



# Material Safety Data Sheet

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Infosafe No™ ACRR3	Issue Date : May 2009	ISSUED by POOLSPAP
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Product Name : **POPPIT CALCIUM HARDNESS INCREASER**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product Name</b>	POPPIT CALCIUM HARDNESS INCREASER	
<b>Company Name</b>	POOL & SPA POPPITS PTY. LTD. (ABN 53 569 007 940)	
<b>Address</b>	12 Conquest Way Hallam VIC 3803 Australia	
<b>Emergency Tel.</b>	(03) 8795 7155	
<b>Telephone/Fax Number</b>	Tel: (03) 8795 7155 Fax: (03) 8795 7144	
<b>Email</b>	info@poolpoppits.com.au.	
<b>Recommended Use</b>	Raising hardness levels of the pool water.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	CALCIUM CHLORIDE/ CAL PLUS	

## 2. HAZARDS IDENTIFICATION

<b>Hazard Classification</b>	HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
<b>Risk Phrase(s)</b>	R22 Harmful if swallowed. R36 Irritating to eyes.
<b>Safety Phrase(s)</b>	S2 Keep out of reach of children. S20/21 When using, do not eat, drink or smoke. S22 Do not breathe dust. S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Calcium Chloride, Dihydrate	10043-52-4	>60-100 %
	Other Ingredients Determined As Non-hazardous		Balance

## 4. FIRST AID MEASURES

<b>Inhalation</b>	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention
<b>Ingestion</b>	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
<b>Skin</b>	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.
<b>Eye</b>	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. Seek medical attention.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice in an emergency, contact the Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use appropriate fire extinguisher for surrounding environment.
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**Hazards from Combustion** Under fire conditions this product may emit toxic and/or irritating fumes and gases.

**Products Specific Hazards** Non combustible

**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

**Emergency Procedures** Increase ventilation. Evacuate all unprotected personnel. Wear sufficient respiratory protection and full protective clothing to prevent exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, then transfer material to a suitable container. Wash surfaces well with soap and water. Seal all wastes in labelled plastic containers for subsequent recycling or disposal. 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** Calcium chloride is hygroscopic. It will absorb atmospheric moisture. Store in a cool, dry, well-ventilated area below 28°C, out of moisture and heat. Store away from incompatible materials such as strong acids. Ensure containers are tightly-closed. Store away from foodstuff.

## 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/m<sup>3</sup>. 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. As with all chemicals, exposure should be to the least possible levels.

**Biological Limit Values** No biological limit allocated.

**Engineering Controls** Use with good general ventilation. If dust is produced, in industrial applications, 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** Safety glasses with side shields or chemical goggles is recommended. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** The use of impervious chemical (synthetic rubber, neoprene) gloves recommended. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

**Body Protection** Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended for industrial applications. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** White hygroscopic powder.

**Odour** Not available

**Melting Point** 772°C



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Product Name : **POPPIT CALCIUM HARDNESS INCREASER**

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<b>Boiling Point</b>	1600°C
<b>Solubility in Water</b>	1300 g/l at 25°C.
<b>Solubility in Organic Solvents</b>	Soluble in alcohol.
<b>Specific Gravity</b>	1.86 (water=1)
<b>pH Value</b>	7 - 9
<b>Vapour Pressure</b>	0.009 mmHg
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not combustible.
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

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## 10. STABILITY AND REACTIVITY

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<b>Chemical Stability</b>	Stable under normal conditions. Hygroscopic.
<b>Conditions to Avoid</b>	Heat, moisture.
<b>Incompatible Materials</b>	Most metals, yellow brass, aluminium and its alloys; sulphuric acid, methyl vinyl ether, calcium chloride with zinc, water-reactive materials such as sodium.
<b>Hazardous Decomposition Products</b>	When heated to decomposition, calcium chloride emits toxic fumes of chlorides.
<b>Hazardous Reactions</b>	Corrodes most metals when exposed to air. Attacks yellow brass, aluminium and its alloys. Reacts with sulphuric acid to form hydrogen chloride which is corrosive, irritating and reactive. Gives an exothermic reaction with water-reactive materials such as sodium. Runaway polymerisation reaction with methyl vinyl ether. Reaction of calcium chloride with zinc releases explosive hydrogen gas.
<b>Hazardous Polymerization</b>	Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Toxicology Information</b>	LD50 (Oral,Rat): 1000 mg/kg LD50 (Oral,Rabbit): 1384 mg/kg
<b>Inhalation</b>	Dust may cause irritation to the mucous membrane and upper airways. Symptoms of exposure can include sneezing and coughing.
<b>Ingestion</b>	Harmful if swallowed. Ingestion of large amounts will cause severe irritation to the mouth, oesophagus, and stomach. Symptoms can include nausea, vomiting, diarrhoea, abdominal pain.
<b>Skin</b>	May cause abrasive irritation in contact with the skin, which can result in redness and itching. May cause more severe response if skin is damp. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
<b>Eye</b>	Will cause irritation in contact with the eyes, which can result in redness and lachrymation. When dissolving, the heat produced may cause more intense effects as well as thermal burns.
<b>Chronic Effects</b>	Prolonged or repeated contact with this material may result in skin irritation and possibly dermatitis.

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## 12. ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	Not available
<b>Persistence / Degradability</b>	Not available
<b>Mobility</b>	Not available
<b>Environ. Protection</b>	Do not discharge this material into waterways, drains and sewers.



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## 13. DISPOSAL CONSIDERATIONS

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

## 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 pack.

## 15. REGULATORY INFORMATION

**Regulatory Information** 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  
**Hazard Category** Harmful, Irritant

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Reviewed: May 2009  
Supersedes: December 2003.  
**Contact Person/Point** Rob Anderson - Managing Director:  
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Freecall: 1800 648 959  
Email: info@poolpoppits.com.au.  
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