

Aqua~Health Spa & Pool Chlorine

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Aqua~Health Spa & Pool Chlorine
Other Names: Sodium Dichloroisocyanurate, Dihydrate
Manufacturers' Code
Pack Size: 342005 500 g
342100 1 kg
Recommended Use: Control of algae and bacteria in swimming pools
Supplier's Details: Waterco Limited
36 South Street
Rydalmere, NSW 2116
Ph: (02) 9898 8600
Emergency Phone Number: Business hours only (02) 9898 8682
General Information
24 Hour Emergency Number:
Australia: Poisons Information Centre Australia Wide
Ph 13 1126
New Zealand: Poisons INFORMATION CENTRE
0800 POISON (0800 764 766)

SECTION 2 - HAZARD IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Hazardous Classification: Classified as a hazardous substance according to the criteria of the National Occupational Health and Safety Commission.

UN Number: None allocated
UN Proper Shipping Name: None allocated
Dangerous Goods Class: None allocated
Packing Group: None allocated
Hazchem Code: None allocated

Risk Phrases:

R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R36/37 Irritating to eyes and respiratory system.

Safety Phrases:

S1/2 Keep locked up and out of reach of children.
S22 Do not breathe dust.
S23 Do not breathe gas/fumes/vapour/spray.

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S61	Avoid release to the environment. Refer to special instructions/data sheet.
S7/9	Keep container tightly closed in a well ventilated place.
S20/21	When using, do not eat, drink or smoke.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity†	Synonyms	CAS Number	Concentration
Sodium Dichloroisocyanurate dihydrate		51580-86-0	100%

† Where they are present in this product and other ingredients of this material are not hazardous, as defined by either inclusion in the *List of Designated Hazardous Substance* or classified in accordance with the *Approved Criteria for Defining a Hazardous Substance*, and published by the National Occupational Health and Safety Commission/AGPS, 1999

SECTION 4 - FIRST AID MEASURES

First Aid: Take a copy of this MSDS to medical advisers if signs or symptoms of overexposure occur and medical attention is required.

Swallowed: DO NOT induce vomiting. Immediately wash mouth out with water and then give water to drink. If symptoms develop or persist, seek immediate medical attention.

Skin: Wash gently and thoroughly with water and non-abrasive soap. Contaminated clothing and footwear should be removed as soon as practical and thoroughly cleaned before reuse. If, irritation develops or persists, seek medical attention. NOTE: Contaminated clothing may be a fire hazard.

Eye: Wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into non affected eye. If irritation develops or persists, seek immediate medical attention.

Inhaled: Remove source of contamination or victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If breathing has stopped, have a qualified person begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately (avoid mouth-to-mouth contact and do not breath in the patient's expired air). If irritation develops and persists, seek IMMEDIATE medical attention.

First Aid Facilities: An eye wash fountain, safety shower and a general washing facility should be available immediately adjacent to the work area.

Advice to Doctor: Treat symptomatically. For further information, contact the Poison Information Centre.

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SECTION 5 - FIRE FIGHTING MEASURES

Hazchem Code: None allocated.

Extinguishers: Water. Use water spray to cool containers exposed to fire and massive quantities of water to dilute material involved in a fire.

Fire Fighting Precautions: Wear Self-Contained Breathing Apparatus (S.C.B.A.) and full protective clothing to minimise exposure.

Other Precautions: Not flammable. However, it may increase the burning rate of combustible material with which it comes in contact with. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion and can undergo a slow, self-sustaining decomposition, producing heat and toxic gases. Fire heated containers may rupture/explode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Increase ventilation. Use full protective clothing and equipment to minimise exposure. Sweep/mop/vacuum up spill and avoid generating dust. Collect the material with non-sparking tools and place into a suitable container for recycling or disposal. Wash surfaces well with water. If a large quantity of this material enters the environment, contact the relevant regulatory authorities.

SECTION 7 - HANDLING AND STORAGE

Handling: Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin/respiratory disorders. Use in a well ventilated area. Do not use near welding operations, flames or hot surfaces. Wear appropriate protective equipment. It is essential that all who come into contact with this material maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet. Build-up of dust in the working atmosphere must be prevented. Ensure ventilation is adequate. DO NOT enter confined spaces where airborne dusts exceed exposure limits. Keep containers closed when not in use.

Storage: Store in a cool, dry, well-ventilated area, out of direct sunlight. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Avoid sparks, flames and other ignition sources. Store away from incompatible materials such as flammable/combustible materials, reducing materials, corrosive materials (strong acids or bases). Use corrosion-resistant structural materials and lighting and ventilation systems in the storage area. Wood and other organic/combustible materials should not be used on floors, structural materials and ventilation systems in the storage area.

Incompatibilities:

- ORGANIC MATERIALS (including all flammable and combustible materials) – increase risk of fire and explosion.
- REDUCING AGENTS (readily oxidisable materials) – May react violently.
- NITROGEN CONTAINING COMPOUNDS (eg ammonia, ammonium salts, urea) – may form hazardous nitrogen trichloride.
- ACIDS (especially hydrochloric acid) – reaction generates chlorine gas.
- BASES (for example, soda ash solution) – may form nitrogen trichloride

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SECTION 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 Commission/AGPS, 1995.

Engineering Controls: Provide sufficient ventilation to keep airborne levels below the exposure limit. Where dusts are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

Personal Protective Equipment:

Clothing: Suitable impervious protective clothing/overalls.

Skin Protection: Suitable impervious protective gloves and safety boots as required.

Eye Protection: Chemical safety glasses with face shield. Refer to Australian/New Zealand Standards AS/NZS 1337, Eye Protectors for Industrial Applications.

Respiratory Protection: Avoid breathing of dusts or vapours. Where ventilation is inadequate and dust or vapours are generated the use of a respirator with filter complying with Australian /New Zealand Standards AS/NZS 1715 and AS/NZS 1716 is recommended. Filter capacity and respirator type depends on exposure levels.

Personal Hygiene: Always wash hands after using this product. Always wash hands before eating or drinking.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Odour:	White crystalline solid with a slight chlorine odour. Odour is due to chlorine released when NaDCC breaks down.
pH:	5.8 – 7.0 (1% solution) (8)
Vapour Pressure:	Not available
Vapour Density:	Not available
Boiling Point/Range:	Not applicable
Freezing/Melting Point:	Decomposes at 240-250°C (464-482°F) (1)
Solubility in Water:	Soluble (greater than 22.7 g/100ml @ 25°)
Specific Gravity/Density:	Not available
Flash Point:	Does not burn
Lower Flammability Limit:	Not available
Upper Flammability Limit:	Not available
Ignition Temperature:	Not applicable

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SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and handling, if dry. React non-violently with water.
Incompatible Material:	ORGANIC MATERIALS (including all flammable and combustible materials) – increase risk of fire and explosion. REDUCING AGENTS (readily oxidisable materials) – May react violently. NITROGEN CONTAINING COMPOUNDS (e.g. Ammonia, ammonium salts, urea) – may form hazardous nitrogen trichloride. ACIDS (especially hydrochloric acid) – reaction generates chlorine gas. BASES (for example, soda ash solution) – may form nitrogen trichloride.
Hazardous Decomposition Products:	Nitrogen trichloride, chlorine, nitrous oxide, cyanogens chloride, carbon monoxide, hydrated salts, hypochlorous acid plus cyanurate (bleach solution)

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicology Information: Oral LD₅₀ (rat) = 1420 mg/kg

Acute Effects:

Swallowed: Harmful if swallowed. May cause irritation of the gastrointestinal system. Symptoms may include pain, nausea, vomiting and diarrhoea.

Skin: May cause irritation in contact with the skin, which can result in redness, itchiness and possible dermatitis.

Eye: Will cause eye irritation resulting in redness, swelling, itching and stinging.

Inhaled: Will cause irritation to the mucous membrane and upper airways, especially if the material is heated or dusts are generated. Inhalation of high concentration may lead to sneezing, coughing, wheezing, difficulty in breathing, headache, dizziness, nausea, vomiting, pulmonary oedema which may be fatal.

Chronic Effects: Prolonged or repeated exposure to this material may result in skin irritation leading to dermatitis.

SECTION 12 - ECOLOGICAL INFORMATION

Prevent the material from entering the environment.

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SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose of waste according to federal, state, local and E.P.A. regulations. Assure conformity with all applicable regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number: None allocated
UN Proper Shipping Name: None allocated
Dangerous Goods Class: None allocated
Packing Group: None allocated
Hazchem Code: None allocated

SECTION 15 - REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are to be found in the public AICS Database.

The following ingredients: Sodium Dichlorocyanurate Dihydrate is mentioned in the SUSDP.

Product: Sodium Dichlorocyanurate Dihydrate (CAS: 51580-86-0) is found in the following regulatory lists:

Hazardous Substances Information System

New Zealand Inventory of Chemicals (NZIoC) HSNO Approval Code: HSR003823

SECTION 16 - OTHER INFORMATION

Worker Training: As a minimum all workers using this product should be shown a copy of this MSDS before first use.

Date of Preparation of this MSDS: September, 2006

Revised: December 2015

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS Australian Inventory of Chemical Substances

CAS number Chemical Abstracts Service Registry Number

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Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
IARC	International Agency for Research on Cancer
ASCC	Office of the Australian Safety and Compensation Council
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

This material safety data sheet (MSDS):

1. Is produced by Waterco Ltd for use in Australia, and is based on information supplied to Waterco Ltd by our suppliers.
2. Summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace,
3. Has been formatted to MSDS format accepted by the National Occupational Health and Safety Commission for use in Australia.
4. Has been produced following the principles and recommendation outline in the *National Code of Practice for the Preparation of Material Safety Data Sheet* published by the National Occupational Health and Safety Commission/AGPS, Canberra, 2003.

Each user must review this MSDS in the context of how the product will be handled and used in the workplace. If clarification or further information is needed to ensure that an appropriated risk assessment can be made, the user should contact Waterco Ltd.

If this MSDS is a copy, or more than five years old, contact Waterco Ltd for a new one.