

Safety Data Sheet according to GHS Regulations

Printing date 01.29.2017

Revision: 01.29.2017

1 Identification

Product Name: LACTOPHENOL COTTON BLUE STAIN

Other Means of Identification: Mixture

Other Name: Lactophenol Blue

Product Code: C4635

Recommended Use of the Chemical and Restriction on Use:

For use in hospital and pathology laboratories as a mounting medium for fungi studies.

Details of Manufacturer or Importer:

Lab Alley, LLC
22111 Highway 71 West, Suite 601
Spicewood, Texas 78669
512-668-9918

Emergency telephone number Chemtrec®: 800-424-9300

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



skull and crossbones

Acute Toxicity (Oral) 3 H301 Toxic if swallowed.

Acute Toxicity (Dermal) 3 H311 Toxic in contact with skin.

Acute Toxicity (Inhalation) 3 H331 Toxic if inhaled.



health hazard

Germ Cell Mutagenicity 2 H341 Suspected of causing genetic defects.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



corrosion

Skin Corrosion/Irritation 1B H314 Causes severe skin burns and eye damage.

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



STOT SE 3 H335 May cause respiratory irritation.

Signal Word Danger

Hazard Statements

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

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H331 Toxic if inhaled.

H314 Causes severe skin burns and eye damage.

H341 Suspected of causing genetic defects.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

P260 Do not breathe dusts or mists.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P314 Get medical advice/attention if you feel unwell.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** No reportable hazardous substances or complex substances.**Hazardous Components:**

50-21-5	lactic acid ⚠ Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319; STOT SE 3, H335	20%
108-95-2	phenol ⚠ Acute Toxicity (Oral) 3, H301; Acute Toxicity (Dermal) 3, H311; Acute Toxicity (Inhalation) 3, H331; ⚠ Germ Cell Mutagenicity 2, H341; STOT RE 2, H373; ⚠ Skin Corrosion/Irritation 1B, H314	20%

Non Hazardous Components:

56-81-5	1,2,3-Propanetriol	40%
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Additional information:

Aniline Blue C.I. 42755 - CAS No. not supplied - 0.05%

Or Cotton Blue C.I. - CAS No. not supplied - 0.005%

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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Do not use direct mouth to mouth method if victim ingested or inhaled substance. Use alternative respiratory method or proper respiratory device. Seek immediate medical attention.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek immediate medical attention.

Eye Contact:

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek immediate medical attention.

Ingestion:

If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. Causes severe irritation to the nose, throat and respiratory system, dizziness, headache, incoordination, chest pains, coughing, respiratory paralysis and or failure.

Skin Contact: Toxic by skin contact. Causes burns to the skin, redness, blistering, localized pain and dermatitis.

Eye Contact: Causes burns to the eyes, pain, tearing and conjunctivitis. If duration of exposure is long enough, blindness will occur.

Ingestion: Toxic if swallowed. Causes burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

5 Fire Fighting Measures

Suitable Extinguishing Media: Dry chemical, carbon dioxide, foam or water spray.

Specific Hazards Arising from the Chemical:

If product is exposed to excessive heat, decomposition may occur, releasing noxious, corrosive and toxic fumes and gases.

May burn but do not ignite readily.

Containers may explode when heated. Use water spray to spray to cool fire-exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

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7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or reuse. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container, tightly closed when not in use. Eliminate any sources of ignition.

8 Exposure controls and personal protection

Exposure Standards:**108-95-2 phenol**

WES	TWA: 4 mg/m ³ , 1 ppm
	Sk

56-81-5 1,2,3-Propanetriol

WES	TWA: 10 mg/m ³
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Engineering Controls:

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Respiratory Protection:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Skin Protection:

Wear appropriate protective gloves and clothing to prevent skin exposure.

Eye and Face Protection:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Blue viscous
Odour:	Odourless

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Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	~0 °C
Initial Boiling Point/Boiling Range:	100 °C
Flash Point:	Not applicable
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	Not applicable
Upper:	Not applicable
Vapour Pressure:	No information available
Relative Density at 20 °C:	1.19
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Soluble in all proportions
Partition Coefficient (n-octanol/water):	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Wide range of possible chemical entities depending upon reaction kinetics most are hazardous yields elemental oxides.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.

Conditions to Avoid: Heat, sparks, open flames and other sources of ignition.

Incompatible Materials: Strong alkalis, acids, nitrates and oxidizing agents.

Hazardous Decomposition Products: Noxious, corrosive and toxic fumes and gases.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****108-95-2 phenol**

Oral	LD ₅₀	317 mg/kg (rat)
Dermal	LD ₅₀	850 mg/kg (rabbit)

56-81-5 1,2,3-Propanetriol

Oral	LD ₅₀	12600 mg/kg (rat)
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Acute Health Effects**Inhalation:**

Toxic if inhaled. Causes severe irritation to the nose, throat and respiratory system, dizziness, headache, incoordination, chest pains, coughing, respiratory paralysis and or failure.

Skin: Toxic by skin contact. Causes burns to the skin, redness, blistering, localized pain and dermatitis.

Eye:

Causes burns to the eyes, pain, tearing and conjunctivitis. If duration of exposure is long enough, blindness will occur.

Ingestion:

Toxic if swallowed. Causes burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.

Skin Corrosion / Irritation: Causes severe skin burns.

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Serious Eye Damage / Irritation: Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:**

Suspected of causing genetic defects.

Phenol is classified by Safe Work Australia as Mutagen Category 3.

Carcinogenicity: This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:**

Prolonged or repeated exposure may lead to irreversible damage to health.

Prolonged or repeated skin contact will lead to necrosis (death) of the skin.

Existing Conditions Aggravated by Exposure: No information available

12 Ecological Information

Ecotoxicity: No information available**Aquatic toxicity:** No information available**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available**Other adverse effects:** No information available

13 Disposal considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport information

UN Number

ADG, IMDG, IATA

UN2927

Proper Shipping Name

ADG, IMDG, IATA

TOXIC LIQUID, CORROSIVE, ORGANIC,
N.O.S.(Phenol / Lactic acid solution)**Dangerous Goods Class****ADG Class:**

6.1 Toxic substances.

Subsidiary Risk:

8

Packing Group:

ADG, IMDG, IATA

II

Marine pollutant:

No

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EMS Number: F-A,S-B
Hazchem Code: 2XE
Special Provisions: 274
Limited Quantities: 100mL
Packagings & IBCs - Packing Instruction: P001, IBC02
Portable Tanks & Bulk Containers - Instructions: T11
Portable Tanks & Bulk Containers - Special Provisions: TP2, TP27

15 Regulatory information

Australian Inventory of Chemical Substances:

108-95-2	phenol
50-21-5	lactic acid
56-81-5	1,2,3-Propanetriol

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:
 Poisons Schedule: 6

16 Other information

Date of Preparation or Last Revision: 01.29.2017

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC₅₀: Lethal concentration, 50 percent
 LD₅₀: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Acute Toxicity (Oral) 3: Acute toxicity – Category 3
 Skin Corrosion/Irritation 1B: Skin corrosion/irritation – Category 1B
 Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2
 Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1
 Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A
 Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation