Safety Data Sheet

Phenolphthalein 1%, in Ethanol 95%

Section 1	Product Description
Product Name: Recommended Use: Synonyms:	Phenolphthalein 1%, in Ethanol 95% Science education applications Alcohol, Ethyl alcohol
Supplier:	C2A Sales & Supplies (Barbados) Ltd. #3 Canewood Road, Jackson, St. Michael, Barbados BB11005 1-246-426-1256
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.

Composition / Information on	Ingredients
CAS #	%
64-17-5	84.9
7732-18-5	5
67-63-0	4.8
67-56-1	4.3
77-09-8	1
	64-17-5 7732-18-5 67-63-0 67-56-1

Section 4

First Aid Measures

Firefighting Procedures

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

Use dry chemical, CO2 or appropriate foam.

Extinguishing Media: 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

Safety Data Sheet

	Salety Data Sheet
Section 6	Spill or Leak Procedures
Steps to Take in Released or Spill	ase Material IsNo health affects expected from the clean-up of this material if contact can be avoided.d: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.
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, wellventilated place.

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

Section 8

Protection Information

	ACO	GI <u>H</u>	OSHA PEL			
<u>Chemical Name</u>	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)		
Ethyl alcohol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A		
Isopropyl Alcohol	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		
O a mén a l D a manua a fa ma						

Control Parameters Engineering Measures:

Personal Protective Equipment (PPE): Respiratory Protection: Respirator Type(s):

Eye Protection:

Skin Protection:

Gloves:

Section 9

Physical Data

handling or using this product to avoid overexposure.

Lab coat, apron, eye wash, safety shower.

available.

Nitrile

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

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

Local exhaust ventilation or other engineering controls are normally required when

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

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

with mild soap and water before eating, drinking, and when leaving work

above the applicable exposure limits, use NIOSH/MSHA approved respiratory 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

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

Section 10

Phenolphthalein 1%, in Ethanol 95%

Reactivity Data

Page 2 of 5

Safety Data Sheet

Reactivity: Chemical Stability:	Not generally reactive under normal conditions. 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
0	

Section 11

Acute Toxicity:

Toxicity Data

Routes of Entry			Inha	latio	on a	nd	l ing	jestior	า.		
-				_						_	

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

Delayed Effects: Liver disorders

Acute loxicity:							
Chemical Name	CAS	Number	Oral LD50	Dermal LD50	Inhalation LC50		
Water	7732-1	8-5	Oral LD50 Rat 90000 mg/kg				
Isopropyl Alcohol	67-63-0)	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm		
Methanol	67-56-1	1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm		
Phenolphthalein	77-09-8	3					
Carcinogenicity: Chemical Name							
Chemical Name	CAS	Number	IARC	NTP	OSHA		
Ethyl alcohol	64-17-5	5	Listed	Listed	Listed		
Isopropyl Alcohol	67-63-0)	Listed	Not listed	Not listed		
Methanol	67-56-1	1	Not listed	Not listed	Not listed		
Phenolphthalein	77-09-8	3	Listed	Listed	Listed		
Chronic Effects: Mutagenicity: Teratogenicity:	Evidence of a mutagenic effe Evidence of a teratogenic eff		ct).				
Sensitization:	No evidence of a sensitization effect.						
Reproductive:	Evidence of negative reproductive effects.						
•	5						
Target Organ Effects: Acute: Chronic:	Eyes, Kidneys, Liver, Gas Eyes, Kidneys, Liver, Gas						

Section 12

Overview:

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

Ecological Data

Mobility:

Persistence:

This material is expected to have moderate mobility in soil. It absorbs to most soil types. Biodegradation, Adsorbs to soil/solids Bioaccumulation:

Bioconcentration is not expected to occur.

egradability: ther Adverse Effects:	No data No data					
hemical Name	C	CAS Number E	co Toxicity			
henolphthalein 1%, in	n Ethanol 95	8				Page 3 of
- ·		Safety Da	ata She	et		2
Ethanol Water 2-Propanol Methanol	773 67-6 67-5	17-5 96 H 2-18-5 [ST. 53-0 No 56-1 96 H 09-8 96 H [ST. 48 H 24 H 48 H 72 H MG	HR LC50 PIM ATIC] data available HR LC50 LEP HR LC50 PIM ATIC] HR EC50 DAF HR EC50 DAF HR EC50 DAF HR EC50 DES /L HR EC50 DES	EPHALES PROM	HIRUS > 1400 MELAS 11130 I 2 MG/L [STATIO 10800 MG/L 1268 - 14221 M 13299 MG/L UBSPICATUS	000 μG/L MG/L C] G/L > 1000
Section 13			al Inform	nation		
Disposal Methods: Waste Disposal Code(s): Section 14. Ground - DOT Proper Shipping UN1170Ethanol SolutionsClass 3	regu com		mitted waste t is considered ort Infor Air - IATA F UN1170 Ethanol Soluti Class 3 P.G. II	disposer (TSD) to d a RCRA ignitati mation Proper Shipping ons	o assure ble waste, D001	1.
Section 15		Regulat	ory Info	rmation		
TSCA Status: Chemical Name	All com CAS Number	ponents in this pro § 313 Name		ne TSCA Invento CERCLA RQ	•	CAA 112(2) TQ
Isopropyl Alcohol	67-63-0	lsopropyl	No	No	No	No
Methanol	67-56-1	alcohol Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Phenolphthalein	77-09-8	Phenolphthale in	No	No	No	No

Additional Information

Safety Data Sheet

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