	use cautiously with water for several minutes. Remove contact lenses, if present and easy to do
Continue rinsi	
	concerned: Get medical advice/attention.
	center/doctor if you feel unwell.
	n persists: Get medical advice/attention.
	: Use CO2, powder or water spray to extinguish.
	l-ventilated place. Keep container tightly closed.
	l-ventilated place. Keep cool.
Store locked up	
	<i>p.</i> ntents/container in accordance with local/regional/national/international regulations.
Classification	
NFPA ratings	
INT A rungs	(scale 0 - 4)
	Health = 2
	Fire = 3
	Reactivity = 0
	icación i grande a construction de la const
HMIS-ratings	$s(scale \ 0 - 4)$
HEALTH 2	Health = 2
FIRE 3	Fire = 3
REACTIVITY 0	Reactivity = 0
Other hazards	
	T and vPvB assessment
PBT: Not appl	
vPvB: Not app	plicable.

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Trade name: Phenolphthalein

1% w/v in Acetone

(Contd. of page 2)

98.736%

1.264%

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-64-1 Acetone

CAS: 77-09-8 Phenolphthalein

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. If symptoms persist, consult a doctor.
- 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.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: 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: 67-64-1 Acetone

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Trade name: Phenolphthalein 1% w/v in Acetone

CAS: 77-09-8 Phenolphthalein	(Contd. of page 3) 4 mg/m ³
· PAC-2:	
CAS: 67-64-1 Acetone	3200* ppm
CAS: 77-09-8 Phenolphthalein	44 mg/m ³
· PAC-3:	
CAS: 67-64-1 Acetone	5700* 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 section 7.

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

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

CAS: 67-64-1 Acetone

- PEL Long-term value: 2400 mg/m³, 1000 ppm
- REL Long-term value: 590 mg/m³, 250 ppm
- TLV Short-term value: 500 ppm
 - Long-term value: 250 ppm
 - A4, BEI

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Color:

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Trade name: Phenolphthalein 1% w/v in Acetone

(Contd. of page 4)

· Ingredients with biological	l limit values:
CAS: 67-64-1 Acetone	
BEI 25 mg/L	
LD50 Intraperitoneal.	: urine
<i>Time: end of shift</i>	
LD50: Acetone (nonsp	
• Additional information: The	he lists that were valid during the creation were used as basis.
· Exposure controls	
· Personal protective equipm	
· General protective and hyg	
Keep away from foodstuffs,	
2	iled and contaminated clothing.
Wash hands before breaks	
Store protective clothing se	
Avoid contact with the eyes	
Avoid contact with the eyes	s ana skin.
• Breathing equipment:	n lou nollution was nominatom filten douise. In such of interview on low or
	r low pollution use respiratory filter device. In case of intensive or longer exposure use
• Protection of hands:	ce that is independent of circulating air.
Due to missing tests no rec chemical mixture. Selection of the glove mate • Material of gloves The selection of the suitabl varies from manufacturer to the glove material can not • Penetration time of glove 1	be impermeable and resistant to the product/ the substance/ the preparation. commendation to the glove material can be given for the product/ the preparation/ the rial on consideration of the penetration times, rates of diffusion and the degradation be gloves does not only depend on the material, but also on further marks of quality and to manufacturer. As the product is a preparation of several substances, the resistance of be calculated in advance and has therefore to be checked prior to the application.
Tightly sealed g	
9 Physical and chemica	l properties
· Information on basic phys	ical and chemical properties
· General Information	
· Appearance:	
Form:	Liquid
Color	Clear

Liquid Clear

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Trade name: Phenolphthalein

1% w/v in Acetone

	(Contd. of page
· Odor:	Acetone
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/Melting range:	-94.7 °C (-138.5 °F)
Boiling point/Boiling range:	55 °C (131 °F)
· Flash point:	-17 °C (1.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	465 °C (869 °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:	2.6 Vol %
Upper:	13 Vol %
· Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
· Vapor pressure at 50 °C (122 °F):	800 hPa (600 mm Hg)
· Density at 20 °C (68 °F):	0.79112 g/cm ³ (6.6019 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/water	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	98.7 %
VOC content:	0.00 %
	0.0 g/l / 0.00 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.

(Contd. on page 7)

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Trade name: Phenolphthalein

1% w/v in Acetone

(Contd. of page 6)

2B

R

· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 77-09-8 Phenolphthalein

· NTP (National Toxicology Program)

CAS: 77-09-8 Phenolphthalein

· 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.

• Other adverse effects No further relevant information available.

13 Disposal considerations

- \cdot Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

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Trade name: Phenolphthalein 1% w/v in Acetone

(Contd. of page 7)

· Uncleaned packagings:

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

UN-Number		
DOT, IMDG, IATA	UN1993	
UN proper shipping name		
DOT	Flammable liquids, n.o.s. (Acetone)	
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Acetone)	
Transport hazard class(es)		
DOT		
RAMARE COD		
Class	3 Flammable liquids	
Label	3	
IMDG, IATA		
Class Label	3 Flammable liquids 3	
Packing group DOT, IMDG, IATA	II	
Environmental hazards:	Not applicable.	
Special precautions for user	Warning: Flammable liquids	
Hazard identification number (Kemler code):		
EMS Number:	F-E, <u>S-E</u>	
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	

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(Contd. of page 8)

ACTIVE

ACTIVE

Trade name: Phenolphthalein

1% w/v in Acetone

• UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, II

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 ingredients is listed.

• Section 313 (Specific toxic chemical listings):

CAS: 77-09-8 Phenolphthalein

· TSCA (Toxic Substances Control Act):

Acetone

Phenolphthalein

· Hazardous Air Pollutants

None of the ingredients is listed.

· 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:

None of the ingredients is listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

CAS: 67-64-1 Acetone

· TLV (Threshold Limit Value)

CAS: 67-64-1 Acetone

· 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: Acetone Phenolphthalein

(Contd. on page 10)

Ι

A4

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Reviewed on 05/29/2024

Trade name: Phenolphthalein 1% w/v in Acetone

(Contd. of page 9) · Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. · 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. Avoid breathing dust/fume/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. 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 INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. 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. · 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 1.2, 05/29/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 09-19-2016: creation date for SDS. STN 05/29/2024*
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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[–] US

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Trade name: Phenolphthalein 1% w/v in Acetone

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) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative	
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) PBT: Persistent, Bioaccumulative and Toxic	
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) PBT: Persistent, Bioaccumulative and Toxic	
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VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic	
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	
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
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 3: Specific target organ toxicity (single exposure) – Category 3	
• * Data compared to the previous version altered.	
	US -