

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name	Lacto Phenol Cotton Blue Solution
CAS number	See Section 3
Synonyms	Lactophenol Blue

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Laboratory Chemicals
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1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Toxic if swallowed.
Toxic in contact with skin.
Toxic if inhaled.
Causes severe skin burns and eye damage.
Suspected of causing genetic defects.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Specific treatment (see on this label).
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
IF exposed or concerned: Get medical advice/attention.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Get medical advice/attention if you feel unwell.
Take off immediately all contaminated clothing and wash it before reuse.
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/container in accordance with local/regional/national regulations.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

No information available.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Lactic acid	No information available	50-21-5	20%
Phenol	No information available	108-95-2	20%
1,2,3-Propanetriol	No information available	56-81-5	40%

Aniline Blue C.I. 42755	No information available	No information available	0.05%
Cotton Blue C.I.	No information available	No information available	0.005%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled	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.
In case of skin contact	In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek immediate medical attention.
In case of eye contact	In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek immediate medical attention.
If swallowed	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

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.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Dry chemical, carbon dioxide, foam or water spray.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

If product is exposed to excessive heat, decomposition may occur, releasing noxious, corrosive and toxic fumes and gases. May burn but does not ignite readily. Containers may explode when heated. Use water spray to spray to cool fire-exposed containers.

5.3 Special protective equipment and precautions for firefighters

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

5.4 Further information

Flash Point Not applicable

Autoignition Temperature No information available

Explosion limits

Upper Not applicable

Lower Not applicable

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

SECTION 6: Accidental release measures

6.1 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.

6.2 Environmental precautions

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

6.3 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.

6.4 Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1 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.

Hygiene measures

No information available.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

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

Incompatibilities

See Section 10.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

The Workplace Exposure Standard sets a limit of 4 mg/m³, 1 ppm Sk (TWA) for Phenol and 10 mg/m³ (TWA) for 1,2,3-Propanetriol.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

No information available

US. ACGIH Threshold Limit Values

No information available

US. NIOSH: Pocket Guide to Chemical Hazards

No information available

Biological occupational exposure limits

No information available

8.2 Exposure controls

Appropriate 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.

Personal protective equipment

Eye/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.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

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

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.

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Blue Viscous
Odor	Odourless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	~0 °C
Boiling Point/Range	100 °C
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	No information available
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	1.19
Solubility	Soluble in all proportions
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	No information available
Molecular Weight	No information available

VOC Content(%)	No information available
Oxidizing properties	No information available

9.2 Other safety information No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

See Section 10.2.

10.2 Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Heat, sparks, open flames and other sources of ignition.

10.5 Incompatible materials

Strong alkalis, acids, nitrates and oxidizing agents.

10.6 Hazardous decomposition products

Noxious, corrosive and toxic fumes and gases.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phenol	317 mg/kg (rat)	850 mg/kg (rabbit)	Not listed.
1,2,3-Propanetriol	12600 mg/kg (rat)	Not listed.	Not listed.

Skin corrosion/irritation

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

Serious eye damage/eye irritation

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

Respiratory or skin sensitization

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.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Reproductive toxicity

Based on classification principles, the classification criteria are not met.

Chronic 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.

11.2 Additional Information

No information available

SECTION 12: Ecological information**12.1 Toxicity**

No information available

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Dispose according to applicable local and state government regulations. Please consult your state Land Waste Management Authority for more information.

SECTION 14: Transport information

DOT (US)

UN Number	UN2927
Proper Shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(Phenol / Lactic acid solution)
Hazard Class	6.1
Packaging Group	II

IMDG

UN Number	UN2927
Proper Shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(Phenol / Lactic acid solution)
Hazard Class	6.1
Packaging Group	II

IATA

UN Number	UN2927
Proper Shipping name	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S.(Phenol / Lactic acid solution)
Hazard Class	6.1
Packaging Group	II

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

No information available.

CERCLA Hazardous Substance List (40 CFR 302.4)

No information available.

SARA 304 Emergency release notification

No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

No information available.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No information available.

SARA 311/312 Hazardous

No information available.

SARA 313 (TRI reporting)

No information available.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

No information available.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available.

Safe Drinking Water Act

No information available.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available.

US state regulations

US. Massachusetts RTK - Substance List

No information available.

US. New Jersey Worker and Community Right-to-Know Act

No information available.

US. Pennsylvania Worker and Community Right-to-Know Law

No information available.

California Proposition 65

No information available.

SECTION 16: Other information

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SECTION 17: 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.