Printing date 05/31/2024

Reviewed on 05/31/2024

nting date 05/31/2024	Reviewed on 05/3
Identification	
Product identifier	
Trade name: <u>Phenolphthalein</u> 1% W/V in 70% IPA	
Article number: SPX240	
Details of the supplier of the safety data s Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	wheet
Information department: Technical Coordinator Sherman Nelson shermann@aquasolution Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	s.org
Hazard(s) identification	
Classification of the substance or mixture	2
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 ch
GHS07	
Eye Irritation 2A	H319 Causes serious eye irritation.
-	xposure 3 H336 May cause drowsiness or dizziness.
• Label elements • GHS label elements The product is classij • Hazard pictograms	fied and labeled according to the Globally Harmonized System (G
V V V	
GHS02 GHS07 GHS08	
GHS02 GHS07 GHS08 • Signal word Danger • Hazard-determining components of label Isopropanol	ling:

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Trade name: Phenolphthalein 1% W/V in 70% IPA

 Phenolphthalein 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 ear Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. 	
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IF exposed or concerned: Get medical advice/attention.	<i>sy 10 ao</i> .
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.	
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 3	
$\frac{2}{Reactivity} = 0$	
· HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 3 Fire = 3	
REACTIVITY 0 Reactivity = 0	
· Other hazards	
• Results of PBT and vPvB assessment	
• PBT: Not applicable.	
• <i>vPvB</i> : Not applicable.	
······································	

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Trade name: Phenolphthalein 1% W/V in 70% IPA

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

· Dangerous components:				
CAS: 67-63-0 Isopropanol	64.779%			
CAS: 77-09-8 Phenolphthalein	1.179%			
· Table of Nonhazardous Ingredients				
CAS: 7732-18-5 Water	34.042%			

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.
- 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: 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.*

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Trade name: Phenolphthalein 1% W/V in 70% IPA

· Protective Action Criteria for Chemicals	(Contd. of page 3
· PAC-1:	
CAS: 67-63-0 Isopropanol	400 ppm
CAS: 77-09-8 Phenolphthalein	4 mg/m ³
· PAC-2:	
CAS: 67-63-0 Isopropanol	2000* ppm
CAS: 77-09-8 Phenolphthalein	44 mg/m ³
· PAC-3:	
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 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: 67-63-0 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

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Trade name: Phenolphthalein 1% W/V in 70% IPA

(Contd. of page 4)

-	redients with biological limit values:
	S: 67-63-0 Isopropanol
BEI	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
Add	LD50: Acetone (background, nonspecific) litional information: The lists that were valid during the creation were used as basis.
	posure controls
	sonal protective equipment:
	neral protective and hygienic measures:
	p away from foodstuffs, beverages and feed. nediately remove all soiled and contaminated clothing.
	sh hands before breaks and at the end of work.
	re protective clothing separately.
	id contact with the eyes.
	id contact with the eyes and skin.
	athing equipment:
	ase of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	piratory protective device that is independent of circulating air.
	tection of hands:
	Protective gloves
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation. It to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the mical mixture.
Sele	ection of the glove material on consideration of the penetration times, rates of diffusion and the degradation terial of gloves
vari the	selection of the suitable gloves does not only depend on the material, but also on further marks of quality an ies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance glove material can not be calculated in advance and has therefore to be checked prior to the application. tetration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to be
	erved.
Eye	protection:
CU	Tightly sealed goggles
Bod	by protection: Protective work clothing
Ph	ysical and chemical properties
	ormation on basic physical and chemical properties

- · General Information · Appearance: Form:
- Color:

Liquid Colorless

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Trade name: Phenolphthalein

1%	W/V	in	70%	IPA
1%	W/V	in	70%	IPA

	(Contd. of page 5
· Odor:	Alcohol-like
· 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:	2 Vol %
Upper:	12 Vol %
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
• Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	64.8 %
Water:	34.0 %
VOC content:	64.78 %
	647.8 g/l / 5.41 lb/gal
Solids content:	0.0 %
• 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.

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Trade name: Phenolphthalein 1% W/V in 70% IPA Reviewed on 05/31/2024

(Contd. of page 6)

· 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 (Intern	national Agency for Research on Cancer)		
	Isopropanol	3	
CAS: 77-09-8	8 Phenolphthalein	2B	
· NTP (National Toxicology Program)			
CAS: 77-09-8	8 Phenolphthalein	R	
· OSHA-Ca (Occupational Safety & Health Administration)			
None of the i	igredients 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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- · 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.

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Trade name: Phenolphthalein 1% W/V in 70% IPA

• Recommended cleansing agent: Water, if necessary with cleansing agents.

Transport information	
UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT	Flammable liquids, n.o.s. (Isopropanol
IMDG, IATA) FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Transport hazard class(es)	
DOT	
RAMABE LOUD	
Class	3 Flammable liquids
Label	3
Class Label	3 Flammable liquids 3
	5
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code): EMS Number:	55 F-E,S-E
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
Limited quantities (LQ)	1L

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Trade i	name:	Phe	nolp	hth	alein	
		1%	W/V	in	70%	IPA

	(Contd. of page 8)	
· 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. (ISOPROPANOL), 3, II	

15 Regulatory information

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

· Section 355 (extremel	y hazardous	substances).
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None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

CAS: 67-63-0 Isopropanol

CAS: 77-09-8 Phenolphthalein

· TSCA (Toxic Substances Control Act):

Isopropanol	ACTIVE
Water	ACTIVE
Phenolphthalein	ACTIVE
· 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)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

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). (Contd. on page 10)

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Trade name: Phenolphthalein 1% W/V in 70% IPA Reviewed on 05/31/2024

(Contd. of page 9) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: Isopropanol Phenolphthalein · 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/eve 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.

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Trade name: Phenolphthalein 1% W/V in 70% IPA

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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, 05/30/2024: Reviewed SDS for accuracy. MH/STN Revision 0.0, 08-30-2016: Creation date for SDS. STN 05/31/2024 · 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) 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.