SAFETY DATA SHEET (SDS)

Phenolphthalein

Issue date: 05-06-2024

Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Phenolphthalein solution
Product Codes:	FS30.10 FS30.10RF
Other means of identification:	
External product name and code/s:	C90019
Manufacturer:	
Carolina Biological Supply Company	2700 York Road, Burlington, North Carolina, 27215, USA Website: www.carolina.com
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	168 Fulham Road Alphington Victoria 3078 Australia
Suppliers Phone No.:	1300 138 561
Emergency Phone number (BH)	1300 138 561



Phenolphthalein, 0.5% in 50% Ethanol



Section 1

Product Description

Product Name:
Recommended Use:
Synonyms:
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

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. 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.

Acute Toxicity Oral Contains
Acute Toxicity Dermal Contains
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

Acute Toxicity Inhalation Dust/Mist

Contains

43.23525 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

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

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:

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. 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. Use personal protective equipment as required.

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

general chemical storage.

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)	(TWA)	(STEL)
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):

Respiratory Protection: Respirator Type(s):

Lab coat, apron, eye 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.

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. Nitrile

Gloves:

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%

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 Section 10

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.

Water-reactive materials, Strong oxidizing agents, Acids, Strong reducing agents, **Incompatible Materials:**

Magnesium

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

Section 11 Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.

Dizziness, Depressed Activity, Central Nervous System Depression Symptoms (Acute):

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		
Isopropyl Alcohol	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 Phenolphthalein

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, Liver, Gastrointestinal tract

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.

Mobility:

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 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 No No No No No No

California Prop 65:



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	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