Phloroglucinol Staining Solution



Section 1

Product Description

Product Name: Phloroglucinol Staining Solution Recommended Use: Science education applications

Synonyms: N/A

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. Toxic if swallowed or in contact with skin. May cause damage to organs.

GHS Classification:

Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2, Acute Toxicity - Dermal Category 3, Acute Toxicity - Oral Category 3

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

Acute Toxicity Inhalation Vapor

Contains

Acute Toxicity Inhalation Dust/Mist

Contains

87.097 % of the mixture consists of ingredient(s) of unknown toxicity

87.097 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

Chemical Name	CAS#	<u>%</u>
Ethanol	64-17-5	79.1
Phloroglucinol, Dihydrate	108-73-6	8
Water	7732-18-5	4.6
2-Propanol	67-63-0	4.37
Methanol	67-56-1	3.93

Section 4

First Aid Measures

Emergency and First Aid Procedures

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. IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all

contaminated clothing. Wash contaminated clothing before reuse.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

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:

Extremely flammable. Vapors may travel back to ignition source. Closed Containers

exposed to heat may explode.

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

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.

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.

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. Pick up wash liquid with additional absorbent and place in a disposable container. Wash area with soap and water Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not flush spill to drain.

Section 7

Handling and Storage

Handling: 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. Keep container tightly closed in a cool, well-ventilated place. Bond and ground containers when transferring liquid. Keep away from oxidizing

materials and strong acids.

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

Section 8

Protection Information

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

Control Parameters

Eye Protection:

Engineering Measures:Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. General room or local exhaust

ventilation is usually required to meet employee exposure standards and/or to ensure employees are not overexposed to airborne material as described in Section III.

Personal Protective Equipment (PPE):

Respiratory Protection:

Lab coat, apron, eve wash, safety shower.

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A

respirator is not normally required.

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: Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9

Physical Data

Formula: See Section 3 Vapor Pressure: N/A

Molecular Weight: N/AEvaporation Rate (BuAc=1): > 1Appearance: Colorless LiquidVapor Density (Air=1): N/AOdor: Moderate Alcohol OdorSpecific Gravity: < 1</td>Odor Threshold: No data availableSolubility in Water: Soluble

pH: No data available

pH: No data available

Log Pow (calculated): -0.32

Melting Point: -114 CAutoignition Temperature: No data availableBoiling Point: 79 CDecomposition Temperature: No data available

Flash Point: 17 C Viscosity: 10

Flammable Limits in Air: Ethyl alcohol: LEL 3.3% Ethyl alcohol: Percent Volatile by Volume: 100%

UEL 19%

Section 10 Reactivity Data

Reactivity: No data available

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: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials

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

Section 11

Toxicity Data

Routes of Entry Inhalation and ingestion.

Symptoms (Acute): Eye disorders, Respiratory disorders, Liver disorders

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Phloroglucinol, Dihydrate	108-73-6	Oral LD50 Rat =		
		4000 mg/kg		
		Oral LD50 Rat		
		4000 mg/kg		
Water	7732-18-5	Oral LD50 Rat		
		90000 mg/kg		
2-Propanol	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

Carcinogenicity:

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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

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: No evidence of a sensitization effect. **Reproductive:** No evidence of negative reproductive effects.

Target Organ Effects:

Acute: See Section 2

Chronic: Tumorigenic data cited., Reproductive data cited., Mutation data cited., Not listed as a carcinogen by

IARC, NTP or OSHA.

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

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]

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

Water 7732-18-5 No data available

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]

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): U154 - Methanol

Section 14 Transport Information

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

UN1993, Flammable liquids, n.o.s.(ethanol, methyl isobutyl UN1993, Flammable liquids, n.o.s.(ethanol, methyl isobutyl

ketone, hexane), 3, II ketone, hexane), 3, II

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 Ethanol 64-17-5 No No No No No 2-Propanol 67-63-0 Isopropyl No No No No alcohol Methanol 67-56-1 Methanol 5000 lb final No No No RQ; 2270 kg final RQ California Prop 65: WARNING: This product contains a chemical known to the state of California

to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 03/04/2015 Replaces: None Printed: 04-22-2015

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	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