Printing date 05/09/2024

Reviewed on 05/09/2024

Identification	
· Product identifier	
·	
• Trade name: <u>Phenolphthalein 0.5%</u> in 95% Ethyl Alcohol	
· Article number: ERL274	
· Details of the supplier of the safety data s	sheet 🛛 🕹
· Manufacturer/Supplier:	
Aqua Solutions, Inc. 6913 Highway 225	SOLUTIONS
DEER PARK, TX 77536	
USA	
800-256-2586	
· Information department:	
Technical Coordinator Sherman Nelson shermann@aquasolution	15 Ara
Technical Coordinator	10.01 g
Sherman Nelson shermann@aquasolution	<i>is.org</i>
• Emergency telephone number: Chemtrec: 800-424-9300	
<i>Chemirec:</i> 800-424-9500 <i>Canutec:</i> 613-996-6666	
2 Hazard(s) identification • Classification of the substance or mixtur	e
	e
· Classification of the substance or mixtur	e H225 Highly flammable liquid and vapor.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2	
Classification of the substance or mixture GHS02 Flame	
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard	H225 Highly flammable liquid and vapor.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E. Label elements	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E: Label elements GHS label elements The product is classi	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E. Label elements	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E: Label elements GHS label elements The product is classi	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E: Label elements GHS label elements The product is classi	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Ez Label elements GHS label elements The product is classified to the product of the product is classified. Hazard pictograms 	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E: Label elements GHS label elements The product is classi	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Ez Label elements GHS label elements The product is classified to the product of the product is classified. Hazard pictograms 	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs.
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single E. Label elements GHS label elements The product is classif. Hazard pictograms GHS02 GHS08 Signal word Danger Hazard-determining components of label 	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs. fied and labeled according to the Globally Harmonized System (GHS)
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Ez Label elements GHS label elements The product is classified to the product is classified to the product is classified to the product of the product is classified to the product of the product is classified to the product of the produc	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs. fied and labeled according to the Globally Harmonized System (GHS)
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Ez Label elements GHS label elements The product is classif Hazard pictograms GHS02 GHS08 Signal word Danger Hazard-determining components of label Methanol Phenolphthalein 	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs. fied and labeled according to the Globally Harmonized System (GHS)
 Classification of the substance or mixture GHS02 Flame Flammable Liquids 2 GHS08 Health hazard Carcinogenicity 2 Toxic to Reproduction 2 Specific Target Organ Toxicity - Single Ez Label elements GHS label elements The product is classified to the product is classified to the product is classified to the product of the product is classified to the product of the product is classified to the product of the produc	H225 Highly flammable liquid and vapor. H351 Suspected of causing cancer. H361 Suspected of damaging fertility or the unborn child. xposure 2 H371 May cause damage to the central nervous system a the visual organs. fied and labeled according to the Globally Harmonized System (GHS)

Printing date 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol Reviewed on 05/09/2024

	td. of page 1)
Suspected of causing cancer.	
Suspected of damaging fertility or the unborn child.	
May cause damage to the central nervous system and the visual organs.	
· 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.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Do not eat, drink or smoke when using this product.	
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 exposed or concerned: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
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 = 0	
Fire = 3	
0 0 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH ^{\star1} Health = \star 1	
FIRE 3 Fire = 3	
REACTIVITY O Reactivity = 0	
· Other hazards	
· Results of PBT and vPvB assessment	
· PBT : Not applicable.	
vPvB : Not applicable.	
3 Composition/information on ingredients	
· Chemical characterization: Mixtures	
• Description: Mixture of the substances listed below with nonhazardous additions.	
· Dangerous components:	
- ·	

Dangerous components.		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	94.385%
CAS: 67-56-1	Methanol	4.983%
CAS: 77-09-8	Phenolphthalein	0.633%
		LIC

(Contd. on page 3)

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

(Contd. of page 2)

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.
- 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
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
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: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	1,800 ppm
CAS: 67-56-1	Methanol	530 ppm
CAS: 77-09-8	Phenolphthalein	$4 mg/m^3$
• PAC-2:		
CAS: 64-17-5	Ethyl Alcohol, Absolute 200 Proof	3300* ppm
CAS: 67-56-1	Methanol	2,100 ppm
CAS: 77-09-8	Phenolphthalein	44 mg/m ³
(Contd. on page 4)		

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

	(Contd. of page 3)
· PAC-3:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	15000* ppm
CAS: 67-56-1 Methanol	7200* 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:
- 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 constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

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

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

PEL	Long-term value: 1900 mg/m³, 1000 ppm
DEI	Long town values 1000 malm3 1000 ppm

- REL Long-term value: 1900 mg/m³, 1000 ppm
- *TLV Short-term value: 1000 ppm A3*

CAS: 67-56-1 Methanol

- PEL Long-term value: 260 mg/m³, 200 ppm
- REL Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
- TLV Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI

(Contd. on page 5)

[–] US

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

(Contd. of page 4)

-	edients with biological limit values:
CAS	: 67-56-1 Methanol
BEI	15 mg/L
	LD50 Intraperitoneal: urine
	Time: end of shift
	LD50: Methanol (background, nonspecific)
Addi	tional information: The lists that were valid during the creation were used as basis.
Expe	osure controls
	onal protective equipment:
	eral protective and hygienic measures:
-	away from foodstuffs, beverages and feed.
	ediately remove all soiled and contaminated clothing.
	h hands before breaks and at the end of work.
	e protective clothing separately.
	thing equipment:
	use of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure u
	ratory protective device that is independent of circulating air.
Prot	ection of hands:
Chuu	Protective gloves
The	glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
	to missing tests no recommendation to the glove material can be given for the product/ the preparation/ t
	iical mixture.
Sele	tion of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Mate	erial of gloves
The	selection of the suitable gloves does not only depend on the material, but also on further marks of quality a
	es from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance
	love material can not be calculated in advance and has therefore to be checked prior to the application.
	tration time of glove material
	exact break through time has to be found out by the manufacturer of the protective gloves and has to
	rved.
Eye	protection:
	Tightly sealed goggles
Ľ	
Rod	protection: Protective work clothing
Боау	protection. Trotective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:

Liquid

(Contd. on page 6)

US –

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

	(Contd. of page
Color:	Clear
· Odor:	de l'alcool
	l
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	Undetermined. 78 °C (172.4 °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:	3.5 Vol %
Upper:	19 Vol %
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
• Density at 20 °C (68 °F):	0.79008 g/cm ³ (6.59322 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined. Not determined.
• Evaporation rate	ivoi uelerminea.
• Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	-
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	99.4 %
VOC content:	99.37 %
	785.1 g/l / 6.55 lb/gal
Solids content:	95.0 %
• Other information	No further relevant information available.

10 Stability and reactivity

• *Reactivity* No further relevant information available.

(Contd. on page 7) US

Printing date 05/09/2024

Reviewed on 05/09/2024

(Contd. of page 6)

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

· 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:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

 Oral
 LD50
 2,007 mg/kg

 Dermal
 LD50
 6,021 mg/kg

 Inhalative
 LC50/4h
 60.2 mg/l

· Primary irritant effect:

• on the skin: No irritant effect.

- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

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.

(Contd. on page 8)

1

2B

R

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

(Contd. of page 7)

• 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.*

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

· UN-Number · DOT, IMDG, IATA	UN1993
· UN proper shipping name · DOT · IMDG, IATA	Flammable liquids, n.o.s. (Ethanol, Methanol) FLAMMABLE LIQUID, N.O.S. (Ethanol, Methanol)
· Transport hazard class(es)	
DOT	
RAMARE LODO	
· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
·Label	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,<u>S-E</u></i>
· Stowage Category	В
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

	(Contd. of page 8
· Transport/Additional information:	
·DOT	
• Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
\cdot 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. (ETHANOL METHANOL), 3, II

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: 67-56-1 Methanol	
CAS: 77-09-8 Phenolphthalein	
· TSCA (Toxic Substances Control Act):	
Ethyl Alcohol, Absolute 200 Proof	ACTIVE
Methanol	ACTIVE
Phenolphthalein	ACTIVE
· Hazardous Air Pollutants	
CAS: 67-56-1 Methanol	
· 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:	
CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof	
CAS: 67-56-1 Methanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
	(Contd. on page 10)

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

• TLV (Threshold Limit Value)

(Contd. of page 9)

A3

CAS: 64-17-5 Ethyl Alcohol, Absolute 200 Proof

· 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: Methanol Phenolphthalein · Hazard statements Highly flammable liquid and vapor. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to the central nervous system and the visual organs. · 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. 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 exposed or concerned: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. 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:
- \cdot Date of preparation / last revision

Revision 1.2, 05/08/2024: Rewiewed SDS for accuracy. MH/STN

(Contd. on page 11)

⁻ US

Printing date 05/09/2024

Reviewed on 05/09/2024

Trade name: Phenolphthalein 0.5% in 95% Ethyl Alcohol

Revision 0.0, 08-27-2020: Creation date for SDS. STN 05/09/2024 • Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association 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) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 • * Data compared to the previous version altered.		(Contd. of page 10)
 05/09/2024 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified 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) LC50: Lethal concentration, 50 percent 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 REL: Recommended Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 	Revision 0.0, 08-27-2020: Creation date for SDS. STN	
 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 Inventory of Existing Commercial 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) LC50: Lethal dose, 50 percent 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 REI: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Toxic to Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 		
IMDG: International Maritime Code for Dangerous GoodsDOT: US Department of Transport AssociationIATA: International Air Transport AssociationEINECS: European Inventory of Existing Commercial Chemical SubstancesELINCS: European List of Notified Chemical SubstancesCAS: 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)LC50: Lethal concentration, 50 percentLD50: Lethal dose, 50 percentPBT: Persistent, Bioaccumulative and ToxicvPvB: very Persistent and very BioaccumulativeNIOSH: National Institute for Occupational SafetyOSHA: Occupational Safety & HealthTLV: Threshold Limit ValuePEL: Permissible Exposure LimitBEI: Biological Exposure LimitBEI: Biological Exposure LimitFII: BeI: Biological Exposure LimitFII: Biological Exposure LimitFII: BeI: Biological Exposure LimitFII: Biological Exposure LimitFII: BeI: Biological Exposure LimitFII: Biological Exposure LimitFI		
DOT: US Department of Transport Association IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCCS: 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 FEI: Biological Exposure Limit FIammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Skepting Langer of Safety organ toxicity (single exposure) – Category 2		
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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
 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) LCS0: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 		
 NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 		
 HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 		
 VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2 		
LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
LD50: Lethal dose, 50 percent 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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
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 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2	1 0 5	
REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
BEI: Biological Exposure Limit Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2	1	
Flammable Liquids 2: Flammable liquids – Category 2 Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
Carcinogenicity 2: Carcinogenicity – Category 2 Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2		
Dawa compariou to the providuo version and can		