

Material Safety Data Sheet

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Infosafe No.	1CH90	Issue Date : March 2006	RE-ISSUED by CHEMSUPP
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Product Name : **BUFFER SOLUTIONS**

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address 50 Bedford Street GILLMAN
SA 5013 Australia
Tel/Fax Tel: (08) 8440-2000 Fax: (08) 8440-2001
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.

IDENTIFICATION

Product Name	BUFFER SOLUTIONS	
Other Names	Name	Product Code
	BUFFER SOLUTION pH 4.0 Colour-coded Red	BL047
	BUFFER SOLUTION pH 4.0 Colourless	BL076
	BUFFER SOLUTION pH 6.8 Colourless	BL075
	BUFFER SOLUTION pH 7.0 Colour-coded Green	BL048
	BUFFER SOLUTION pH 7.0 Colourless	BL077
	BUFFER SOLUTION pH 9.2 Colour-coded Turquoise	BL100
	BUFFER SOLUTION pH 10.0 Colour-coded Blue	BL019
	BUFFER SOLUTION pH 10.0 Colourless	BL078
UN Number	None Allocated	
DG Class	None Allocated	
Packing Group	None Allocated	
Hazchem Code	None Allocated	
Poisons Schedule	Not Scheduled	
Product Use	Laboratory reagent.	

Physical Data

Appearance Colourless, red, green, turquoise or blue solution.
Melting Point (Buffer pH 6.8) -5 °C
Boiling Point ~100 °C
Specific Gravity 1.0 (approx)
Solubility in Water Miscible.

Other Properties

pH Value As stated on label.
Form Liquid

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Stability Stable under normal temperatures and pressures.

Other Information Limited shelf life: Expiry date on the label.

Ingredients

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Water	7732-18-5	96-100 %		
	Potassium hydrogen phthalate	877-24-7	0-5 %		
	Sodium hydrogen carbonate	144-55-8	0-2 %		
	Potassium dihydrogen orthophosphate	7778-77-0	0-2 %		
	Sodium carbonate, anhydrous	497-19-8	0-1 %	Xi	R36
	di-Potassium hydrogen orthophosphate	7758-11-4	0-1 %		
	Methyl 4-Hydroxybenzoate	99-76-3	0-0.5 %		
	Sodium hydroxide	1310-73-2	0-0.05 %	C+	R35
	Sodium azide	26628-22-8	0-0.04 %	T+	R28, R32
	Blue dyestuff (only in colour coded solutions)		0-0.01 %		
	Green Dyestuff (only in colour coded solutions)		0-0.01 %		
	Red Dyestuff (only in colour coded solutions)	915-67-3	0-0.01 %		

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed May cause irritation to mouth, throat and stomach.

Acute - Eye May be an eye irritant.

Acute - Skin Repeated or prolonged skin contact may lead to irritation.

Acute - Inhaled May cause irritation to the mucous membrane and respiratory tract.

First Aid

Swallowed Rinse mouth thoroughly with water immediately. Give water to drink, provided patient is conscious. If swallowed, do NOT induce vomiting. In severe cases obtain medical attention.

Eye Irrigate with copious quantity of water for 15 minutes. Seek medical assistance if symptoms persist.

Skin Wash affected areas with copious quantities of water. If irritation occurs seek medical advice.

Inhaled Remove victim to fresh air.

First Aid Facilities Maintain eyewash fountain and drench facilities in work area.

Other Information For advice, contact a Doctor or Poisons Information Centre. Phone 13 1126 from anywhere in Australia, or a doctor.

Advice to Doctor

Advice to Doctor Treat symptomatically.

Other Health Hazard Information

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PRECAUTIONS FOR USE

Exposure Limits	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium hydroxide			2		Peak limitation
	Sodium azide			0.3	0.11	Peak limitation

Eng. Controls No special ventilation required.

Personal Protection

Respirator Type (AS 1716)	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and respirator type depends on exposure levels.
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.
Glove Type	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Plastic or rubber gloves.
Clothing	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.
Work/Hygienic Practices	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

Flammability

Fire Hazards Non combustible material.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions	Keep container tightly closed and dry, away from direct sunlight. Store at an even temperature between 15 - 25 °C.
Handling	Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Spills and Disposal

Spills & Disposal	Wash area down with excess water.
Disposal Considerations	Dispose of according to relevant local, state and federal government regulations.

Fire/Explosion Hazard

Fire/Explos. Hazard	Material does not burn. Runoff may pollute waterways. Fire or heat may produce irritating, poisonous and/or corrosive fumes. Containers may explode when heated.
Hazchem Code	None Allocated

OTHER INFORMATION

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References

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Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley & Sons, Inc., NY, 1997.

National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.

South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances', 1995.

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.

Ecological Information

No ecological problems are to be expected when the product is handled and used with due care and attention.

Ecotoxicity

Quantitative data on the ecological effect of this product are not available.

CONTACT POINT

Contact

Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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