



Material Safety Data Sheet

CS: 1.4.46

Infosafe No™ ACRR0	Issue Date :May 2009	ISSUED by POOLSPAP
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Product Name : **BUFFER**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name BUFFER

Company Name POOL & SPA POPPITS PTY. LTD. (ABN 53 569 007 940)

Address 12 Conquest Way Hallam
VIC 3803 Australia

Emergency Tel. (03) 8795 7155

Telephone/Fax Number Tel: (03) 8795 7155
Fax: (03) 8795 7144

Email info@poolpoppits.com.au.

Recommended Use To maintain a constant pH. Total Alkalinity controls the amount of pH change acting as a Buffer or resistance to change.

Other Names

<u>Name</u>	<u>Product Code</u>
POPPIT ALKALINITY INCREASER (BUFFER)	
SODIUM BICARBONATE	
POPPIT BUFFER	
POPPIT WATER BALANCE	

2. HAZARDS IDENTIFICATION

Hazard Classification Not classified as hazardous according to criteria of NOHSC.
Not classified as a Dangerous Good according to the ADG Code.

Safety Phrase(s) S25 Avoid contact with eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Sodium bicarbonate	144-55-8	99-100 %

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.

Ingestion Wash out mouth with water. If symptoms develop seek medical attention.

Skin Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If symptoms develop, seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.

First Aid Facilities Eye wash and normal washroom facilities.

Advice to Doctor Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use appropriate fire extinguisher for surrounding environment.

Hazards from Combustion Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Products Specific Hazards Non combustible

Decomposition Temp. 270°C

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES



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Emergency Procedures Increase ventilation. Do not breathe dust. Wear protective clothing ie gloves, masks to minimise exposure. Recover quickly, non contaminated material into a suitable, dry containers for re-use. Recover waste material into a separate container, ready for disposal. Use water to wash off residue from surfaces. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of dust in the work atmosphere. Avoid inhalation of dust, and skin or eye contact. Maintain high standards of personal hygiene ie. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Keep in cool, dry, well ventilated area, out of direct sunlight and moisture. Keep containers closed when not in use. Avoid storage with incompatible materials such as acids, monoammonium phosphate, sodium-potassium alloy and 2-furaldehyde. Store away from stainless steel, nickel and its alloys. Check regularly for spills/leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for dust not otherwise specified is 10 mg/m³.
TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

Biological Limit Values No biological limit allocated.

Engineering Controls Use with good general ventilation. For industrial applications, if dust is produced local exhaust ventilation should be used.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection For industrial applications, the use of chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

Hand Protection For industrial applications, the use of impervious chemical (synthetic rubber, neoprene) gloves recommended. Final choice of appropriate gloves will vary according to individual circumstances ie. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.

Body Protection For industrial applications, suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance White, crystalline powder.

Odour Odourless

Decomposition Temperature 270°C

Melting Point Not available

Boiling Point Not applicable

Solubility in Water 9.5 (n-Butyl acetate =1)

Specific Gravity 2.16

pH Value 8.3 (0.1M solution) at 25°C

Vapour Pressure Not available



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Vapour Density (Air=1)	Not available
Evaporation Rate	Not applicable
Viscosity	Not applicable
Volatile Component	Not available
Flash Point	Not applicable
Flammability	Not combustible. Decomposes at high temperature.
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions. Slowly decomposes in moist air.
Conditions to Avoid	Heat, moisture.
Incompatible Materials	Reacts with acids liberating heat and carbon dioxide gas. Avoid monoammonium phosphate, sodium-potassium alloy and 2-furaldehyde. Will act as a corrosive to stainless steel, nickel and its alloys.
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Acute toxicity data: LD50 (Oral,Rat): 4220 mg/kg
Inhalation	Dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure can include sneezing and coughing.
Ingestion	Ingestion of large amounts may cause irritation to the mouth, oesophagus, and stomach. Symptoms can include nausea, vomiting and possible abdominal pain.
Skin	May cause abrasive irritation in contact with the skin, which can result in redness and itching.
Eye	May cause abrasive irritation in contact with the eyes, which can result in redness and lachrymation.
Chronic Effects	Prolonged or repeated contact with this material may result in skin irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
Persistence / Degradability	Not available
Mobility	Not available
Environ. Protection	Prevent this material from entering the environment.
Acute Toxicity - Fish	96hr LC50 (Lepomis macrochirus) = 8600 mg/L

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to Environmental Protection Authority, federal, state and local regulations.
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14. TRANSPORT INFORMATION

Transport Information	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packaging Method	4kg & 10kg pack.



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15. REGULATORY INFORMATION

Regulatory Information	Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
	Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	Not Scheduled

16. OTHER INFORMATION

Date of preparation or last revision of MSDS	MSDS Reviewed: May 2009 MSDS supersedes: December 2003.
Contact Person/Point	Rob Anderson - Managing Director: Ph: 61 3 8795 7155 (Business hours) Freecall: 1800 648 959 Email: info@poolpoppits.com.au. ...End Of MSDS...

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