Phenolphthalein 1%, in Ethanol 95%



Section 1

Product Description

Product Name: Phenolphthalein 1%, in Ethanol 95% **Recommended Use:** Science education applications

Synonyms: Alcohol, Ethyl alcohol

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. Suspected of causing genetic defects. Suspected of damaging fertility or the unborn child. May cause damage to organs.

GHS Classification:

Flammable Liquid Category 2, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2

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

IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Section 3 Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Ethyl alcohol	64-17-5	84.9
Water	7732-18-5	5
Isopropyl Alcohol	67-63-0	4.8
Methanol	67-56-1	4.3
Phenolphthalein	77-09-8	1

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: After contact with skin, wash immediately with plenty of water.

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

Section 5

Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Fire and/or Explosion Hazards: 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.

Ventilate the area by opening door and/or turning on fans and blowers. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

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. 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.

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

ventilated place.

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

Section 8

Protection Information

	ACC	<u>OSHA P</u>	OSHA PEL	
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

Eye Protection:

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when

Lab coat, apron, eye wash, safety shower.

handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Respiratory Protection:

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. Wear chemical splash goggles when handling this product. Have an eye wash station

available.

Skin Protection: Wear protective gloves. 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: CH3CH2OH

Molecular Weight: (Ethanol) 46.07 Appearance: Colorless Liquid Odor: Moderate Alcohol Odor Odor Threshold: No data available

pH: No data available Melting Point: -114 C Boiling Point: 79 C Flash Point: 17 C

Flammable Limits in Air: 3.3 - 19% (Ethanol)

Vapor Pressure: 57.3 hPa at 20°C Evaporation Rate (BuAc=1): 3.3 Vapor Density (Air=1): 1.6

Specific Gravity: (Ethanol) 0.789 at 20 °C

Solubility in Water: Soluble Log Pow (calculated): -0.32 Autoignition Temperature: 363 C

Decomposition Temperature: No data available

Viscosity: No data available Percent Volatile by Volume: 95%

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, Strong oxidizing agents, Acids, Strong reducing agents,

Magnesium

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

Section 11 Toxicity Data

Routes of Entry Inhalation and ingestion.

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

Delayed Effects: Liver disorders

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

Phenolphthalein 77-09-8

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: 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, Kidneys, Liver, Gastrointestinal tract Chronic: Eyes, Kidneys, Liver, Gastrointestinal tract

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or

wildlife.

Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.

Persistence: Biodegradation, Adsorbs to soil/solids **Bioaccumulation:** Bioconcentration is not expected to occur.

Degradability: No data
Other Adverse Effects: No data

Chemical Name CAS Number Eco Toxicity

Ethanol	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
Water	7732-18-5	No data available
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 μG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]
	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): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14

Transport Information

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

UN1170Ethanol SolutionsClass 3P.G. II UN1170

Ethanol Solutions

Class 3 P.G. II

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
Isopropyl Alcohol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Phenolphthalein	77-09-8	Phenolphthale in	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: 07/16/2018 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