

**MATERIAL SAFETY DATA SHEET**  
**PRODUCT: CALCIUM HYPOCHLORITE 65%**  
**SOLD AS: Premium Quality Dry**

**Date of Issue: 19 July 2003**

**STATEMENT OF HAZARDOUS NATURE**

Classified as hazardous according to criteria of WorkSafe Australia

**COMPANY DETAILS**

**Company:** Premium Quality Pool Products Pty Ltd  
**Address:** 13-15 Nelson Avenue Padstow NSW 2211  
**Telephone:** (02) 9790 8777  
**Facsimile:** (02) 9790 8555

**PRODUCT IDENTIFICATION**

**Product Name:** Calcium Hypochlorite  
**Shipping Name:** Calcium Hypochlorite Mixtures, Dry with more Than 10% but not more than 65% available chlorine  
**Other Names:** Chlorinated Lime  
Calcium Hypochlorite Mancode (TECH 00000941)  
**UN Number:** 2880  
**DG Class:** 5.1  
**Packaging Group:** II  
**Hazchem Code:** 2P  
**Poisons Schedule:** S5

**PHYSICAL DESCRIPTION AND PROPERTIES**

**Appearance:** White to cream, dry free flowing powder. Chlorine odour  
**Boiling Point:** N/A  
**Vapour Pressure:** N/A  
**Specific Gravity:** N/A  
**Flash Point:** N/A  
**Flammable Limit:** N/A  
**Solubility in Water:** Appreciable

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Proportion</b>
<b>Calcium Hypochlorite</b>	<b>7778-54-3</b>	<b>100%</b>

**HEALTH HAZARD INFORMATION**

## Effects from Acute Exposure

- Ingestion:** May be harmful by ingestion. Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain and convulsions.
- Eye:** Granular solid or dust causes burns and is a severe eye irritant. Contamination of eyes can result in permanent injury.
- Skin:** Contact with skin causes burns and will result in redness or blistering.
- Inhalation:** May be harmful by dust inhalation. Inhalation of dust may result in respiratory irritation and possible harmful effects Chlorine evolved from decomposition when wet is a severe respiratory irritant, corrosive and highly toxic. Delayed effects can include shortness of breath, violent headaches, pulmonary oedema and pneumonia.
- Chronic:** No known effects

## FIRST AID

- Ingestion:** Rinse mouth with water and then give plenty of water to drink. DO NOT induce vomiting and seek medical attention if large amounts ingested.
- Eye:** If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention immediately.
- Skin:** Remove contaminated clothing and wash skin thoroughly. Decontaminate clothing before re-use or discard. If swelling, redness, blistering or irritation occurs seek medical advice.
- Inhalation:** 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 victim has stopped breathing begin artificial respiration, or if heart has stopped, cardiopulmonary resuscitation. Seek immediate medical attention.
- First Aid Facilities:** Eye wash and normal washroom facilities
- Advice to Doctor:** Treat symptomatically

## PRECAUTIONS FOR USE

## **OTHER EXPOSURE**

Evolves Chlorine: Detectable by smell at 1 - 3 ppm

## **ENGINEERING CONTROLS**

In the operation of where dusts may accumulate an exhaust ventilation or dust extraction system should be provided to maintain airborne particulates as low as is reasonably practicable.

## **PERSONAL PROTECTION**

**Respiratory:** Where ventilation is inadequate, a P1 half face piece respirator with replaceable filter or disposable face piece as specified by AS/NZS 1715 and 1716 is recommended.

**Eyes:** Suitable chemical glasses

**Hands:** Nitrile, neox or neoprene

**Other:** Impervious overalls may be required

## **FLAMMABILITY**

Fire Hazards Oxidiser, assists combustion.

<h2><b>STORAGE AND HANDLING</b></h2>
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### **STORAGE PRECAUTIONS**

Store away from organic and/or combustible agents. Reacts with water. may lead to drum rupture. Store in a cool, dry, well ventilated area, out of direct sunlight. Store in suitable, labelled containers. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks. This material is a Scheduled (S5) Poison and must be stored, handled and used according to appropriate regulations.

### **TRANSPORT**

This material is a Class 5.1 Oxidising Agent according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Class 5.1 - Oxidising Agents shall not be loaded in the same vehicle or packed in the same freight container with: Class 1 - Explosives, Class 2.1 - Flammable Gases, Class 2.3 - Poisonous Gases, Class 3 - Flammable Liquids, Class 4.1 - Flammable Solids, Class 4.2 - Spontaneously Combustible Substances, Class 4.3 - Dangerous when wet (where the poisonous substances are fire risk substances), Class 7 Radioactive substances Class 8 Corrosive Substances, Class 9 Miscellaneous Dangerous Goods (where the miscellaneous dangerous goods are fire risk substances), Fire risk substances other than dangerous goods.

### **SPILLS AND DISPOSAL**

Evacuate all unnecessary personnel. Wear protective clothing as specified in the Personnel Protection section of the MSDS. Sweep up material and place into a suitable labelled container. Avoid the creation of dust. Mop up the remaining material and place into the same container. If large quantities of the material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority. Dispose of in accordance with Federal, Local or State regulations.

## FIRE AND/OR EXPLOSION HAZARD

<b>Fire/Explos. Hazard:</b>	Not combustible, however ignites combustible or organic materials when in contact. Emits toxic fumes of chlorine as well as liberating oxygen, therefore dangerous in a fire situation.
<b>Fire Fighting Procedures:</b>	Wear self-contained breathing apparatus and protective clothing.
<b>Extinguish Medium:</b>	Water fog.
<b>Incompatibility:</b>	This material is an oxidising agent, and will react with many organic chemicals. Corrosive to most metals in the presence of moisture. Reacts with acids involving chlorine.
<b>Hazardous Decomposition:</b>	Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen.
<b>Hazchem Code:</b>	2P

## OTHER INFORMATION

<b>Toxicology:</b>	For Calcium Hypochlorite - (100%) acute oral LD50 (rat) 850 mg/kg.
<b>Risk Statement:</b>	R8 Contact with combustible material may cause fire. R31 Contact with acids liberates toxic gas. R34 Causes burns.
<b>Safety Statement:</b>	S2 Keep out of reach of children. S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre Ph 13 11 26. S43 In case of fire, use fog, foam or dry agent.
<b>Packaging and Labelling:</b>	As required by the ADG Code and the Standard for the Uniform Scheduling of Drugs and Poisons.
<b>Hazard Category:</b>	Corrosive

## CONTACT INFORMATION

**CONTACT: CHIEF EXECUTIVE OFFICER: (02) 9790 8777**

<b>DISCLAIMER</b>
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