Phenolphthalein, 0.5% in 50% Ethanol



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

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention. IF exposed: Call a POISON CENTER or doctor/physician.

Composition / Information on Ingredients

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

Section 4

Section 3

First Aid Measures

Emergency and First Aid Procedures

Inhalation:	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 Protection Fire and/or Explosion Hazards: Hazardous Combustion Products:	 Water fog in flooding quantities. Apply water from as far a distance as possible. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus. Vapors may travel back to ignition source. Closed Containers exposed to heat may 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: Methods for Clean-up	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		

Handling: 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 no eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Suitable for any general chemical storage.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8

Protection Information

	ACGIH		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 mg/m3 TWA	N/A	
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A	
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				

Section 9

Physical Data

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%

Section 10

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: Conditions to Avoid:	Not generally reactive under normal conditions. Stable under normal conditions. 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,
Hazardaus Decomposition Products	Magnesium Carbon oxides
Hazardous Decomposition Products:	Will not occur
Hazardous Polymerization:	

Section 11

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

Acute Toxicity: Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat	Dermai 2000	
Isopropyl Alcohol	67-63-0	90000 mg/kg Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse		INHALATION LC50 Rat 16000 PPM 8H
Methanol	67-56-1	3600 mg/kg Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 PPM 4H
Phenolphthalein	77-09-8			
Carcinogenicity: Chemical Name Ethyl alcohol	CAS Number 64-17-5	IARC Listed	NTP Listed	OSHA 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:	Eyes
Chronic:	Eyes, Liver, Gastrointestinal tract

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.			
Mobility:	No data			
Persistence:	Biodegradation, Adsorbs to soil/solids			
Bioaccumulation:	No data			
Degradability:	No data			
Other Adverse Effects:	No data			
Chemical Name Water Ethanol 2-Propanol Methanol Phenolphthalein	CAS Number 7732-18-5 64-17-5 67-63-0 67-56-1 77-09-8	Eco Toxicity 96 HR LC50 LEPOMIS MACROCHIRUS 13500 - 17600 MG/L [FLOW-THROUGH] 96 HR LC50 ONCORHYNCHUS MYKISS 18 - 20 ML/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 19500 - 20700 MG/L [FLOW-THROUGH] 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 28200 MG/L [FLOW- THROUGH] 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 MG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 96 HR LC50 PIMEPHALES PROMELAS 9640 MG/L [FLOW- THROUGH] 96 HR LC50 PIMEPHALES PROMELAS 13400 - 15100 MG/L [FLOW-THROUGH] 96 HR LC50 ONCORHYNCHUS MYKISS 12 - 16 ML/L [STATIC] No data available 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 9268 - 14221 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L		

Section 13

Disposal Methods:

Waste Disposal Code(s):

Disposal Information

Transport Information

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

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:	<u>`</u>			Cancer and Rep arnings.ca.gov	productive Harr	n –

Section 16

Additional Information

Revised: 03/14/2025

Replaces: 03/14/2025

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