Phenolphthalein Solution



Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor: 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)

Chemical Information: Chemtrec:

Hazard Identification

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



Section 2



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.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u> Water Ethanol 2-Propanol Methanol	<u>CAS #</u> 7732-18-5 64-17-5 67-63-0 67-56-1 77-00-0	<u>%</u> 49 45.25 2.5 2.25
Phenolphthalein	77-09-8	1

Section 4

First Aid Measures

Emergency and First	t 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: Use media suitable to extinguish surrounding fire.

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards:

Hazardous Combustion Products:

Vapors may travel back to ignition source. Closed Containers exposed to heat may 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
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.
- Storage Code:

Section 8

Protection Information

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

Keep away from oxidizing materials and strong acids.

available.

work

	ACC	<u>SIH</u>	OSHA PEL		
<u>Chemical Name</u>	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>	
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	

Lab coat, apron, eve wash, safety shower,

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Eve Protection:

Skin Protection:

Gloves:

Section 9

Physical Data

Butyl rubber, Natural latex,, Neoprene, Nitrile

Formula: See Section 3 Molecular Weight: N/A Appearance: Colorless Vapor Pressure: 40 mmHg at 20 °C Evaporation Rate (BuAc=1): 1.70 Vapor Density (Air=1): 1.5

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

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

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

No respiratory protection required under normal conditions of use.

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%

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%

Section 10

Reactivity Data

Reactivity: Chemical Stability:	No data available Stable under normal conditions.
Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials:	Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Strong oxidizing agents
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry	Inhaltion and skin contact.
Symptoms (Acute):	, Liver disorders
Delayed Effects:	No data available

Acute Toxicity: Chemical Name Water	CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
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			
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:	Evidence of a mutagenia offect
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.

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

CAS Number Eco Toxicity

Water Ethanol	7732-18-5 64-17-5	No data available 96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
		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
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L
		96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC]
		48 HR EC50 DAPHNIA MAGNA 13299 MG/L
		72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
		96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
Phenolphthalein	77-09-8	

Section 13

Disposal Information

Transport 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

Ground - DOT Proper Shipping Name: UN1170 Ethanol Solutions Class 3 P.G. II

Air - IATA Proper Shipping Name: 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
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	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



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