



Safety Data Sheet

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Infosafe No™ 3CHIU Issue Date : October 2019 RE-ISSUED by ABS

Product Name : **LACTOPHENOL COTTON BLUE**

Classified as hazardous

1. Identification

GHS Product Identifier	LACTOPHENOL COTTON BLUE
Product Code	ALCB
Company Name	AUSTRALIAN BIOSTAIN Pty Ltd
Address	24 - 28 Stratton Drive, Traralgon, Victoria, Australia, 3844 www.australianbiostain.com.au
Telephone/Fax Number	Tel: (03) 5176 2855
Emergency phone number	CHEMCALL (24 hours): 1800 127 406 (Australia) / +64-4-917-9888 (International)
Recommended use of the chemical and restrictions on use	Laboratory use only.
Other Information	Australian Biostain Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Australian Biostain Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Australian Biostain Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the substance/mixture	Acute Toxicity - Dermal: Category 3 Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 3 Germ Cell Mutagenicity: Category 1 Specific Target Organ Toxicity - Repeated Exposure: Category 2 Eye Damage/Irritation: Category 1 Skin Corrosion/Irritation: Category 1B
Signal Word (s)	DANGER
Hazard Statement (s)	H301 Toxic if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H341 Suspected of causing genetic defects. H373 May cause damage to organs through prolonged or repeated exposure. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.
Pictogram (s)	Skull and crossbones, Health hazard, Corrosion



Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required.
Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water.



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Precautionary statement – Storage
Precautionary statement – Disposal

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P361 Remove/Take off immediately all contaminated clothing.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Chemical Characterization	Liquid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Glycerol	56-81-5	40 %v/v		
	Lactic acid	79-33-4	20 %v/v		
	Phenol	108-95-2	20 w/v		
	Methyl blue	28983-56-4	<0.1 %		
	Water to make a total of 100%	7732-18-5	-		

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention immediately.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Most important symptoms/effects, 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.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Special Protective Equipment for fire fighters When fighting a major fire wear self-contained breathing apparatus and protective equipment.

Specific Methods Use foam, dry chemical, CO2 or water spray.



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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.
Hazchem Code 2XE

6. Accidental release measures

Personal Precautions 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.
Personal Protection Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
Environmental Precautions Use appropriate containment to avoid environmental contamination.

7. Handling and storage

Precautions for Safe Handling Avoid contact with skin, eyes and clothing. Wear appropriate protective clothing, safety glasses, gloves. Wash hands and face thoroughly after working with material. Areas in which people handle this chemical should be equipped with safety showers. Remove contaminated clothing and wash before re-use. Avoid inhalation and ingestion. Under no circumstances eat, drink or smoke while handling this material. Use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Conditions for safe storage, including any incompatibilities Store in tightly closed containers, in a cool, dry, ventilated area away from sources of heat or ignition.
Storage Regulations Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Glycerol			10		As Glycerin mist
	Phenol			4	1	
Other Exposure Information	These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. The TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week.					
Appropriate engineering controls	Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.					
Respiratory Protection	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.					
Eye Protection	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.					
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments.					



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Personal Protective Equipment	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
Body Protection	Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. Physical and chemical properties

Form	Liquid
Appearance	Blue viscous
Odour	Odourless
Melting Point	~0°C
Boiling Point	Approx 100°C at 100kPa.
Relative density	1.19

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons.
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.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Phenol LD50 317 mg/kg (Rat)
Acute Toxicity - Dermal	Phenol LD50 850 mg/kg (rabbit)
Ingestion	Toxic if swallowed. Causes burns to the mouth, mucous membranes, throat, oesophagus and stomach. If sufficient quantities are ingested (swallowed) death may occur.
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.
Respiratory sensitisation	Based on classification principles, the classification criteria are not met.
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 2.
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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.
Serious eye damage/irritation	Causes serious eye damage.
Mutagenicity	Germ Cell Mutagenicity: Category 2 H341 Suspected of causing genetic defects.
Skin corrosion/irritation	Causes severe skin burns.

12. Ecological information

Ecotoxicity	No ecological data available for this product.
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Environmental Protection Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Disposal Considerations Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Information Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: -Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

U.N. Number 2927

UN proper shipping name TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. - (Contains Phenol/Lactic acid solution)

Transport hazard class(es) 6.1

Sub.Risk 8

Hazchem Code 2XE

Packaging Method 3.8.6.1RT7,RT8

Packing Group II

EPG Number 6J4

IERG Number 36

15. Regulatory information

Regulatory Information All of the significant ingredients in this formulation are compliant with NICNAS regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule S6

16. Other Information

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.
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