Printing date 05/10/2024

Reviewed on 05/10/2024

Identification	
Product identifier	
• Trade name: <u>Phenolphthalein 0.1% w</u> in 50% Isopropanol	<u>/v</u>
• Article number: GEN156	
Details of the supplier of the safety dat Manufacturer/Supplier: Aqua Solutions, Inc. 6913 Highway 225 DEER PARK, TX 77536 USA 800-256-2586	a sheet
• Information department: Technical Coordinator Sherman Nelson shermann@aquasoluti • Emergency telephone number: Chemtrec: 800-424-9300 Canutec: 613-996-6666	ions.org
Hazard(s) identification	
· Classification of the substance or mixt	ure
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
GHS07	
Eye Irritation 2A	H319 Causes serious eye irritation.
-	Exposure 3 H336 May cause drowsiness or dizziness.
• Label elements • GHS label elements The product is clas • Hazard pictograms	ssified and labeled according to the Globally Harmonized System (GHS)
GHS02 GHS07 GHS08	
GHS02 GHS07 GHS08 • Signal word Danger	
• Signal word Danger • Hazard-determining components of la	beling:
• Signal word Danger	beling:

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Trade name: Phenolphthalein 0.1% w/v in 50% Isopropanol

(Contd. of page 1)
· Hazard statements
Highly flammable liquid and vapor.
Causes serious eye irritation.
Suspected of causing 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.
· Classification system:
· NFPA ratings (scale 0 - 4)
Health = 2
Fire = 3
2 <i>Q Reactivity</i> = 0
· HMIS-ratings (scale 0 - 4)
HEALTH 2 $Health = 2$
\square
FIRE 3 Fire = 3
REACTIVITY O Reactivity = 0
Other hazards
· Results of PBT and vPvB assessment
· PBT : Not applicable.
• vPvB: Not applicable.
2 Composition linformation on ingradiants
3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

(Contd. on page 3)

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Trade name: Phenolphthalein 0.1% w/v in 50% Isopropanol

	(Contd. of page 2)
· Dangerous components:	
CAS: 67-63-0 Isopropanol	43.984%
CAS: 77-09-8 Phenolphthalein	0.112%
· Table of Nonhazardous Ingredients	
CAS: 7732-18-5 Water	55.904%

4 First-aid measures

- \cdot 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.
- \cdot 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.	
· Protective Action Criteria for Chemicals	
· PAC-1:	
CAS: 67-63-0 Isopropanol	400 ppm
CAS: 77-09-8 Phenolphthalein	$4 mg/m^3$
	(Contd. on page 4)

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	(Contd. of page 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

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	S: 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
· Ingr	edients with biological limit values:
CAS	S: 67-63-0 Isopropanol
BEI	40 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift at end of workweek
	LD50: Acetone (background, nonspecific)
	(Contd. on page 5

[•] 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:

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Trade name: Phenolphthalein 0.1% w/v in 50% Isopropanol

• Additional information: The	(Contd. of page 4) (Contd. of page 4)
• Exposure controls	0
· Personal protective equipment	t:
· General protective and hygier	
Keep away from foodstuffs, be	
Immediately remove all soiled	and contaminated clothing.
Wash hands before breaks and	
Store protective clothing sepa	rately.
Avoid contact with the eyes.	
Avoid contact with the eyes and • Breathing equipment:	a skin.
	w pollution use respiratory filter device. In case of intensive or longer exposure use
	hat is independent of circulating air.
• Protection of hands:	
Protective gloves	
The glove material has to be i	npermeable and resistant to the product/ the substance/ the preparation.
	mendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.	
Selection of the glove materia	on consideration of the penetration times, rates of diffusion and the degradation
• Material of gloves	
	loves does not only depend on the material, but also on further marks of quality and
	anufacturer. As the product is a preparation of several substances, the resistance of
	calculated in advance and has therefore to be checked prior to the application.
• Penetration time of glove may	
observed.	e has to be found out by the manufacturer of the protective gloves and has to be
• Eye protection:	
Lyc protection.	
Tightly sealed gogg	les
• Body protection: Protective w	ork clothing
bouy protection. I rotective w	sin cionang
9 Physical and chemical p	roperties
• Information on basic physica	and chemical properties
• General Information • Appearance:	
· Appearance: Form:	Liquid
Color:	Clear
· Odor:	de l'alcool
0407.	
	l
• Odor threshold:	Not determined.
L	(Contd. on page 6)

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	(Contd. of page
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 82 °C (179.6 °F)
· 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: Upper:	2 Vol % 12 Vol %
· Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
· Density at 20 °C (68 °F): · Relative density · Vapor density · Evaporation rate	0.90531 g/cm³ (7.55481 lbs/gal) Not determined. Not determined. Not determined.
· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	e r): Not determined.
· Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: Organic solvents: Water: VOC content:	44.0 % 55.9 % 43.98 % 398.2 g/l / 3.32 lb/gal
Solids content:	0.1 %
• 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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(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 (Inter	national Agency for Research on Cancer)	
CAS: 67-63-) Isopropanol	3
CAS: 77-09-	8 Phenolphthalein	2B
· NTP (Nation	al Toxicology Program)	
CAS: 77-09-	8 Phenolphthalein	R
· OSHA-Ca (C	Occupational Safety & Health Administration)	
None of the i	ngredients 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

- · Waste treatment methods
- · Recommendation:

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

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(Contd. of page 7)

· 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. (Isopropanol
IMDG, IATA) FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Transport hazard class(es)	
DOT	
RAMAGE CODO	
Class	3 Flammable liquids
Label IMDG, IATA	3
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:	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

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	in 50% Isopropanol

	(Contd. of page 3
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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

Section 333 (e	extremely hazardous substances):	
	gredients is listed.	
Section 313 (S	Specific toxic chemical listings):	
CAS: 67-63-0		
CAS: 77-09-8	CAS: 77-09-8 Phenolphthalein	
TSCA (Toxic	Substances Control Act):	
Water		ACTIVE
Isopropanol		ACTIVE
Phenolphthalein		ACTIVE
Hazardous Ai	r Pollutants	1
None of the in	gredients is listed.	
Proposition 6:	5	
Chemicals kn	own to cause cancer:	
CAS: 77-09-8	Phenolphthalein	
Chemicals kn	own to cause reproductive toxicity for females:	
None of the in	gredients is listed.	
Chemicals kn	own to cause reproductive toxicity for males:	
None of the in	gredients is listed.	
Chemicals kn	own to cause developmental toxicity:	
None of the in	gredients is listed.	
Carcinogenic	categories	
-	mental Protection Agency)	
None of the in	gredients is listed.	
TIV (Thereal	ld Limit Value)	
ILV (Inresno		
CAS: 67-63-0	Isopropanol	A_{4}

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Trade name: Phenolphthalein 0.1% w/v in 50% Isopropanol

(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 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. · 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, 05/08/2024: Rewiewed SDS for accuracy. MH/STN

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	(Contd. of page 10
Revision 0.0. 08-04-2016: creation date for SDS. STN	
05/10/2024	
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	
Carcinogenicity 2: Carcinogenicity – Category 2	
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.	