



Safety Data Sheet

24TH AUGUST 2016

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: HY-CLOR GRANULAR POOL CHLORINE
Shipping Name: Calcium Hypochlorite (65%)
Product Code: HYCG02-2kg, HYCG04-4kg, HYCG10-10kg, HYCG40-40kg
UN Number: UN2880
Other Names: Bleaching Powder, Calcium Salts, Chlorinated Lime

Recommended Use of the Chemical and Restrictions on Use: Swimming Pool disinfectant and Sanitiser

Chemical Formula: CA(OCL)₂
Supplier: HY-CLOR AUSTRALIA PTY LTD
Street Address: 178 Power Street
Glendenning NSW 2761

Telephone Number: 02 8805 2400
After Hours Contact: 0404 859 515
Facsimile: 02 8805 2401
Email Contact: help@hyclor.com.au
Emergency Telephone: 13 11 26 (Australia Poisons Information Centre)
New Zealand 0800 764 766

2. HAZARDS IDENTIFICATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

Poison Schedule: 6

This material is hazardous according to Safe Work Australia; HAZARDOUS SUBSTANCE.

Classification of the substance or mixture:

Oxidising Solids – Category 2
Acute Toxicity – Category 4
Skin Corrosion /Irritation – Cat 1B
Acute Hazard to Aquatic Environment – Category 1

SIGNAL WORD: DANGER





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Hazard Statement(s):

This material is hazardous

H272: Oxidiser, May intensify Fire
H302: Harmful if swallowed
H314: Causes Skin Burn and Eye Damage
H400: Very Toxic to Aquatic Life

Precautionary Statement(s) :

P210: Keep away from Sparks, No Smoking
P220: Store Away from Combustible Material
P264: Wash Hands properly after using
P270: Do not eat, drink or smoke while using this product
P260: Do no breathe Dust, smoke etc.

Response:

P370+P378: In case of fire; Use appropriate extinguisher
P301+P312: If Swallowed Call poison centre
P301, P330, P331 : If swallowed, rinse mouth, do not induce vomiting
P304+P340: If inhaled, remove victim to fresh air
P305+P351+P338: If in eyes; Rinse Cautiously with water for several minutes. Remove contact lenses

Related Information

DG Class 5.1
Packaging Group II
Hazchem Code 2P

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients | CAS | Proportion |
|----------------------|-----------|---------------------|
| Calcium Hypochlorite | 7778-54-3 | 65 – 68% (Chlorine) |
| Inert Ingredients | | 30 – 32% |



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4. FIRST AID MEASURES

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| General | Keep Victim warm and quiet. Obtain immediate medical care. Ensure that attending medical personnel are aware of the identity and nature of the product involved, and take precautionary measures to protect themselves. |
| Ingestion | DO NOT INDUCE VOMITING. Rinse mouth with water and then give plenty of water to drink. Seek medical attention if large amounts ingested. Call Poison Centre 13 11 26 |
| 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. First Aid Kit. |
| Advice to Doctor | Treat symptomatically |
| Medical Conditions that may Be Aggravated by Exposure | Asthma and respiratory and cardiovascular disease. |

5. FIRE FIGHTING MEASURES

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| Hazchem Code | 2P |
| Extinguishers | Use flooding amounts of water from a distance. Take care as contact with water will release toxic chlorine gas. Do not use foam or dry agent. |
| Fire Fighting Procedures | Wear self-contained breathing apparatus (SCBA) and protective clothing. |
| Hazardous Decomposition Products | Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen. |
| Other precautions | Not combustible, however (oxidizer) ignites combustible or organic materials when in contact. Emits toxic fumes of chlorine as well as liberating oxygen, therefore dangerous in a fire situation. Keep away from heat, sparks or naked flames. Heating may cause explosion. Contact with acids or strong alkalis may generate heat. |



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6. ACCIDENTAL RELEASE MEASURES

Spills 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. Collect with spark free tools, 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.

7. HANDLING AND STORAGE

Handling Avoid skin and eye contact and inhalation of dust. Wear appropriate protective equipment and clothing. Use in a well ventilated area. Avoid spillage onto floor. Keep containers closed when not in use. Maintain personal hygiene by washing hands prior to eating, drinking, smoking or using toilet.

Storage 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.

Incompatibilities Store away from organic and/or combustible agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards No ingredients in this product have exposure standards, as outlined in the standard *Exposure Standards for Atmospheric Contaminants in the Occupational Environment* third edition, published by the National Occupational health and Safety Commissions/AGPS, 1995.

Engineering Measures Avoid generating and inhaling dusts. Use in a well ventilated area only. Keep containers in a well ventilated area. Local exhaust ventilations system may be required, especially if chlorine gas evolved.

Personal Protection Equipment

Clothing Suitable protective clothing should be worn e.g. cotton overalls and safety shoes.

Skin Protection Impervious PVC or rubber gloves should be worn.

Eye Protection Safety glasses with side shields or goggles should be worn.

Respiratory Protection If dust exists, wear respirator meeting the requirements of AS/NZS 1716.



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Personal Hygiene

Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance | White to cream, dry free flowing powder. Chlorine odour. |
| Boiling Point | N/A |
| Freezing/Melting Point | N/A |
| Vapour Pressure | N/A |
| Specific Gravity | N/A |
| Flash Point | N/A |
| Upper Flammability Limit | N/A |
| Lower Flammability Limit | N/A |
| Solubility in Water | Appreciable |
| pH | 10.5-11.5 (1% solution) |
| Ingredient | Chlorine, TWA 1ppm, 3 mg/m ³ , STEL peak limitation ppm, mg/m ³ TWA – Time Weighted Average over an eight hour shift. |

10. STABILITY AND REACTIVITY

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| Chemical Stability | Rapidly decomposes on exposure to air. May decompose violently if exposed to heat or direct sunlight. Thermally unstable. |
| Conditions to Avoid | Avoid high temperatures and high humidity. |
| Incompatible Material | The substance is an oxidant and reacts with acids, reducing agents, organic, nitrogen containing compounds, dry powder fire extinguishers (containing mono-ammonium phosphate), corrosive, flammable or combustible materials. Forms explosive compounds with ammonia and amines. Keep away from primary aliphatic or aromatic amines, lubricating oils, damp sulphur, organic thiols or sulphides, metal oxides, nitro methane, alcohols, glycerol, phenol, diethylene glycol monoethyl ether and carbon. Contact with these products could produce ignition or explosion. Reacts with other oxidising agents such as Dichloroisocyanuric acid, dry, and its salts, and Trichloroisocyanuric acid, dry, and its salts. Reacts with water and acids releasing chlorine gas. |
| Hazardous Decomposition Products | Thermal decomposition products include toxic chlorine gas. |



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11. TOXICOLOGICAL INFORMATION

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| Toxicology Information | Dermal LD 50 (rabbit) = 1000 mg/kg Oral LD 50 (rat) = 850mg/kg Oral LD 50 (human) = >15g/kg |
| Acute Effects Swallowed | Harmful if swallowed. Ingestion may cause nausea, vomiting, shock and coma. Corrosive. Will cause severe damage to the mucous membranes, including irritation and/or burns to the entire gastrointestinal tract. This is characterised by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. May also cause circulatory collapse, cyanosis, shock, confusion, delirium and swelling of the throat or tongue resulting in obstruction of the airway. |
| Skin | Harmful in contact with skin. Corrosive to skin – causes burns. Dermal exposure can cause severe irritation and/or burns characterised by redness, swelling and scab formation. Skin contact may also cause eruptions and eczema. |
| Eye | Causes burns and is a severe eye irritant. Contact may cause impairment of vision or corneal damage. |
| Inhaled | The vapour is an irritant to the mucous membranes and respiratory tract. Inhalation of dust will result in respiratory irritation. Inhalation may result in headaches, dizziness and possible nausea. May also cause burns to the respiratory tract with the production of lung edema which can result in shortness of breath, wheezing, choking, chest pain and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage. |
| Long Term Effects | Prolonged skin exposure may cause destruction of the dermis with impairment of the skin at site of contact to regenerate. |

12. ECOLOGICAL INFORMATION

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| Ecotoxicity | Highly toxic to aquatic life. Avoid contaminating waterways. Breaks down in sunlight. Acute toxicity- Fish 0.5 ppm/trout/killed/fresh water. No further information available. |
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13. DISPOSAL CONSIDERATIONS

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| Disposal Methods and Containers | Dispose of according to relevant local, state and federal government regulations. |
| Special Precautions for Landfill | Contact a specialist disposal company for landfill. |



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14. TRANSPORT INFORMATION

UN Number 2880
Land Transport ADG
UN Proper Shipping Name Calcium Hypochlorite, hydrated
Dangerous Goods Class 5.1 Oxidising Substance
Packing Group II
Hazchem Code 2P

Special Precaution to User This material is classified as a Class 5.1 Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. Class 5.1 oxidising agents shall not be loaded or packed in the same vehicle or freight as

Class 1 Explosives
Class 2.1 Flammable Gases
Class 2.3 Toxic Gases
Class 3 Flammable Liquids
Class 4.1 Flammable Solids
Class 4.2 Spontaneously Combustible Substances
Class 4.3 Dangerous when Wet Substances
Class 5.2 Organic Peroxides
Class 6 Toxic Substances (where the toxic substances are fire risk substances)
Class 7 Radioactive Substances
Class 8 Corrosive Substances (Certain Exemptions Apply)
Class 9 Miscellaneous Dangerous Goods (where the miscellaneous dangerous goods are fire risk substances or Combustible Liquids).

15. REGULATORY INFORMATION

Poisons Schedule (Aust) 6

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS)

WHS Act and Regulation 2011

16. OTHER INFORMATION

Contact Any advice, recommendation, information, assistance, or service provided by Hy-Clor Australia in relation to the goods supplied by it or their use or application is given in good faith and believed to be appropriate and reliable. However, this information is given without warranty or representation. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products.

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