

MATERIAL SAFETY DATA SHEET
PRODUCT: CALCIUM HYPOCHLORITE 70%
SOLD AS: Maxi-Clor 700

Date of Issue: 19 July 2003

STATEMENT OF HAZARDOUS NATURE

Classified as hazardous according to criteria of WorkSafe Australia

COMPANY DETAILS

Company name: International Quadratics Pty Ltd
Address: 13 Nelson Avenue NSW 2211
Telephone: 02 9790 4200
Facsimile: 02 9790 5200

PRODUCT IDENTIFICATION

Product Name: Calcium Hypochlorite
Shipping Name: Calcium Hypochlorite Mixtures, Dry with more Than 10% but not more than 70% 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

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

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 in area of use
- 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.

STORAGE AND HANDLING

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

Fire/Explos. Hazard:	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.
Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing.
Extinguish Medium:	Water fog.
Incompatibility:	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.
Hazardous Decomposition:	Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen.
Hazchem Code:	2P

OTHER INFORMATION

Toxicology:	For Calcium Hypochlorite - (100%) acute oral LD50 (rat) 850 mg/kg.
Risk Statement:	R8 Contact with combustible material may cause fire. R31 Contact with acids liberates toxic gas. R34 Causes burns.
Safety Statement:	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.
Packaging and Labelling:	As required by the ADG Code and the Standard for the Uniform Scheduling of Drugs and Poisons.
Hazard Category:	Corrosive

CONTACT INFORMATION

CONTACT: GENERAL MANAGER: (02) 9790 4200

DISCLAIMER

All information given in this data sheet and by the company's technical staff is compiled from the information currently available to the company. The company accepts no responsibility whatsoever for its accuracy, or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk, and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.