

PHLOROGLUCINOL STAINING SOLUTION
CAROLINA BIOLOGICAL SUPPLY COMPANY

1. PRODUCT DESCRIPTION

Product Name: Phloroglucinol Staining Solution
Product Code(s): 88-1321, 88-1323, 88-1325, B6080
Size: 25 ml, 120 ml, 500 ml
Chemical Name: Does not apply, product is a mixture
CAS Number: See section 2
Formula: See Section 2
Synonyms: None
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:
Ethyl alcohol (CAS#64-17-5) 87%
Methyl isobutyl ketone (Denaturant) (CAS# 108-10-1) 4%
Hexane (Denaturant) (CAS#110-54-3) 0.8%
Phloroglucinol (CAS#108-73-6) 8%
TLV and PEL units:
Ethyl alcohol: ACGIH-TLV 1000ppm (TWA)
OSHA-PEL 1000ppm (TWA)
Methyl isobutyl ketone: ACGIH-PEL 50 ppm (TWA), STEL 75 ppm;
OSHA-PEL 50 ppm (TWA), STEL 75 ppm
Hexane: ACGIH-TLV 50 ppm (TWA), OSHA-PEL 50 ppm (TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: Concentrations below 1,000 ppm usually produce no signs of intoxication. Exposure to concentrations over 1,000 ppm may cause headache, irritation of the eyes, nose, and throat, and if continued for an hour, drowsiness and lassitude, loss of appetite and inability to concentrate.
Potential Health Effects:
Eyes: May cause irritation.
Skin: May cause irritation.
Ingestion: May cause gastrointestinal discomfort.
Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:
Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.
Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse. Get medical attention if irritation persists.
Ingestion - If swallowed, if conscious, give plenty of water. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

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4. FIRST AID MEASURES (Cont.)

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): (cc) 55.6F-Ethyl alcohol

NFPA Rating:

Ethanol: Health: 0
Fire: 3
Reactivity: 0

Extinguisher Media:

Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: Ethyl alcohol: LEL 3.3%, UEL-19%

Autoignition Temperature: Ethyl alcohol-793F

Special Firefighting Procedures:

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

Unusual Fire and Explosion Hazards: Extremely flammable. Vapors are heavier than air and can travel distances to ignition source and flash back.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbant and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: This material should be kept in an area suitable for the storage of flammable liquids. Bond and ground containers when transferring liquid.

Other Precautions: Keep oxidizing materials and strong acids away. Wear splash-proof chemical safety goggles and rubber gloves at all times during cleanup process.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes
Mechanical (General): Yes
Special: No
Other: No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

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8. SPECIAL PROTECTION INFORMATION (Cont.)

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eye wash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available
Melting Point: No information available
Boiling Point: No information available
Vapor Pressure: No information available
Vapor Density(Air=1): No information available
Specific Gravity(H₂O=1): Less than 1
Percent Volatile by Volume: 100%
Evaporation Rate(H₂O=1): Greater than 1
Solubility in Water: 100%
Appearance and Odor: Clear liquid, fruity odor

10. REACTIVITY DATA

Stability: Stable

Conditions to Avoid: Heat, sparks, open flame

Compatibility(Materials to Avoid): Strong oxidizing agents.

Hazardous Decomposition Products: Carbon dioxide. Carbon monoxide

Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated. Data is listed for individual components.

Ethyl alcohol: orl-rat LD50: 7.060 mg/kg. ihl-rat LC50: 20,000 ppm/10H

Methyl isobutyl ketone: orl-rat LD50: 5.080 mg/kg. ihl-rat LC50: 8.000 ppm/4H

Hexane: orl-rat LD50: 28.710 mg/kg, ihl-hmn TCLO: 5.000 ppm/10M

Phloroglucinol: sub-rat TDlo: 5mg/kg

Effects of Overexposure:

Acute: See section 3

Chronic: Ethyl alcohol: Mutation data cited. Reproductive effects data cited. Turmorigenic data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Methyl isbutyl ketone: No chronic effects data found. Not listed as causing cancer by IARC, NTP, or OSHA.

Hexane: Mutation data cited. Reproductive effects data cited. Not listed as causing cancer by IARC, NTP, or OSHA.

Phloroglucinol: Mutation and reproductive data cited. Not listed as causing cancer by NTP, IARC or OSHA.

Conditions Aggravated by Overexposure: Pre-existing conditions of the skin, eyes, throat, liver.

Target Organs: Skin, eyes, nose, throat

Primary Route(s) of Entry: Ingestion, inhalation

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12. ECOLOGICAL DATA

EPA Waste Numbers: Methyl isobutyl ketone (U161) is considered a hazardous waste if and when it is discarded.

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.

Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Description: Flammable liquids, n.o.s. (ethanol, methyl isobutyl ketone, hexane), 3, UN1993, II

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec. 261.33
		Name List	Chemical Category		
Ethyl alcohol	No	No	No	No	No
Methyl isobutyl ketone	No	Yes	No	5000	Yes
Hexane	No	No	No	No	No
Phloroglucinol	No	No	No	No	No

16. ADDITIONAL INFORMATION

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. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and
Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit

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16. ADDITIONAL INFORMATION (Cont.)

ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act