

Material Safety Data Sheet

CS: 1.4.21

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Infosafe NoTM 1CH1G Issue Date : March 2009 -ISSUED by CHEMSUPP CS: 1.4.21Product Name **BROMOTHYMOL BLUE**

Not classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	BROMOTHYMOL BLUE		
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)		
Address	50 Bedford Street GILLMAN SA 5013 Australia		
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001		
Recommended Use	pH indicator: pH 6.0 (yellow) to pH 7.6 (blue).		
Other Names	<u>Name</u>	<u>Product Code</u>	
	Dibromothymolsulphonphthalein		
	3',3''-Dibromothymolsulfonphthalein		
	BROMOTHYMOL BLUE	BL053	
	Bromthymol blue		
	BTB		

Additional Information To prepare a solution for use as pH indicator:
-dissolve 0.10 g in 8.0 ml N/50 NaOH and dilute with water to 250 ml; or
-dissolve 0.10 g in 100 ml 50% alcohol.

Other Information EMERGENCY CONTACT NUMBER: +61 08 8440 2000
Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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. HAZARDS IDENTIFICATION

Hazard Classification	Not classified as hazardous according to criteria of NOHSC NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	Not classified as hazardous according to criteria of NOHSC
Irritancy of Product	May cause irritation upon contact with skin and eyes.
Sensitization of Product	No information available.
Teratogenicity	No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Solid				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Bromothymol blue	76-59-5	100 %		
Other Information	Commonly used as the water-soluble sodium salt [34722-90-2] or as a solution in dilute sodium hydroxide or alcohol/water.				

4. FIRST AID MEASURES

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Inhalation	Remove victim to fresh air. Seek medical advice if effects persist.
Ingestion	Give water to drink. DO NOT induce vomiting. If vomiting occurs give further water to achieve effective dilution. Seek immediate medical assistance.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice.
Eye	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Specific Methods	Small fire: Use dry chemical, CO ₂ , water spray or foam. Large fire: Use water spray, fog or foam. If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.
Specific Hazards	May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases. In sufficient quantity and reduced particle size is capable of creating a dust explosion.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid generating and inhaling dust. Where possible, use solution.
Conditions for Safe Storage	Store in a cool, dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Other Exposure Information	A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by NOHSC Australia for this product. There is a blanket limit of 10 mg/m ³ for dusts or mists when limits have not otherwise been established.
Engineering Controls	In industrial situations 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	Rubber or plastic gloves recommended. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
Body Protection	Wear suitable protective clothing to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

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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 Solid

Appearance Yellow, cream-coloured, slight-pink or green crystals.

Odour Odourless.

Melting Point 204 °C

Solubility in Water Sparingly soluble.

Solubility in Organic Solvents Soluble in alcohol, ether and alkaline solution. Less soluble in benzene, toluene and xylene.

Specific Gravity 0.45 (bulk).

Flammability Non combustible.

Molecular Weight 624.40

Other Information Acidity: pK = 7.1

10. STABILITY AND REACTIVITY

Chemical Stability Stable in air.

Conditions to Avoid Heat, flames, ignition sources and incompatibles.

Incompatible Materials Strong acids and bases, strong reducing agents and strong oxidising agents.

Hazardous Decomposition Products Oxides of sulfur and carbon, and hydrogen bromide gas.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Inhalation Dusts or mists might be irritating.

Ingestion Large doses may cause nausea, vomiting and diarrhoea.

Skin Dusts or mists might be irritating.

Eye Dusts or mists might be irritating.

Chronic Effects Very rarely, allergic reactions occur to a related chemical, phenolphthalein. Allergic reactions to bromothymol blue might occur.

Reproductive Toxicity No information available.

Mutagenicity No information available.

Carcinogenicity No evidence of carcinogenic properties.

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data available for this product.

Persistence / Degradability No persistence/degradability data available for this product.

Mobility No mobility data available for this product.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of according to relevant local, state and federal government regulations.

14. TRANSPORT INFORMATION

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Transport Information Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG).

15. REGULATORY INFORMATION

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule Not Scheduled

16. OTHER INFORMATION

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**
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Empirical Formula & Structural Formula Literature References

C27 H28 Br2 O5 S

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Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.
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Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids.
Standards Australia, 'SAA/SNZ HB 76:2004 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, August 2004.
Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004)]', AusInfo, Canberra 2004.
Worksafe Australia, 'Hazardous Substances Information System, 2005'.
Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]', AGPS, Canberra 1994.
Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo, Canberra 1995.

User Codes

<u>User Field Title</u>	<u>User Code</u>
CAS No.	76-59-5
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