

# Material Safety Data Sheet

## BUFFER SOLUTION PH 9.22

Infosafe™ JXFL5 Issue Date September 2007 Status ISSUED by BS: 1.9.21  
No. AJAXFC

Not classified as hazardous according to criteria of NOHSC

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** BUFFER SOLUTION PH 9.22  
**Product Code** A19  
**Company Name** Ajax Finechem (ABN 64 121 927 786)  
**Address** 17/21 Bay Road Taren Point  
NSW 2229  
**Emergency Tel.** 1800 638 556 (24 hr) Aust / (NZ): 0800 154 666  
**Telephone/Fax Number** Tel: 1300 884 078

Other Names	Name	Product Code
	BUFFER SOLN PH 9.2	2204
	PH9.2 COL.CODED BUFF SOLN(TURQ)	2492
	PH9.2 CLEAR BUFFER SOLUTION	8182
	BUFFER SOLUTION PH 9.22	A19500

**Other Information** NEW ZEALAND: Ajax Finechem (NZ) Ltd  
150B Harris Road, East Tamaki, Auckland  
Phone (09) 273 4343  
Fax (09) 273 4341  
Emergency Advice (NZ): Phone 0800 154 666

### 2. HAZARDS IDENTIFICATION

**Hazard Classification**

Australia:  
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:

Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.

**Risk Phrase(s)**

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredients	Name	CAS	Proportion
	Sodium Azide	26628-22-8	0.01 %
	Sodium Tetraborate	1303-96-4	0-10 %
	Water to make total of 100%		-

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### 4. FIRST AID MEASURES

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<b>Inhalation</b>	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Contact a Poisons Information Centre (Phone eg Australia 131 126) or a doctor.
<b>Skin</b>	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse. If symptoms develop seek medical attention.
<b>Eye</b>	If eye contact occurs wash out immediately with plenty of water. If symptoms persist seek medical attention.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically or consult a Poisons Information Centre.

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### 5. FIRE FIGHTING MEASURES

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<b>Suitable Extinguishing Media</b>	Use appropriate fire extinguisher for surrounding environment.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including oxides of boron and sodium.

**Specific**

**Hazards** This product is non-combustible.

**Precautions in connection with Fire** Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Emergency Procedures**

Remove all sources of heat. Increase ventilation. Wear appropriate breathing apparatus and full protective clothing to minimise skin and eye exposure. Place inert, non-combustible absorbent such as vermiculite, sand or dirt onto material. Collect the material and place into a suitable labelled container for subsequent disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

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## 7. HANDLING AND STORAGE

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**Precautions for Safe Handling** Use in a well ventilated area. Build up of mists or vapours in the atmosphere must be prevented. Avoid breathing in mists or vapours. Wear appropriate protection. It is essential that all who come into contact with this material maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

**Conditions for Safe Storage** Store in a cool, dry place out of direct sunlight. Keep containers closed when not in use. Store away from incompatible materials.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**National Exposure Standards**

No value assigned for this specific material by the Australian National Occupational Health and Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits on the ingredients are as follows:

Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance	TWA	STEL			
ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Sodium Azide	0.11	0.3	-	-	Peak limitation
Sodium Tetraborate	-	1	-	-	
Anhydrous	-	1	-	-	
Decahydrate	-	5	-	-	
Pentahydrate	-	1	-	-	

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance	TWA	STEL			
ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>		
Sodium Azide	0.11	0.29	-	-	Ceiling

Sodium Tetraborate - 1 - -  
Anhydrous - 1 - -  
Decahydrate - 5 - -  
Pentahydrate - 1 - -

As with all chemicals, exposure should be kept to the lowest possible levels.

**Biological  
Limit Values**

Not available

**Engineering  
Controls**

Ensure sufficient ventilation to maintain airborne concentrations below exposure limits. Local exhaust ventilation may be required.

**Respiratory  
Protection**

If engineering controls are not effective in controlling airborne exposure then a supplied air respirator should be used. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716.

**Eye Protection**

Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

Impervious PVC or rubber gloves should be worn.

**Personal  
Protective  
Equipment**

Rubber gloves.

**Body Protection**

Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.

**Hygiene  
Measures**

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance**

Colourless liquid or turquoise colour coded buffer.

**Melting Point**

Not available

**Boiling Point**

Not available

**Solubility in  
Water**

Not available

**Specific  
Gravity**

Not available

**pH Value**

9.2

**Vapour Pressure**

Not available

**Flash Point**

Not applicable

**Flammability** This product is non-combustible.

**Flammable  
Limits - Lower** Not applicable

**Flammable  
Limits - Upper** Not applicable

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## 10. STABILITY AND REACTIVITY

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**Chemical  
Stability** Stable.

**Incompatible  
Materials** Strong reducing agents.

**Hazardous  
Polymerization** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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**Toxicology  
Information** Sodium tetraborate, Oral Lowest Lethal Dose(man): 709 mg/kg

**Inhalation** No likely effects. Inhalation of vapours or mists generated at elevated temperatures may irritate the respiratory system.

**Ingestion** Ingestion of large amounts may cause nausea, vomiting and CNS depression with symptoms including dizziness, drowsiness, weakness, headache, nausea, fatigue and possible unconsciousness. May cause kidney damage.

**Skin** Skin contact may cause redness, itchiness and irritation.

**Eye** Eye contact may cause stinging, blurring and tearing.

**Chronic Effects** Chronic ingestion may have similar effects to those seen for acute ingestion.

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## 12. ECOLOGICAL INFORMATION

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**Ecotoxicity** Not available

**Persistence /  
Degradability** Not available

**Mobility** Not available

**Bioaccumulative  
Potential** Not available

**Environment  
Protection** Avoid contaminating waterways.

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### 13. DISPOSAL CONSIDERATIONS

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

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### 14. TRANSPORT INFORMATION

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**Transport Information** Australia:  
Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Not Classified as Dangerous Goods according to New Zealand Standard 5433:1999 - Transport of Dangerous Goods on Land.

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### 15. REGULATORY INFORMATION

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**Regulatory Information** Australia:  
Not classified as hazardous according to criteria of Australian National Occupational Health & Safety Commission (NOHSC).  
Poison Schedule: Not Scheduled

**Poisons Schedule** Not Scheduled

**National and or International Regulatory Information** New Zealand:  
Not classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

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### 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS** MSDS reviewed: September 2007  
MSDS superseded: September 2002

**Contact Person/Point** For further information contact Tom Sadler on 1300 884 078 during business hours. In case of emergency call Australia 1800 638 556/ New Zealand 0800 154 666.

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Ajax Finechem Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of

which is sent to our customers and is also available on request.

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End of MSDS

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