



## Material Safety Data Sheet

Issue Date April 23<sup>rd</sup>, 2015

Product Name: HY-CLOR LI'L POOLS TABLETS

Classified as hazardous according to criteria of Worksafe Australia

### IDENTIFICATION

<b>Product Name</b>	Hy-Clor Li'l Pool Tablets
<b>Shipping Name</b>	TRICHLOROISOCYANURIC ACID, DRY-OXIDISER
<b>Other Names</b>	TRICHLORS-TRIAZINETROINE
<b>Product Code and Size</b>	600g
<b>Recommended Uses</b>	Swimming Pool Disinfectant and Sanitiser
<b>Company Name</b>	HY-CLOR AUSTRALIA PTY LTD
<b>Address</b>	178 Power Street, Glendenning, NSW 2761
<b>Tel/Fax</b>	Ph: (02) 8805 2400 Fax: (02) 8805 2401
<b>Emergency Contact Number</b>	Business Hours Only (02) 8805 2400. After Hours 0404 859 515
<b>24 Hour Emergency Contact</b>	If poisoning occurs, contact a doctor or Poisons Information Centre <b>Australia 131 126 or New Zealand 0800 764 766</b>

### HAZARDS IDENTIFICATION

<b>UN Number</b>	2468
<b>Dangerous Goods Class</b>	5.1
<b>Packing Group</b>	II
<b>Hazchem code</b>	2PE
<b>Poisons Schedule</b>	S5



#### Risk Phrases

**R8**

Contact with combustible material may cause fire

<b>R22</b>	Harmful if swallowed
<b>R31</b>	Contact with acids liberates toxic gas
<b>R36/37</b>	Irritating to eyes and respiratory system
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases

<b>S(2)</b>	Keep out of reach of children
<b>S8</b>	Keep container dry
<b>S26</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
<b>S41</b>	In case of fire and / or explosion, do not breathe fumes.
<b>S61/63</b>	Avoid release to the environment.

### COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Proportion
Trichloroisocyanuric Acid	87-90-1	96.00-100.00%
Boric Acid	11113-50-1	0.00%-4.00%

### FIRST AID MEASURES

<b>Ingestion</b>	Rinse mouth thoroughly with water immediately. Give water or milk to drink. DO NOT induce vomiting. Do not give alcohol. Seek immediate medical assistance. Poison Information Centre phone 13 11 26 Australia wide.
<b>Eye</b>	Immediately irrigate with copious quantities of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
<b>Skin</b>	Remove contaminated clothes. Wash affected areas with copious quantities of water. If swelling, redness, blistering or irritation occurs seek medical advice.
<b>Inhalation</b>	Remove victim from exposure – avoid becoming a casualty. If breathing labored and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible – either on site or at the nearest hospital.
<b>Advice to Doctor</b>	Treat symptomatically – Poison Centre 13 11 26 Australia wide.
<b>Medical Conditions that may</b>	Pre-existing respiratory conditions may be aggravated by inhalation of

**Be Aggravated by Exposure** this product. Delayed effects from exposure to chlorine gas can include shortness of breath, pulmonary oedema and chemical pneumonitis.

## FIRE FIGHTING MEASURES

<b>Hazchem Code</b>	2PE
<b>Extinguishers</b>	No special requirement. Use an extinguisher suitable for use with other materials in the fire.
<b>Fire Fighting Procedures</b>	Fire fighters must wear full protection and self-contained breathing apparatus.
<b>Hazardous Decomposition Products</b>	Carbon Dioxide, Carbon monoxide, Hydrogen chloride gas and other chlorine containing vapours.

## ACCIDENTAL RELEASE MEASURES

<b>Spills</b>	Clean up spills promptly. Keep spilt product out of drains, sewers and waterways. Spills should be contained, and the possibility of collection for re-use evaluated. If this is not possible, ventilate the area of spill, wear personal protective equipment as specified below, and sweep the tablets or collect them and place into a leak proof container for disposal. Avoid sawdust as an absorbent. Sodium Sulphate (3.5kg for every kg of product spilled) or Soda Ash (2.0kg for every kg product spilled) can be used to neutralize spills, if necessary. Wash down the area of spill with plenty of water to remove any remaining residues.
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## HANDLING AND STORAGE

<b>Handling</b>	Keep out of the reach of children. Do not eat, drink or smoke while handling the product. Do not swallow. Avoid contact with the eyes. Avoid skin contact. Avoid inhaling dusts or chlorine gas. Avoid contact of the material with water or moisture, except in its normal use.
<b>Storage</b>	Store in a cool, dry place. Store away from sources of heat or ignition. Store away from combustible materials. Store away from strong bases. Store away from strong acids. Keep containers securely sealed and protected against physical damage. Store away from foodstuffs.
<b>Incompatibilities</b>	Acids, alkalis, oxidising agents, organic materials and ammonia.

## EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Standards</b>	No ingredients in this product have exposure standards.
<b>Engineering Controls</b>	Maintain concentration below recommended exposure limit. Avoid generating and inhaling dust. Use with local exhaust ventilation or: approved Combination particulate/gas respirator. (Inorganic vapour).
<b>Personal Protective Equipment</b>	
<b>Clothing</b>	Overalls and boots should be worn as a general requirement.
<b>Skin Protection</b>	Where skin exposure is likely, skin protection is required, including gloves and apron. Chemically resistant gloves made of rubber, nitrile, PVC or neoprene should be satisfactory. Any such gloves should comply with Australian Standards AS 2161.
<b>Eye Protection</b>	Eye protection should be used where splashing of solutions or large amounts of dusts may be generated. Face-shield, chemical goggles or safety glasses with side shield are suitable. Such eye protection should comply with Australian Standards AS 1336/1337.
<b>Respiratory Protection</b>	Respiratory protection is required where the production of dusts or chlorine gas is sufficient. In such cases, a suitable respirator, such as an approved particulate mask should be used. The selection, use and maintenance of such respiratory protection should comply with Australian Standards AS1517/1716.
<b>Personal Hygiene</b>	Always wash hands after using this product. Always wash hands before eating, drinking, smoking or using the toilet. Remove and wash contaminated clothing before reuse.

## PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White tablet form
<b>Odour Threshold</b>	Sharp, chlorine-like bleach odour
<b>Melting Point</b>	Decomposes at 225 °C
<b>Specific Gravity</b>	1 at 20 ° C
<b>Soluble in Water</b>	Soluble, 1.2% @ 25 °C
<b>pH</b>	2.7-3.5 (1% solution @ 25 Deg C)
<b>Vapour Pressure</b>	Not applicable
<b>Vapour Density</b>	Not applicable
<b>Flash Point</b>	Non flammable
<b>Lower Flammability Limit</b>	Non flammable
<b>Upper Flammability Limit</b>	Non flammable

## STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Trichloroisocyanuric acid form isocyanuric acid when dissolved in water with the release of chlorine gas.
<b>Conditions to Avoid</b>	Heat, moisture and incompatible chemicals.
<b>Incompatible Material</b>	Acids, alkalis, oxidizing agents, organic materials and ammonia.
<b>Hazardous Decomposition Products</b>	Explosive gases may be released with ammonia and alkaline materials. Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides and Hydrogen Chloride gas.
<b>Hazardous Reactions</b>	Powerful oxidizing agent - will react with all organic materials. Readily ignites combustible materials. Reacts with water or acids producing toxic chlorine gas. Heating can cause expansion or decomposition leading to violent rupture of containers.

## TOXICOLOGY INFORMATION

<b>Toxicology</b>	Oral LD50 (rat):490mg/kg Dermal LD50 (rabbit):>2g/kg
<b>Acute Effects</b>	Inhalation LC50 (rats, one hour exposure)>50mg/l
<b>Ingestion</b>	Irritation and/or burns can occur to the gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhoea, abdominal pain, bleeding and/or tissue ulceration.
<b>Eye</b>	A severe eye irritant. Contamination of eyes can result in permanent injury.
<b>Skin</b>	Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause destruction of the dermis with impairment of the skin at site of contact to regenerate.
<b>Inhalation</b>	The vapour (chlorine) is an irritant to the mucous membranes and respiratory tract. Inhalation of dust will result in respiratory irritation. Inhalation of vapour (chlorine) can result in headaches, dizziness and possible nausea. May cause pulmonary oedema, pneumonitis and emphysema. Inhalation of high concentrations can result in permanent lung damage.

## ECOLOGICAL INFORMATION

This product is considered an environmental hazard. Avoid contaminating waterways.

## DISPOSAL CONSIDERATIONS

This product is not a hazardous waste and it can, along with its containers, be disposed to landfill in accordance with local regulations.

## TRANSPORT INFORMATION

<b>UN Number</b>	2468
<b>Dangerous Goods Class</b>	5.1
<b>Packing Group</b>	II
<b>Hazchem code</b>	2PE
<b>Poisons Schedule</b>	S5

Not to be loaded with Class 1, 2.1, 2.3, 3, 4.1, 4.2, 4.3, 5.2, 6\*, 7, 8, 9\* (\*where these classes are capable of being ignited and burning), and substances other than dangerous goods capable of being ignited and burning.

## CONTACT POINT

### 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 provided with a disclaimer for any liability or responsibility on the part of Hy-Clor Australia Pty Ltd. The customer accepts all risk and responsibility for use of the goods alone, or in combination with other products. All warranties, guarantees and conditions, other than those expressly stated, and whether implied by statute, common law, custom of the trade otherwise, are to the extent that the law permits expressly excluded.

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