Printing date 04/05/2021

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Reviewed on 04/05/2021

inting date 04	4/03/2021	Reviewed on 04/05/20
1 Identifica	ution	
· Product ide		
	e: Phenolphthalein	
· Iraut num	Indicator Solution	UFIIE.
	nber: 220-01 1 of the substance / the mixture Laboratory ch	emicals
• Manufactu OFI Testing		
techservice Technical ( Sherman N • Emergency Chemtrec:	<b>n department:</b> s@ofite.com Coordinator elson sherman@aquasolutions.org p <b>telephone number:</b> 800-424-9300 13-996-6666	
2 Hazard(s	) identification	
· Classificati	ion of the substance or mixture	
	GHS02 Flame	
Flam. Liq.	3 H226 Flammable liquid and vapor.	
	GHS08 Health hazard	
Muta. 2	H341 Suspected of causing genetic defects.	
Carc. 1B	H350 May cause cancer.	
Repr. 2	H361 Suspected of damaging fertility or the	unborn child.
	GHS07	
Eye Irrit. 2.	A H319 Causes serious eye irritation.	
· Label elem · GHS label · Hazard pic	elements The product is classified and labeled	according to the Globally Harmonized System (GHS)
GHS02	GHS07 GHS08	
· Signal wor	<b>d</b> Danger	
	termining components of labeling:	
Phenolphth		
		(Contd. on page

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## Trade name: Phenolphthalein Indicator Solution

	(Contd. of page 1
• Hazard statem	
Flammable liq	
Causes serious	
	ausing genetic defects.
May cause can	
	amaging fertility or the unborn child.
· Precautionary	
	instructions before use.
	until all safety precautions have been read and understood.
	m heat/sparks/open flames/hot surfaces No smoking.
Keep container	
	container and receiving equipment.
	proof electrical/ventilating/lighting/equipment.
Use only non-s	parking tools.
Take precautio	nary measures against static discharge.
Wash thorough	ily after handling.
Wear protectiv	e gloves/protective clothing/eye protection/face protection.
If on skin (or h	air): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rin	se cautiously with water for several minutes. Remove contact lenses, if present and easy to d
Continue rinsin	1g.
IF exposed or o	concerned: Get medical advice/attention.
If eye irritation	n persists: Get medical advice/attention.
	Use for extinction: CO2, powder or water spray.
	-ventilated place. Keep cool.
Store locked up	
	tents/container in accordance with local/regional/national/international regulations.
· Classification	
· NFPÅ ratings	
	Health = 2
	Fire = 1
	Reactivity = 0
• HMIS-ratings	(scale 0 - 4)
_	
HEALTH 2	Health = 2
	Fire = 1
REACTIVITY 0	Reactivity = 0
• Other hazards	
	and vPvB assessment
• <b>PBT:</b> Not appl	
• <b>vPvB</b> : Not app	
, <b>1</b> , <b>2</b> , <b>1</b>	
3 Composition	n/information on ingredients
	acterization: Mixtures
• Description: M	lixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
	1,2 Propanediol (Propylene Glycol)	35.291%
CAS: 1569-01-3	Propylene Glycol n-Propyl Ether	30.318%
CAS: 77-09-8	Phenolphthalein	1.023%
	(Con	td. on page 3)

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33.368%

· Table of Nonhazardous Ingredients

CAS: 7732-18-5 Water

## 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: Use fire fighting measures that suit the environment.
- · 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

	ve equipment. Keep unprotected persons away. a <b>l precautions:</b> 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 item 13.	
-	•	
	ate ventilation.	
Reference to a		
	for information on safe handling.	
Sac Section 9		
see section o	for information on personal protection equipment.	
	for information on personal protection equipment. 3 for disposal information.	
See Section 13		
See Section 13	<i>B for disposal information.</i>	
See Section 13 <b>Protective Act</b>	<i>B for disposal information.</i>	30 mg/n
See Section 13 Protective Act PAC-1:	B for disposal information. ion Criteria for Chemicals	30 mg/n 4 mg/m <sup>3</sup>
See Section 13 Protective Act PAC-1:	B for disposal information. <b>tion Criteria for Chemicals</b> 1,2 Propanediol (Propylene Glycol)	~
See Section 13 Protective Act PAC-1: CAS: 77-09-8	B for disposal information. tion Criteria for Chemicals 1,2 Propanediol (Propylene Glycol) Phenolphthalein	

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· PAC-3:		
	1,2 Propanediol (Propylene Glycol)	7,900 mg/m <sup>3</sup>
CAS: 77-09-8	Phenolphthalein	260 mg/m³

## 7 Handling and storage

· Handling:

- · Precautions for safe handling
- *Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.*
- 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: No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 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 other constituents have no known exposure limits.

### 1,2 Propanediol (Propylene Glycol)

TWA Short-term value: 10 mg/m<sup>3</sup> weel

WEEL Long-term value: 10 mg/m<sup>3</sup>

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

- · 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.

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.

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• 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 c General Information	hemical properties	
Appearance:		
Form:	Liquid	
Color:	Clear	
Odor:	Mild	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. 100 °C (212 °F)	
Flash point:	103 °C (217.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	1.3 Vol %	
Upper:	10.6 Vol %	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	

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#### Trade name: Phenolphthalein Indicator Solution

		(Contd. of page
• Density at 20 •C (68 •F):	0.97432 g/cm <sup>3</sup> (8.1307 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
$\cdot$ Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	33.4 %	
VOC content:	0.00 %	
	0.0 g/l / 0.00 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.
- · 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 (Interna	utional Agency for Research on Cancer)	
	CAS: 77-09-8	Phenolphthalein	2B
ſ	· NTP (Nationa	l Toxicology Program)	
	CAS: 77-09-8	Phenolphthalein	R
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## · 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**

· 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.

## 14 Transport information

UN-Number		
DOT, ADN, IMDG, IATA	Not regulated	
UN proper shipping name DOT, ADN, IMDG, IATA	Not regulated	
Transport hazard class(es)		
DOT, ADN, IMDG, IATA		
Class	Not regulated	
Packing group		
DOT, IMDG, IATA	Not regulated	
Environmental hazards:		
Marine pollutant:	Yes	
Special precautions for user	Not applicable.	
		(Contd. on page

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• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Not regulated

# **15 Regulatory information**

· UN "Model Regulation":

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

Ione of the ingredients is listed.   ection 313 (Specific toxic chemical listings):   CAS: 77-09-8 Phenolphthalein   SCA (Toxic Substances Control Act):   .2 Propanediol (Propylene Glycol)   Vater   Propylene Glycol n-Propyl Ether	
AS: 77-09-8 Phenolphthalein SCA (Toxic Substances Control Act): 2 Propanediol (Propylene Glycol) Vater	
SCA (Toxic Substances Control Act): 2 Propanediol (Propylene Glycol) Vater	
,2 Propanediol (Propylene Glycol) Vater	
Tater	
	ACTIVE
ropylene Glycol n-Propyl Ether	ACTIVE
	ACTIVE
henolphthalein	ACTIVE
lazardous Air Pollutants	
one of the ingredients is listed.	
roposition 65	
hemicals known to cause cancer:	
AS: 77-09-8 Phenolphthalein	
hemicals known to cause reproductive toxicity for females:	
lone of the ingredients is listed.	
hemicals known to cause reproductive toxicity for males:	
lone of the ingredients is listed.	
hemicals known to cause developmental toxicity:	
lone of the ingredients is listed.	
arcinogenic 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* 



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Signal word Danger	(Contd. of page 8)
Hazard-determining components of labeling:	
Phenolphthalein	
Hazard statements	
Flammable liquid and vapor.	
Causes serious eye irritation.	
Suspected of causing genetic defects.	
May cause cancer.	
Suspected of damaging fertility or the unborn child.	
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.	
Keep container tightly closed.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wash thoroughly after handling.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with wo	ater/shower.
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.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use for extinction: CO2, powder or water spray.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	
Dispose of contents/container in accordance with local/regional/national/internationa	l 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 Revision 0.0, 03-17-2021: Creation date for SDS. STN Revision 0.2, updated pH Information. STN Creation date for SDS 07-16-2014 LS Revision 0.1, 05-05-2015: revised to correct emergency contact and technical contact information. STN 04/05/2021 / 1.1 Abberiation and a conservation

• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods

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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
Flam. Liq. 3: Flammable liquids – Category 3
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 1B: Carcinogenicity – Category 1B
Repr. 2: Reproductive toxicity – Category 2
$\cdot$ * Data compared to the previous version altered.
Dura comparea to the previous version allerea.