Phenolphthalein, 0.5% in 50% Ethanol

CAROLINA® www.carolina.com

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Phenolphthalein, 0.5% in 50% Ethanol Science education applications Phenolpthalein pH Indicator Solution Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Highly flammable liquid and vapor. May cause cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs. Toxic to aquatic life.

GHS Classification:

Carcinogenicity Category 1A, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Reproductive Toxicity Category 2, Hazardous to the aquatic environment - Acute Category 2

	F exposed or concerned: Get medical advice/attention. F exposed: Call a POISON CENTER or doctor/physician.
Acute Toxicity Dermal Contains Acute Toxicity Inhalation Vapor Contains	43.23525 % of the mixture consists of ingredient(s) of unknown toxicity 45.62325 % of the mixture consists of ingredient(s) of unknown toxicity 43.23525 % of the mixture consists of ingredient(s) of unknown toxicity 43.23525 % of the mixture consists of ingredient(s) of unknown toxicity

Composition / Information on Ingredients

<u>Chemical Name</u> Water	<u>CAS #</u> 7732-18-5	<u>%</u> 52.25 52.24
Ethyl alcohol Isopropyl Alcohol Methanol	64-17-5 67-63-0 67-56-1	42.74 2.39 2.25
Phenolphthalein	77-09-8	2.14 0.5

Section 4

Section 3

First Aid Measures

Emergency and First Aid ProceduresInhalation:In case of accident by inhalation: remove casualty to fresh air and keep at rest.Eyes:In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.Skin Contact:IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5	Firefighting Procedures		
Extinguishing Media: Fire Fighting Methods and Protectio	e 1 1 1		
Fire and/or Explosion Hazards:	breathing apparatus. Vapors may travel back to ignition source. Closed Containers exposed to heat may		
Hazardous Combustion Products:	explode. Fire or excessive heat may produce hazardous decomposition products. Carbon dioxide, Carbon monoxide		
Section 6	Spill or Leak Procedures		
Steps to Take in Case Material Is Released or Spilled:	No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.		
Section 7	Handling and Storage		
Keep away from I Ground/bond cont equipment. Use of dust/fume/gas/mis product. Avoid rele protection. Use pe	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 no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.		
general chemical storage Code: Red - Flammables	storage. S. Store in approved flammable containers. Store away from oxidizing materials.		
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Section 8	Protection Information		

	ACO	<u>SIH</u>	OSHA PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Ethyl alcohol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A
			1900 mg/m3 TWA	
Isopropyl Alcohol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980	N/A
			mg/m3 TWA	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260	N/A
			mg/m3 TWA	
Phenolphthalein	N/A	N/A	N/A	N/A

Control Parameters Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower. **Respiratory Protection:** No respiratory protection required under normal conditions of use. Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. **Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available. **Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Gloves: Nitrile

Physical Data

Section 9

Formula: See Section 3 Molecular Weight: No Data Available Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available pH: No data available Melting Point: No data available -114 C Boiling Point: Estimated 80 C 79 C Flash Point: Estimated 24 C 17 C Flammable Limits in Air: Ethyl alcohol: 3.3 - 19%

Vapor Pressure: No Data Available Evaporation Rate (BuAc=1): No Data Available Vapor Density (Air=1): No Data Available Specific Gravity: No Data Available Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: 48%

Reactivity Data

Reactivity: Chemical Stability:	Not generally reactive under normal conditions. Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials:	Water-reactive materials, Strong oxidizing agents, Acids, Strong reducing agents, Magnesium
Hazardous Decomposition Products:	Carbon oxides
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Hazardous Polymerization:	Will not occur

Section 11

Acute Toxicity:

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Section 10

Toxicity Data

Routes of Entry	
Symptoms (Acute):	
Delayed Effects:	

Inhalation, ingestion, eye or skin contact. Dizziness, Depressed Activity, Central Nervous System Depression No data available

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Isopropyl Alcohol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	3600 mg/kg Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Phenolphthalein	77-09-8			ppin
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
Ethyl alcohol	64-17-5	Listed	Listed	Listed
Isopropyl Alcohol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Phenolphthalein	77-09-8	Listed	Listed	Listed
Chronic Effects:				

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	Evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	Evidence of negative reproductive effects.
Target Organ Effects: Acute: Chronic:	Eyes Eyes, Liver, Gastrointestinal tract

Section 12

Ecological Data

Overview: Mobility: Persistence: Bioaccumulation:

This material is not expected to be harmful to the ecology. No data Biodegradation, Adsorbs to soil/solids No data

Other Adverse Effects:	No data		
Chemical Name Water Ethanol 2-Propanol Methanol Phenolphthalein	NO GATA	CAS Number 7732-18-5 64-17-5 67-63-0 67-56-1 77-09-8	Eco Toxicity No data available 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
			48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
			96 HR EC50 DESMODESMOS SUBSPICATUS > 1000 MG/L

Section 13

Degradability.

Disposal Information

Disposal Methods:

Waste Disposal Code(s):

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: UN1170 Ethanol Solutions Class 3 P.G. III Air - IATA Proper Shipping Name: UN1170 Ethanol Solutions Class 3 P.G. III

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
2-Propanol		No	No	No	No	No

California Prop 65:



No data

WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov

Section 16

Additional Information

Revised: 08/21/2018

Replaces: 06/27/2018

Printed: 08-25-2018

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH CAS CERCLA	American Conference of Governmental Industrial Hygienists Chemical Abstract Service Number Comprehensive Environmental Response, Compensation, and Liability Act	NTP OSHA PEL ppm RCRA	National Toxicology Program Occupational Safety and Health Administration Permissible Exposure Limit Parts per million Resource Conservation and Recovery Act
DOT IARC N/A	U.S. Department of Transportation International Agency for Research on Cancer Not Available	SARA TLV TSCA	Superfund Amendments and Reauthorization Act Threshold Limit Value Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health