Phenolphthalein, 0.5% in 50% Ethanol



Section 1

Product Description

Product Name: Phenolphthalein, 0.5% in 50% Ethanol **Recommended Use:** Science education applications Phenolpthalein pH Indicator Solution Synonyms: Distributor: Carolina Biological Supply Company

2700 York Road, Burlington, NC 27215

1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2

Hazard Identification

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

DANGER





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

GHS Classification:

Carcinogenicity Category 1B, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Reproductive Toxicity Category 2

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

IF exposed: Call a POISON CENTER or doctor/physician.

43.272563 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Oral Contains Acute Toxicity Dermal Contains** 43.272563 % of the mixture consists of ingredient(s) of unknown toxicity 43.272563 % of the mixture consists of ingredient(s) of unknown toxicity **Acute Toxicity Inhalation Vapor Contains**

Acute Toxicity Inhalation Dust/Mist 43.272563 % of the mixture consists of ingredient(s) of unknown toxicity

Contains

Composition / Information on Ingredients Section 3

Chemical Name	CAS#	<u>%</u>
Water	7732-18-5	52.25
		52.24
Ethanol	64-17-5	42.77
		42.75
2-Propanol	67-63-0	2.36
		2.25
Methanol	67-56-1	2.25
		2.13
Phenolohthalein	77-09-8	0.5

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Eves: **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:

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.

Fire and/or Explosion Hazards:

Vapors may travel back to ignition source. Closed Containers exposed to heat may explode. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion 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.

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. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective

equipment as required.

Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly Storage:

closed in a cool, well-ventilated place.

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

Section 8

Protection Information

	ACC	<u>OSHA PEL</u>		
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA;	N/A
			1900 mg/m3 TWA	
2-Propanol	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):

Respiratory Protection: Respirator Type(s):

Lab coat, apron. eve wash, safety shower. No respiratory protection required under normal conditions of use.

None required where adequate ventilation is provided. If airborne concentrations are

above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection. Wear chemical splash goggles when handling this product. Have an eye wash station **Eye Protection:**

available.

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective **Skin Protection:**

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: -114 C No data available Boiling Point: 79 C Estimated 80 C Flash Point: 17 C Estimated 24 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%

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.

Chemical Stability: 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, Organic Peroxides, Strong acids, Oxidizing materials

Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Respiratory Irritation, Dermititis, Central Nervous System Depression, Dizziness

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat		INHALATION
		5045 mg/kg		LC50 Rat 16000
		Oral LD50 Mouse		ppm
		3600 mg/kg		
Methanol	67-56-1	Oral LD50 Mouse		INHALATION
		7300 mg/kg		LC50 Rat 64000
				ppm

77-09-8

Carcinogenicity:

Phenolphthalein

Chemical Name CAS Number IARC NTP **OSHA** Listed Listed Listed Ethanol 64-17-5 67-63-0 Not listed 2-Propanol Listed Not listed 67-56-1 Not listed Not listed Not listed Methanol 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 NameCAS NumberEco ToxicityWater7732-18-5No data available

Ethanol 64-17-5 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 2-Propanol 67-63-0 96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μ G/L Methanol 67-56-1 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]

Phenolphthalein 77-09-8 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 DESMODESMUS SUBSPICATUS > 1000 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always

contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Air - IATA Proper Shipping Name:

UN1170 UN1170

Ethanol Solutions Ethanol Solutions

Class 3 Class 3 P.G. III P.G. III

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name CAS § 313 Name § 304 RQ CERCLA RQ § 302 TPQ CAA 112(2) Number TQ

2-Propanol 67-63-0 Isopropyl No No No No

alcohol

aiconoi

California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 09/03/2014 Replaces: 09/03/2014 Printed: 09-11-2014

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 Industrial Hygienists	NTP OSHA	National Toxicology Program 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