Material Safety Data Sheet

Issue Date: July 21, 2012
Product Name: CALCIUM HYPOCHLORITE 65% HY-CLOR GRANULAR POOL CHLORINE

Classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company Name: HY-CLOR AUSTRALIA PTY LIMITED
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IDENTIFICATION

Product Name: CALCIUM HYPOCHLORITE
Shipping Name: CALCIUM HYPOCHLORITE MIXTURES, DRY with more than 10% but not more than 65% available chlorine
Sold as: Hy-Clor Granular Pool Chlorine 2kg, 4kg & 10kg
Other Names: Name
Chlorinated Lime
Mancode
Calcium Hypochlorite
UN Number: 2880
DG Class: 5.1
Packaging Group: II
Hazchem Code: 2P
Poisons Schedule: S5

PHYSICAL DATA

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
Level: N/A
Solubility in Water: Appreciable
INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion</th>
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<tr>
<td>Calcium Hypochlorite</td>
<td>7778-54-3</td>
<td>100%</td>
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HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Acute - Ingestion
May be harmful by ingestion. Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain and convulsions.

Acute - Eye
Granular solid or dust causes burns and is a severe eye irritant.
Contamination of eyes can result in permanent injury.

Acute - Skin
Contact with skin causes burns and will result in redness or blistering.

Acute - 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 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

Advice to Doctor
Treat symptomatically

OTHER HEALTH HAZARD INFORMATION

PRECAUTIONS FOR USE

Other Exposure Info
Evolves Chlorine: Detectable by smell at 1 - 3 ppm

Eng. Controls
dust extraction system should be provided to maintain airborne particulates as low as is reasonably practicable.
PERSONAL PROTECTION

Protective Equipment

Respiratory Where ventilation is inadequate, a P1 half facepiece respirator with replaceable filter or disposable facepiece 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

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

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.

Other Storage Info This material is hygroscopic at high temperatures.

Ship. Name (CSN) CALCIUM HYPOCHLORITE MIXTURES, DRY with more than 10% but not more than 65% available chlorine.

SPILLS AND DISPOSAL

Spills & 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.
Disposal

Dispose of in accordance with federal, local or state regulations.

FIRE/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 Media
Water fog

Hazard Reaction:
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 evolving chlorine

Incompatibility:
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. 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 POINT

Contact
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