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Reviewed on 04/03/2023

T T ,+ (+ ,+	
Identification	
Product identifier	
Trade name: Phenolphthalein	
0.1% w/v in Acetone	
Article number: EQS240	
Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Aqua Solutions, Inc.	
6913 Highway 225 DEER PARK, TX 77536	SOLUTIONS
USA	
800-256-2586	
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	
Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
GHS07	
Eye Irritation 2A Specific Target Organ Toxicity - Single Exposure 3	H319 Causes serious eye irritation. 3 H336 May cause drowsingss or dizzingss
Label elements	11550 Muy cause arowsiness of alguess.
	labeled according to the Globally Harmonized System (GHS).
Hazard pictograms	
$\land \land \land$	
GHS02 GHS07 GHS08	
Signal word Danger	
Hazard-determining components of labeling: Acetone	
Phenolphthalein	

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Hazard state	
0 10	nable liquid and vapor.
	us eye irritation.
	causing cancer.
Suspected of	damaging fertility or the unborn child.
May cause d	rowsiness or dizziness.
Precautional	y statements
	al instructions before use.
Do not hand	le until all safety precautions have been read and understood.
Keep away fi	om heat/sparks/open flames/hot surfaces No smoking.
Ground/bond	l container and receiving equipment.
Use explosio	n-proof electrical/ventilating/lighting/equipment.
Use only non	-sparking tools.
Take precaut	ionary measures against static discharge.
	ing dust/fume/gas/mist/vapors/spray
	ghly after handling.
	doors or in a well-ventilated area.
•	ive gloves/protective clothing/eye protection/face protection.
	hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P: Remove person to fresh air and keep comfortable for breathing.
	inse cautiously with water for several minutes. Remove contact lenses, if present and easy to
Continue rin	
	r concerned: Get medical advice/attention.
	a center/doctor if you feel unwell.
	on persists: Get medical advice/attention.
	e: Use CO2, powder or water spray to extinguish.
	<i>ll-ventilated place. Keep container tightly closed.</i>
	ll-ventilated place. Keep cool.
Store locked	
	<i>mp.</i> ontents/container in accordance with local/regional/national/international regulations.
Classificatio	
	rs (scale 0 - 4)
	s (seare 0 - 4)
	Health = 2
	Fire = 3
$<2 \\ 0$	Reactivity = 0
	gs (scale 0 - 4)
HEALTH 2	Health = 2
FIRE	Fire = 3
REACTIVITY	Reactivity = 0
Other hazard	
	3T and vPvB assessment
<b>PBT:</b> Not ap	
vPvB: Not ap	iplicable.
Compositi	on/information on ingredients

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

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0.1% w/v in Acetone

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· Dangerous co	nponents:	
CAS: 67-64-1	Acetone	99.873%
CAS: 77-09-8	Phenolphthalein	0.127%

## 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.
- $\cdot$  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.

- $\cdot$  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

Environmenta	<b>I precautions:</b> Do not allow to enter sewers/ surface or ground water.	
Methods and	naterial for containment and cleaning up:	
	quid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
Dispose conta	minated material as waste according to item 13.	
Ensure adeque		
Reference to a	ther sections	
See Section 7	for information on safe handling.	
See Section 8 j	for information on personal protection equipment.	
See Section 13	for disposal information.	
	for disposal information. ion Criteria for Chemicals	
Protective Act	ion Criteria for Chemicals	200 pp
<i>Protective Act</i> <i>PAC-1:</i> <i>CAS:</i> 67-64-1	ion Criteria for Chemicals	200 pp 4 mg/n
<i>Protective Act</i> <i>PAC-1:</i> <i>CAS:</i> 67-64-1	ion Criteria for Chemicals Acetone	

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Trade name: Phenolphthalein

0.1% w/v in Acetone

	(Contd. of page 3)
CAS: 77-09-8 Phenolphthalein	44 mg/m <sup>3</sup>
· PAC-3:	
CAS: 67-64-1 Acetone	5700* ppm
CAS: 77-09-8 Phenolphthalein	260 mg/m <sup>3</sup>

## 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 about protection against exposions and fre 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 item 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/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: 500 ppm Long-term value: 250 ppm A4, BEI

#### · Ingredients with biological limit values:

#### CAS: 67-64-1 Acetone

BEI 25 mg/L

LD50 Intraperitoneal: urine Time: end of shift LD50: Acetone (nonspecific)

• Additional information: The lists that were valid during the creation were used as basis.

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· Exposure controls

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#### Trade name: Phenolphthalein

0.1% w/v in Acetone

(Contd. of page 4)

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. Avoid contact with the eyes and skin.

#### • 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

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Odorless	
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)	

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Trade	name:	Phenolphthalein		
		0.1%	w/v in	Acetone

	(Contd. of page :
· Flash point:	-17 °C (1.4 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	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)
Density at 20 °C (68 °F):	0.79011 g/cm <sup>3</sup> (6.59347 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	e <b>r):</b> Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	99.9 %
VOC content:	0.00 %
	0.0 g/l / 0.00 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.
- · Hazardous decomposition products: No dangerous decomposition products known.

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0.1% w/v in Acetone

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· 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 cal	lculation methods for preparation
	iculation methods for preparation
Irritant	culation methods for preparation
Irritant	culation methods for preparation
	culation methods for preparation
Irritant • Carcinogenic categories	2
Irritant • Carcinogenic categories • IARC (International Agency for Research on Cancer)	
Irritant         • Carcinogenic categories         • IARC (International Agency for Research on Cancer)         CAS: 77-09-8         Phenolphthalein	
Irritant         • Carcinogenic categories         • IARC (International Agency for Research on Cancer)         CAS: 77-09-8       Phenolphthalein         • NTP (National Toxicology Program)	2

## **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.

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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UN-Number DOT, IMDG, IATA	UN1993
UN proper shipping name DOT IMDG, IATA	Flammable liquids, n.o.s. (Acetone) FLAMMABLE LIQUID, N.O.S. (Acetone)
Transport hazard class(es)	
DOT	
RAMARE LOUD	
Class Label	3 Flammable liquids 3
IMDG, IATA	5
Class	3 Flammable liquids
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:	<i>F-E,S-E</i>
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
Excepted quantities (EQ)	Code: E2
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	Maximum net quantity per outer packaging: 500 ml UN 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE), 3, II

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## **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: 77-09-8 Phenolphthalein

· TSCA (Toxic Substances Control Act):

Acetone

Phenolphthalein

· Hazardous Air Pollutants

None of the ingredients is listed.

· 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.

· 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
Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. Ι

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#### Trade name: Phenolphthalein 0.1% w/v in Acetone

	(Contd. of page 9)
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 Continue rinsing.	and easy to do.
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	5.
· 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 gue specific product features and shall not establish a legally valid contractual relationship.	arantee for any
· Department issuing SDS: Environment protection department.	
· Contact:	

\*

· Contact: · Date of preparation / last revision Revision 1.0 03/31/2023 Reviewed SDS for accuracy. STN Revision 0.0 06-02-2016: Creation date for SDS. STN 04/03/2023 • 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

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#### Trade name: Phenolphthalein 0.1% w/v in Acetone

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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.