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## **Safety Data Sheet**

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

Revision: December 11, 2020

### 1 Identification

- · Product identifier
- · Trade name: Phenolphthalein Indicator Reagent
- · Product code: AR-1010-60 EW
- · 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:

Aqua Analytics 39555 Orchard Hill Place Suite 600,

Novi, MI 48375 (888) 712-4000

· 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. Liq. 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:







GHS02 GHS07 GHS08

· Signal word: Danger

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(Cont'd. of page 1) · Hazard statements: H225 Highly flammable liquid and vapor. H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled. Causes serious eye irritation. Suspected of causing cancer. H351 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 statements: 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. Ground/bond container and receiving equipment. P240 Use explosion-proof electrical/ventilating/lighting/equipment. P241 P242 Use only non-sparking tools. Take precautionary measures against static discharge. P243 Do not breathe mist/vapors/spray. P260 Wash thoroughly after handling. P264 Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection. P303+P361+P353 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. Take off contaminated clothing and wash it before reuse. P362+P364 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; STOT SE 3, H336 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)

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	<ul> <li>Flam. Liq. 2, H225</li> <li>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</li> <li>STOT SE 1, H370</li> </ul>	
	phenolphthalein	0.42%
	🕸 Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361	
7732-18-5	Water	49.58%

### · 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

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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 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.

### 6 Accidental release measures

### 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.

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- · Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

Store in a well-ventilated place. Keep cool.

Avoid storage near extreme heat, ignition sources or open flame.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

· Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No relevant information available.

### 8 Exposure controls/personal protection

Components w	ith limit values that require monitoring at the workplace:			
67-63-0 Propan-2-ol				
PEL (USA)	Long-term value: 980 mg/m³, 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/m³, 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			
LMPE (Mexico)	Short-term value: 400 ppm Long-term value: 200 ppm A4, IBE			
64-17-5 Ethano	l			
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/m³, 1000 ppm			
EL (Canada)	Short-term value: 1000 ppm			
EV (Canada)	Long-term value: 1,900 mg/m³, 1,000 ppm			
LMPE (Mexico)	Long-term value: 1000 ppm A3			
67-56-1 Methanol				
PEL (USA)	Long-term value: 260 mg/m³, 200 ppm			
REL (USA)	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin			
TLV (USA)	Short-term value: 328 mg/m³, 250 ppm			

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Long-term value: 262 mg/m³, 200 ppm

Skin; BEI

EL (Canada) | Short-term value: 250 ppm

Long-term value: 200 ppm

Skin

EV (Canada) | Short-term value: 325 mg/m³, 250 ppm

Long-term value: 260 mg/m³, 200 ppm

Skin

LMPE (Mexico) | Short-term value: 250 ppm

Long-term value: 200 ppm

PIEL, IBE

### Ingredients with biological limit values:

### 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.
- · Protection of hands:



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

Butyl rubber, BR

Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

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- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures No relevant information available.

9 Physical and chemical prope	erties				
Information on basic physical and 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 a 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/wa	ter): Not determined.				
· Viscosity					
Dynamic:	Not determined.				
Kinematic:	Not determined.				
Other information	No relevant information available.				

# 10 Stability and reactivity

· Reactivity:

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Reacts with alkali (lyes).

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

### 11 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 eve: 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	
64-17-5	Ethanol	1	
77-09-8	phenolphthalein	2B	
· NTP (Na	itional Toxicology Program):		
77-09-8 phenolphthalein		R	

### · OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

### · Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve 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.
- · **STOT-single exposure:** May cause damage to the central nervous system and optic nerve.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

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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.

4 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 Label	3 3
· ADR/RID/ADN	
· Class	3 (F1)

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(Cont'd. of page 9) 3 · Label · IMDG, IATA · Class 3 · Label Packing group · DOT, ADR/RID/ADN, IMDG, IATA Ш · Environmental hazards · Marine pollutant: No Special precautions for user Warning: Flammable liquids · Hazard identification number (Kemler code): · EMS Number: F-E,S-D Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- Section 302 (extremely hazardous substances):

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-o
---------	------------

- 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 beverage consumption and is not applicable for product.

64-17-5 Ethanol

77-09-8 phenolphthalein

· Chemicals known to cause developmental toxicity for females:

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(0.11)	40)	
None of the ingredients are listed. (Cont'd. of p	age 10)	
· 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 consumption and is not applicable for produc	ct.	
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	3	
64-17-5 Ethanol	1	
77-09-8 phenolphthalein	2B	
· Canadian Domestic Substances List (DSL):		
None of the ingredients are listed.		

### 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.

### · 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. Lig. 2: Flammable liquids - Category 2

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