

Material Safety Data Sheet

Issue Date 21 July, 2012

Product Name: HY-CLOR HY-TECH LONG LASTING TABLETS

Classified as hazardous according to criteria of Worksafe Australia

COMPANY DETAILS

Company Name HY-CLOR AUSTRALIA PTY LTD

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IDENTIFICATION

Product Code 1150

Product Name TRICHLOROISOCYANURIC ACID

Shipping Name TRICHLOROISOCYANURIC ACID, DRY-OXIDISER

Other Names TRICHLORS-TRIAZINETROINE Sold As Hy-Clor Hy-Tech Tablets

UN Number 2468
DG Class 5.1
Packing Group II
Hazchem code 2PE
Poisons Schedule S5

Product Use Swimming Pool Disinfectant and Sanitiser

PHYSICAL DATA

Appearance White tablet form

Melting Point Decomposes at 225 ° C

Specific Gravity 1 at 20 ° C

Soluble in Water Soluble, 1.2% @ 25 ° C

OTHER PROPERTIES

Odour Threshold Sharp, chlorine-like bleach odour

pH Value (1% solution) 2.7-2.9

Form Solid Molecular Weight 232.5

INGREDIENTS

NameCASProportionTrichloroisocyanuric Acid87-90-196.00-100.00%Boric Acid11113-50-10.00%-4.00%

SAFE HANDLING INFORMATION

Storage Precautions 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. 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.

Other storage information Mix only with water. Use only clean, dry utensils. Do not mix with

remnants of other products. Such use may cause a violent reaction to

fire or explosion.

SPILLS AND DISPOSAL

Spills and Leaks Clear area of all unprotected personnel. For large spills

notify Emergency Services. In the event of a small spill: Scrape up. Collect and seal in properly labeled drums for disposal. Neutralize remaining product with a weak

reducing agent such as Sodium Thiosulphite, or with Bisulphite and dilute Sulphuric Acid. Neutralize with soda ash to pH 8-10 and flush to sewer with copious quantities of water. Avoid breathing dust or

vapours and contact with skin and eyes. Wear full protective clothing (see Personal Protection/Ventilation Section). Self contained breathing apparatus may be needed for prolonged periods of exposure. Refer to appropriate State Waste Disposal Authority, observe local regulations.

FIRE/EXPLOSION HAZARD

Fire/Explosion Hazards

Evacuate immediate area. A powerful oxidizing agent. It can ignite combustible substances. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition. Hazardous decomposition products: Carbon Monoxide, Carbon Dioxide, Nitrogen Oxides and Hydrogen Chloride gas. Extinguish fire with the following: Use water spray. Use CO2 dry chemical or foam. Heating can cause expansion or decomposition leading to violent rupture of containers.

HEALTH HAZARD INFORMATION

Heath Effects-

Acute – Ingestion 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.

Acute – Eye A severe eye irritant. Contamination of eyes can result in permanent

injury.

Acute – Skin 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.

Acute – Inhalation 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.

FIRST AID

Ingestion 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.

Eye Immediately irrigate with copious quantities of water for at least 15

minutes. Eyelids to be held open. Seek immediate medical assistance.

Skin Remove contaminated clothes. Wash affected areas with copious

quantities of water. If swelling, redness, blistering or irritation occurs

seek medical advice.

Inhalation 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.

Advice to Doctor Treat symptomatically – Poison Centre 13 11 26 Australia wide.

PRECAUTIONS FOR USE

Exposure Limits Name mg/m3 TWA ppmTWA TWA Foonote

Trichloroisocyanuric Acid

Other Exposure None reported by Worksafe Australia. However,

Information Decomposition product, Chlorine TLV:3 mg/m3, 1ppm

(ceiling values) Ceiling Value – Is the concentration that should not be

exceeded even instantaneously.

Engineering Controls Maintain concentration below recommended exposure limit.

Avoid generating and inhaling dust. Use with local exhaust ventilation

or: approved Combination particulate/gas respirator. (Inorganic

vapour).

PERSONAL PROTECTION

Protective Equipment The following personnel protective equipment should be worn.

Overalls or similar protective apparel. Safety glasses, goggles or faceshield as appropriate. PVC gloves. Wash contaminated clothing and protective equipment before storing/re-using. Avoid skin and eye

contact. Always work in a well ventilated area.

Work/Hygienic Practices eye wash station and safety shower should be provided in the

immediate work area.

FLAMMABILITY

Fire Hazards Non flammable. Keep away from heat, sparks or naked flames.

Other Precautions Keep away from combustible materials, solvents, ammonia, amines,

urea, organic matter, inorganic reducing agents, strong bases and Calcium Hypochlorite. Protect from heat, ignition sources and moisture.

Contact with water may liberate Nitrogen Trichloride gas.

Hazardous Reaction Stable if dry. Reacts non-violently with water.

Materials to Avoid Organic materials (including all flammable and combustible materials) –

increased risk of fire and explosion. Reducing agents (readily oxidizable materials may react violently or explosively. Nitrogen containing compounds (for example, ammonia, ammonium, ammonium salts, urea) – may form hazardous Nitrogen Trichloride. Acids (especially Hydrochloric Acid) reaction generates chlorine gas and may be violent.

Bases for example, soda ash solutions) – Reaction may produce hazardous Nitrogen Trichloride. Water – reacts non-violently with water to form a bleach solution (Hypochlorous Acid plus cyanurate). In strong solutions (more than 0.5 % available chlorine) some Nitrogen Trichloride may be formed. Hydrated salts – may decompose producing heat and pressure in sealed containers. Hazardous decomposition

products: Nitrogen Trichloride, Chlorine corrosivity.

Hazchem Code 2PE

OTHER INFORMATION

Toxicology Oral LD50 (rat):490mg/kg

Dermal LD50 (rabbit):>2g/kg

Inhalation LC50 (rats, one hour exposure)>50mg/l

Information on Ecological

Marine pollutant

Effects

Environmental Protection Highly toxic to aquatic life. Avoid contaminating waterways.

Risk Statement R8 keep container dry. S26 In case on contact with eyes, rinse immediately with

water and contact a doctor or Poisons Information Centre. S41 In case

of fire and/or explosion do not breathe fumes.

Hazard Category Harmful, Irritant

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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