## **Phenolphthalein Solution**



#### Section 1

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor:

**Chemical Information:** 

Phenolphthalein Solution Science education applications Phenolphthalein Solution for Simulated Blood, Simulated Kastle-Meyer Reagent 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)

Section 2

**Chemtrec:** 

#### **Hazard Identification**

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





Highly flammable liquid and vapor. Suspected of causing genetic defects. 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, Germ Cell Mutagenicity 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.

Acute Toxicity Oral Contains Acute Toxicity Dermal Contains 46.25 % of the mixture consists of ingredient(s) of unknown toxicity 46.25 % of the mixture consists of ingredient(s) of unknown toxicity

#### **Section 3**

#### **Composition / Information on Ingredients**

Chemical Name Water Ethanol 2-Propanol Methanol Phenolophthalein	CAS # 7732-18-5 64-17-5 67-63-0 67-56-1 77-09-8	%49 45.25 2.5 2.25 1
Phenolphthalein	77-09-8	1

#### **Section 4**

#### **First Aid Measures**

Emergency and First	st 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

**Eirefighting Procedures** Use media suitable to extinguish surrounding fire.

Extinguishing Media:

Phenolphthalein Solution

Fire Fighting Methods and Protectio	n: 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
Hazardous Combustion Products:	explode. 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

S 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 Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. 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 away from sources of ignition - No smoking. Bond and ground containers when transferring liquid.
Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Keep away from oxidizing materials and strong acids.

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

#### Section 8

## **Protection Information**

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

Respiratory Protection: Eye Protection:

**Skin Protection:** 

Engineering Measures:No exposure limits exist for the constituents of this product. General room ventilation<br/>might be required to maintain operator comfort under normal conditions of use.Personal Protective Equipment (PPE):Lab coat, apron, eye wash, safety shower.

No respiratory protection required under normal conditions of use.

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

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:	
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Butyl rubber, Natural latex,, Neoprene, Nitrile

# Section 9 Physical Data Formula: See Section 3 Vapor Pressure: 40 mmHg at 20 °C

Formula: See Section 3

Section 12

# Safety Data Sheet

Molecular Weight: N/A Appearance: Colorless Odor: Moderate Alcohol Odor Odor Threshold: No data available **pH:** No data available Melting Point: -114 C Boiling Point: 79 C Flash Point: 13 C Flammable Limits in Air: Ethyl alcohol: 3.3 - 19% Evaporation Rate (BuAc=1): 1.70 Vapor Density (Air=1): 1.5 Specific Gravity: approx. 0.9 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: 50%

#### Reactivity Data

	No data available Stable under normal conditions. Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
on:	Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Strong oxidizing agents Will not occur

#### Section 11

Section 10

Chemical Stability: Conditions to Avoid:

**Incompatible Materials:** 

**Hazardous Polymerizatio** 

Reactivity:

Toxicity Data

Inhaltion and skin contact. Routes of Entry Symptoms (Acute): Liver disorders **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 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Phenolphthalein	77-09-8			ppm
Carcinogenicity:				
Chemical Name	CAS Number	· IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	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: See Section 2 Chronic:

Mutation data cited., May cause cancer., Certain components or species of this product are considered potential carcinogens.

## **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

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50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 50 DAPHNIA MAGNA 2 MG/L [STATIC]
50 DAPHNIA MAGNA 10800 MG/L
50 DAPHNIA MAGNA 9268 - 14221 MG/L 50 LEPOMIS MACROCHIRUS > 1400000 µG/L
50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]
50 DAPHNIA MAGNA 13299 MG/L 50 DESMODESMUS SUBSPICATUS > 1000 MG/L
50 DESMODESMUS SUBSPICATUS > 1000 MG/L
50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

#### Section 13

#### **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. II Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

#### 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
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	lsopropyl 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:				ains a chemical kr		e of California

## **Additional Information**

#### Revised: 09/03/2014

Section 16

#### Replaces: 08/27/2014

#### Printed: 04-21-2015

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