



## Safety Data Sheet

24<sup>TH</sup> AUGUST 2016

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

|   |   |
|---|---|
| <b>Product Name:</b>  | <b>HY-CLOR MULTI SWIMMING POOL TABLETS</b>  |
| <b>Shipping Name:</b>   | Trichloroisocyanuric Acid Dry Oxidiser  |
| <b>Product Code:</b>  | HYCTM04-1KG, HYCTM08-2KG  |
| <b>UN Number:</b>   | UN2468  |
| <b>Other Names:</b>   | TICA, Stabilised Pool Chlorine Tablets, Trichlor  |
| <b>Recommended Use of the Chemical and Restrictions on Use:</b> | Swimming Pool disinfectant and water treatment  |
| <b>Chemical Formula:</b>  | N/A   |
| <b>Supplier:</b>  | HY-CLOR AUSTRALIA PTY LTD   |
| <b>Street Address:</b>  | 178 Power Street<br>Glendenning NSW 2761  |
| <b>Telephone Number:</b>  | 02 8805 2400  |
| <b>After Hours Contact:</b>                                     | 0404 859 515  |
| <b>Facsimile:</b>   | 02 8805 2401  |
| <b>Email Contact:</b>   | <a href="mailto:help@hyclor.com.au">help@hyclor.com.au</a>                                |
| <b>Emergency Telephone:</b>                                     | <b>13 11 26 (Australia Poisons Information Centre)</b><br><b>New Zealand 0800 764 766</b> |

### 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: S6**

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

Eye Irritation – Category 2A

Specific Target Organ Toxicity – Category 3

**SIGNAL WORD: DANGER**





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### Hazard Statement(s):

This material is hazardous

**H270:** Oxidiser, May intensify Fire

**H302:** Harmful if swallowed

**H314:** Causes Skin Burn and Eye Damage

**H319:** Causes Serious Eye Irritation

**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 not breathe Dust, smoke etc.

**P280:** Wear Protective Gloves/Protective Clothing/Eye Protection/Face Protection

### Response:

**P302+P352:** If on skin, wash with plenty of soap and water

**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.

### Storage:

**P403+P233:** Store in Well-ventilated place, keep container tightly closed

### Disposal

**P 501:** Dispose of in accordance with the local/regional/national/international regulations

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Ingredients                  | CAS        | Proportion |
|------------------------------|------------|------------|
| Trichloroisocyanuric acid    | 87-90-1    | >80%       |
| Copper Sulphate Pentahydrate | 7758-98-7  | 3-4%       |
| Aluminium Sulphate           | 10043-01-3 | 5-6%       |
| Boric Acid                   | 11113-50-1 | 0-4%       |

## 4. FIRST AID MEASURES

### 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.



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|--|---|
| <b>Ingestion</b>   | 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  |
| <b>Eye</b>   | If in eye(s) wash with large amounts of water for approximately 15 minutes holding eyelid(s) open. Seek medical attention immediately.  |
| <b>Skin</b>  | Remove contaminated clothing and wash skin thoroughly decontaminate clothing before re-use or discard. If swelling, redness, blistering or irritation occurs seek medical advice.   |
| <b>Inhalation</b>  | 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. |
| <b>First Aid Facilities</b>                                  | Eye wash and normal washroom facilities. First Aid Kit.   |
| <b>Advice to Doctor</b>                                      | Treat symptomatically   |
| <b>Medical Conditions that may Be Aggravated by Exposure</b> | Asthma and respiratory and cardiovascular disease.  |

### 5. FIRE FIGHTING MEASURES

|                                 |  |
|---------------------------------|--|
| <b>Hazchem Code</b>             | 1W   |
| <b>Extinguishers</b>            | 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.  |
| <b>Fire Fighting Procedures</b> | Wear self-contained breathing apparatus (SCBA) and protective clothing.  |
| <b>Hazardous Decomposition</b>  | Decomposes on heating emitting toxic fumes of chlorine as well as liberating oxygen.   |
| <b>Products</b>                 |  |
| <b>Other precautions</b>        | 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. |

**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** Keep out of the reach of children. 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** Keep out of the reach of children. 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** Calcium hypochlorite (dry or hydrated) and its mixtures are incompatible with, and must be stored away from, dichloroisocyanuric acid, ammonium nitrate, trichloroisocyanuric acid, or any chloroisocyanurate, strong acids, aluminium, iron, lead, magnesium, and zinc. Ensure pallets are clean and free of oil. Keep containers closed when not in use - check regularly for spills.

**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. Chlorine Peak Limitation is 3 mg/m<sup>3</sup> (1 PPM)

**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.



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### Personal Protection Equipment

#### Clothing

Suitable protective clothing should be worn e.g. cotton overalls and safety shoes. Glasses, gloves etc.

#### 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.

#### 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

|                          |                               |
|--------------------------|-------------------------------|
| Appearance               | Tablets White, Chlorine Smell |
| 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                       | 2.8 % (1% solution)           |

## 10. STABILITY AND REACTIVITY

#### Chemical Stability

Rapidly decomposes on exposure to air. May decompose violently if exposed to heat or direct sunlight. Stable if stored and handled under recommended conditions.

#### Conditions to Avoid

Avoid contact with combustible substances. Avoid contact with other chemicals. Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame. Avoid exposure to moisture.

#### Incompatible Material

Incompatible with combustible materials, acids, water, alkalis, calcium hypochlorite (dry or hydrated), nitrogen compounds, sodium hypochlorite, reducing agents, ammonium compounds and oils and greases. Incompatible with heat and hot surfaces. Calcium hypochlorite (dry or hydrated) and its mixtures are incompatible with dichloroisocyanuric acid, ammonium nitrate, trichloroisocyanuric acid, or any chloroisocyanurate, acids, aluminium, iron, lead, magnesium, and zinc.

#### Hazardous Decomposition

##### Products

Chlorine, Oxides of Carbon, Oxides of nitrogen

**11. TOXICOLOGICAL INFORMATION**

No Hazardous health effects if the product is handled in accordance with this Safety Data Sheet and the product label. Symbols or effects that may arise if the product is mishandled and overexposure occurs are:

**Toxicology Information:** Oral LD 50 (rat) = 406mg/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, diarrhoea, 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 powder 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****Ecotoxicity**

Highly toxic to aquatic life. Avoid contaminating waterways.

**13. DISPOSAL CONSIDERATIONS**

**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.

**14. TRANSPORT INFORMATION**

|                                |  |
|--------------------------------|--|
| <b>UN Number</b>               | 2468                                   |
| <b>Land Transport</b>          | ADG                                    |
| <b>UN Proper Shipping Name</b> | Trichloroisocyanuric Acid Dry Oxidiser |
| <b>Dangerous Goods Class</b>   | 5.1 Oxidising Substance                |
| <b>Packing Group</b>           | II                                     |
| <b>Hazchem Code</b>            | 1W                                     |

**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**

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: S6**

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

**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.

Mr Mark Sheridan  
Technical Regulations Manager  
Telephone: Australia + 61 2 8805 2400  
New Zealand + 64 9 973 2477