according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

1 Identification Product identifier · Trade name: Phenolphthalein Indicator · Product code: NC1649168 Recommended use and restriction on use · Recommended use: Laboratory chemicals Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: Fisher Science Education 6771 Silver Crest Road, Nazareth, PA 18064 (800) 955-1177 · Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International) 2 Hazard(s) identification · Classification of the substance or mixture Flam. Lig. 2 H225 Highly flammable liquid and vapor. Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled. Eye Irrit. 2A H319 Causes serious eye irritation. Carc. 2 H351 Suspected of causing cancer. Repr. 2 H361 Suspected of damaging fertility or the unborn child. STOT SE 2 H371 May cause damage to the central nervous system and optic nerve. STOT SE 3 H336 May cause drowsiness or dizziness. Label elements · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms:



· Signal word: Danger

(Cont'd. on page 2)

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Trade name: Phenolphthalein Indicator

· Hazard statement	(Cont'd. of page 1)
H225	Highly flammable liquid and vapor.
	P Harmful if swallowed, in contact with skin or if inhaled.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H371	May cause damage to the central nervous system and optic nerve.
H336	May cause drowsiness or dizziness.
Precautionary sta	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311	IF exposed or concerned: Call a poison center/doctor.
P330	Rinse mouth.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	In case of fire: Use for extinction: Alcohol resistant foam or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards	There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:	
67-63-0 Propan-2-ol	25%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319; STO 	Г SE 3, Н336
64-17-5 Ethanol	15.5%
 Flam. Liq. 2, H225 Eye Irrit. 2A, H319 	
67-56-1 Methanol	9.5%
	(Cont'd. on page 3)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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Trade name: Phenolphthalein Indicator

ſ		(Cont'o	l. of page 2)
		 Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 	
		phenolphthalein	0.42%
		🗞 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	
	7732-18-5	Water	49.58%
		information:	

Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

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:

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Dizziness

Nausea in case of ingestion.

Acidosis

Blindness

Breathing difficulty

Coughing

Causes eye irritation.

Gastric or intestinal disorders when ingested.

Disorientation

Danger:

May be harmful if swallowed, in contact with skin or if inhaled.

Vapors may cause drowsiness and dizziness.

May cause cancer.

May cause neurotoxic effects.

Danger of impaired breathing.

May cause damage to the central nervous system and optic nerve.

Suspected of damaging fertility or the unborn child.

Indication of any immediate medical attention and special treatment needed:

Medical supervision for at least 48 hours.

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of p
Extinguishing media	
· Suitable extinguishing agents:	
Alcohol resistant foam	
Water fog / haze	
Carbon dioxide	
Gaseous extinguishing agents	
Water spray	
Fire-extinguishing powder	
For safety reasons unsuitable extinguishing agents: Water stream.	
· Special hazards arising from the substance or mixture	
Highly flammable liquid and vapor.	
Formation of toxic gases is possible during heating or in case of fire.	
Advice for firefighters	
Protective equipment: Wear self contained reconstructory protective device	
Wear self-contained respiratory protective device. Wear fully protective suit.	
· Additional information:	
Use large quantities of foam as it is partially destroyed by the product.	
Cool endangered product with water spray.	
Cool endangered product with water spray.	

[•] Personal precautions, protective equipment and emergency procedures

Isolate area and prevent access.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions

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

• Methods and material for containment and cleaning up

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders). Send for recovery or disposal in suitable receptacles.

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.

7 Handling and storage

[·] Handling

• Precautions for safe handling:

Use only in well ventilated areas.

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep respiratory protective device available.

(Cont'd. on page 5)

		(Cont'd. of page
Conditions fo	r safe storage, including any incompatibilities	
	o be met by storerooms and receptacles:	
	entilated place. Keep cool. ear extreme heat, ignition sources or open flame.	
	out storage in one common storage facility:	
Store away from	foodstuffs.	
	oxidizing agents.	
Keep containers	ation about storage conditions:	
	y conditions in well sealed receptacles.	
Specific end u	JSe(S) No relevant information available.	
Exposure co	ntrols/personal protection	
Control paran	neters	
•	ith limit values that require monitoring at the workplace:	
67-63-0 Propan		
PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm	
REL (USA)	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm	
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm	
	Long-term value: 492 mg/m³, 200 ppm BEI	
EL (Canada)	Short-term value: 400 ppm	
、	Long-term value: 200 ppm	
EV (Canada)	Short-term value: 400 ppm	
	Long-term value: 200 ppm Short-term value: 400 ppm	
	Long-term value: 200 ppm	
	A4, ĪBE	
64-17-5 Ethano	-	
PEL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
REL (USA)	Long-term value: 1900 mg/m³, 1000 ppm	
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm	
EL (Canada)	Short-term value: 1000 ppm Long-term value: 1,900 mg/m³, 1,000 ppm	
EV (Canada)	Long-term value: 1,900 mg/m , 1,000 ppm	
, , , , , , , , , , , , , , , , , , ,	A3	
67-56-1 Methan		
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm	
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin	
	Short-term value: 328 mg/m³, 250 ppm	
TLV (USA)		

Safety Data Sheet according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

67-63-0 Propan-2-ol BEI (USA) 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 67-56-1 Methanol BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) Exposure controls General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Engineering controls: Provide adequate ventilation. Breathing equipment: In case of inadequate ventilation wear respiratory protection. Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrile rubber, NBR Neoprene gloves Buty rubber, BR	de name: P	henolphthalein Indicator	
Long-term value: 262 mg/m³, 200 ppm Skin; BEI EL (Canada) Short-term value: 250 ppm Long-term value: 250 mg/m³, 250 ppm Long-term value: 250 mg/m³, 250 ppm Long-term value: 200 ppm Plet, IBE Ingredients with biological limit values: 67-63-0 Propan-2-0 BEI (USA) BEI (USA) Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 67-66-1 Methanol BEI (USA) BEI (USA) Time: end of shift Parameter: Methanol (background, nonspecific) Exposure controls General protective and hygienic measures: The usulp remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhal cases / fumes / aerosols. Engineering controls: Provide adequate ventiliation wear respiratory protection.			(Cont'd. of page
EL (Canada) Short-term value: 250 ppm Long-term value: 250 ppm Skin EV (Canada) Short-term value: 250 ppm Long-term value: 260 ppm Normality LMPE (Mexico) Short-term value: 250 ppm Long-term value: 250 ppm PIEL, IBE Impredients with biological limit values: 67-63-0 Propan-2-01 BEI (USA) 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 67-56-11 Methanol BEI (USA) BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) Exposure controls General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Engineering controls: Provide adequate ventilation. Breathing equipment: In case of inadequate ventilation wear respiratory protection. Protection of hands: Immediately remove gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrie rubber, NBR Neoprene gloves Suffrie rubber, BR Eye protection: Eige protection: Eige protection: Eige protection: Eige protection:			
EV (Canada) Long-term value: 200 ppm Skin EV (Canada) Short-term value: 325 mg/m³, 250 ppm Long-term value: 200 ppm Pite, IBE Impredients with biological limit values: Cong-term value: 200 ppm Pite, IBE Impredients with biological limit values: Cong-term value: 200 ppm Pite, IBE Impredients with biological limit values: Cong-term value: 200 ppm Pite, IBE Cong-term value: 200 ppm Pite, IBE Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 67-56-1 Methanol BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) Exposure controls Ceneral protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / Immes / aerosols. Engineering controls: Provide adequate ventilation. Breathing equipment: In case of inadequate ventilation wear respiratory protection. Protection of hands: Wash hands before gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrile rubber, NBR Neoprene gloves Nitrile rubber, NBR Neoprene gloves Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. Body protection: Protective work clothing	EL (Canada)		
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LMPE (Mexico) Short-term value: 260 mg/m³, 200 ppm Skin LMPE (Mexico) Short-term value: 250 ppm PIEL, IBE Ingredients with biological limit values: 67-63-0 Propan-2-0 BEI (USA) 40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific) 67-56-1 Methanol BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) 7-56-1 Methanol BEI (USA) 15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific) Exposure controls General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Immediately remove all solied and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases / fumes / aerosols. Engineering controls: Provide adequate ventilation. Breathing equipment: In case of inadequate ventilation wear respiratory protection. Protection of hands: Within rubber, NBR Neoprene gloves Nithin rubber, NBR Neoprene gloves Safety glasses Follow relevant national guidelines concerning the use of protective eyewear. Eody protection: Protective work clothing			
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Follow relevant national guidelines concerning the use of protective eyewear. Body protection: Protective work clothing	Material of	gloves	ce/ the preparation.
Body protection: Protective work clothing	Neoprene gl Butyl rubber,	bves BR	
	Neoprene gla Butyl rubber, Eye protect	bves BR ion:	

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(Cont'd. of page 6)

Trade name: Phenolphthalein Indicator

· Limitation and supervision of exposure into the environment No relevant information available.

· Risk management measures No relevant information available.

9 Physical and chemical propert	ties
Information on basic physical an	d chemical properties
· Appearance:	
Form:	Liquid
Color:	Colorless
· Odor:	Like alcohol
· Odor threshold:	Not determined.
· pH-value:	Not determined.
 Melting point/Melting range: 	Not determined.
Boiling point/Boiling range:	64.7 °C (148.5 °F)
· Flash point:	13 °C (55.4 °F)
· Flammability (solid, gaseous):	Not applicable.
· Auto-ignition temperature:	425 °C (797 °F)
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
· Explosion limits	
Lower:	2 Vol %
Upper:	15 Vol %
 Oxidizing properties: 	Not determined.
· Vapor pressure at 20 °C (68 °F):	59 hPa (44.3 mm Hg)
· Density at 20 °C (68 °F):	0.89 g/cm³ (7.43 lbs/gal)
Relative density:	0.85-0.96
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.
 Solubility in / Miscibility with 	
Water:	Fully miscible.
· Partition coefficient (n-octanol/water	r): Not determined.
· Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Other information	No relevant information available.

10 Stability and reactivity

[·] Reactivity:

(Cont'd. on page 8)

	(Cont'd. of page
Reacts with alkali (lyes).	(Cont d. or page
Reacts with certain metals.	
· Chemical stability: Stable under normal temperatures and pressures.	
Thermal decomposition / conditions to be avoided:	
No decomposition if used and stored according to specifications. • Possibility of hazardous reactions	
Reacts violently with oxidizing agents.	
Reacts with strong acids.	
Toxic fumes may be released if heated above the decomposition point.	
Conditions to avoid Excessive heat.	
Incompatible materials Oxidizers	
Hazardous decomposition products	
Under fire conditions only: Carbon monoxide and carbon dioxide	
Toxicological information	
•	
Information on toxicological effects	
 Acute toxicity: Harmful if swallowed, in contact with skin or if inhaled. LD/LC50 values that are relevant for classification: None. 	
• Primary irritant effect:	
• On the skin: Based on available data, the classification criteria are not met.	
On the eye: Irritating effect.	
• Sensitization: Based on available data, the classification criteria are not met.	
· IARC (International Agency for Research on Cancer):	
67-63-0 Propan-2-ol	3
67-63-0 Propan-2-ol 64-17-5 Ethanol	3
•	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program):	1
64-17-5 Ethanol 77-09-8 phenolphthalein	1 21
64-17-5 Ethanol 77-09-8 phenolphthalein NTP (National Toxicology Program): 77-09-8 phenolphthalein OSHA-Ca (Occupational Safety & Health Administration):	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed.	
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure:	1 21
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion.	1 21
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity):	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. • Repeated dose toxicity: Possible risk of irreversible effects.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. • Repeated dose toxicity: Possible risk of irreversible effects. • Germ cell mutagenicity: Suspected of causing genetic defects.	1
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. • Repeated dose toxicity: Possible risk of irreversible effects. • Germ cell mutagenicity: Suspected of causing genetic defects. • Carcinogenicity: May cause cancer.	1 21
64-17-5 Ethanol 77-09-8 phenolphthalein NTP (National Toxicology Program): 77-09-8 phenolphthalein OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Repeated dose toxicity: Possible risk of irreversible effects. Germ cell mutagenicity: Suspected of causing genetic defects. Carcinogenicity: May cause cancer. Reproductive toxicity: Suspected of damaging fertility or the unborn child.	1 21
64-17-5 Ethanol 77-09-8 phenolphthalein • NTP (National Toxicology Program): 77-09-8 phenolphthalein • OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients are listed. • Probable route(s) of exposure: Ingestion. Inhalation. Eye contact. Skin contact. • Acute effects (acute toxicity, irritation and corrosivity): Toxic if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. • Repeated dose toxicity: Possible risk of irreversible effects. • Germ cell mutagenicity: Suspected of causing genetic defects. • Carcinogenicity: May cause cancer.	1 2

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

· Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

[•] Additional ecological information

· General notes: Do not allow product to reach ground water, water course or sewage system.

· Other adverse effects No relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

• Recommendation: Disposal must be made according to official regulations.

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

14 Transport information	
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1987
 UN proper shipping name DOT ADR/RID/ADN, IMDG, IATA 	Alcohols, n.o.s. (ISOPROPANOL, Ethanol, Methanol) ALCOHOLS, N.O.S. (ISOPROPANOL, ETHANOL, METHANOL)
 Transport hazard class(es) 	
DOT	
· Class	3
· Label	3
· ADR/RID/ADN	
· Class	3 (F1)
	(Cont'd. on page 10)

	(Cont'd. of page 9)
· Label	3
· IMDG, IATA	
Class	3
· Label	3
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	П
 Environmental hazards Marine pollutant: 	No
Special precautions for user	Warning: Flammable liquids
Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-D
Transport in bulk according to Annex II o	
MARPOL73/78 and the IBC Code	Not applicable.
15 Regulatory information Safety, health and environmental regul	ations/legislation specific for the substance or
	ations/legislation specific for the substance or
 Safety, health and environmental regul mixture United States (USA) 	
 Safety, health and environmental regul mixture United States (USA) SARA 	
 Safety, health and environmental regule mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance) 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 67-63-0 Propan-2-ol 67-63-1 Methanol TSCA (Toxic Substances Control Act) 67-63-1 Methanol 	s):
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 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 67-63-0 Propan-2-ol 67-63-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 67-63-1 Methanol 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 64-17-5 Ethanol 67-56-1 Methanol 77-09-8 phenolphthalein 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 64-17-5 Ethanol 67-56-1 Methanol 77-09-8 phenolphthalein 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic be 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-63-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 64-17-5 Ethanol 77-09-8 phenolphthalein 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic be 64-17-5 Ethanol 	s):
 Safety, health and environmental regul mixture United States (USA) SARA Section 302 (extremely hazardous substance None of the ingredients are listed. Section 313 (Specific toxic chemical listings) 67-63-0 Propan-2-ol 67-56-1 Methanol TSCA (Toxic Substances Control Act) 67-63-0 Propan-2-ol 64-17-5 Ethanol 67-56-1 Methanol 77-09-8 phenolphthalein 7732-18-5 Water Proposition 65 (California) Chemicals known to cause cancer: Ethanol - listing refers specifically to alcoholic be 	s):

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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	(Cont'd. of pag
None of the ingredients are listed.	<u> </u>
Chemicals known to cause developmental toxicity for	males:
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity: Ethanol - listing refers specifically to alcoholic beverage co	nsumption and is not applicable for product
64-17-5 Ethanol	
67-56-1 Methanol	
EPA (Environmental Protection Agency):	
None of the ingredients are listed.	
IARC (International Agency for Research on Cancer):	
67-63-0 Propan-2-ol	
64-17-5 Ethanol	
77-09-8 phenolphthalein	
Canadian Domestic Substances List (DSL):	
None of the ingredients are listed.	

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.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Acute I ox. 4: Acute toxicity – Category 4

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1B: Carcinogenicity – Category 1B Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Sources

Website, European Chemicals Agency (echa.europa.eu)
Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)
Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6
Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.
Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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