

Material Safety Data Sheet

AQUACHLOR ONCE-A-WEEK POOL TABLETS

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Issued by: WATERCO LTD

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

AQUACHLOR ONCE-A-WEEK POOL TABLETS

Product Code

A67093 1Kg, A67094 2Kg, A67413 10Kg

Company Name

WATERCO LTD (ABN 003 070 733)

Address

36 South Street Rydalmere
NSW 2116 Australia

Emergency Tel.

Australia 1800 638 556 land line for transport by air and sea +61 438 465 960/ New Zealand 0800 154 666 land line for transport by air and sea +64 962 390 85

Telephone/Fax Number

Tel: (02)9898 1899

Recommended Use

Control of algae and bacteria in swimming pools.
Should not be used in spas.

Other Names

Name	Product Code
TICA, Symclosene	

2. HAZARD IDENTIFICATION

Hazard Classification

HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Risk Phrase(s)

R8 Contact with combustible material may cause fire.
R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R36/37 Irritating to eyes and respiratory system.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrase(s)

S(2) Keep out of reach of children.
S8 Keep container dry.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S41 In case of fire and/or explosion, do not breathe fumes.
S60 This material and its container must be disposed of as hazardous waste.

S61/63 Avoid release to the environment. Refer to special instructions/Material Safety Data Sheets.

Route(s) of Entry

The primary hazard of this product is inhalation of chlorine gas (released from the tablets).

Medical Conditions Generally Aggravated by Exposure

Pre-existing respiratory conditions may be aggravated by inhalation of this product. Delayed effects from exposure to chlorine gas can include shortness of breath, pulmonary oedema and chemical pneumonitis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Trichloroisocyanuric acid (90% available chlorine)	87-90-1	98-99 %
Sodium tetraborate	1303-96-4	1-2 %

Other Information

Chemical Entity† Synonyms
Trichloroisocyanuric acid TICA, C³ CL³ N³ O³
(90% available chlorine)
Sodium Tetraborate Borax

† 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.

4. FIRST-AID MEASURES

First Aid Measures

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

Inhalation

Remove affected individual from exposure to fresh air. Keep individual warm and comfortable. If breathing is laboured and the individual has blue lips (cyanotic) ensure airways are clear and arrange oxygen from a qualified person. If breathing has stopped, supply artificial respiration at once. If cardiac arrest occurs, apply cardiopulmonary resuscitation. Seek medical advice if respiratory symptoms occur.

Ingestion

Immediately rinse mouth out with water. Give two glasses of water and do not induce vomiting. Never give anything by mouth to an unconscious person. Seek advice immediately from a medical practitioner or Poisons Information Centre.

Skin

Thoroughly wash exposed skin with plenty of soap and water. Seek medical advice if skin irritation occurs.

Eye

If contact occurs, or if eye irritation arises, hold the eyelid(s) open and flush the eye(s) with fresh lukewarm water (or, if available, other eye cleansing solutions) for at least 15 minutes. Take care not to rinse contaminated water into the non-affected eye. Seek medical advice immediately for all eye contact.

First Aid Facilities

If practicable, an eyewash station should be available.

Advice to Doctor

No specific treatment recommended. Treat symptomatically for exposure to chlorine gas. Delayed effects include headaches, shortness of breath, pulmonary oedema and pneumonia.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

No special requirement. Use an extinguisher commensurate with the fire risks of other materials in the fire.

Hazards from Combustion Products

Carbon dioxide, Carbon monoxide, Hydrogen chloride gas and other chlorine containing vapours.

Specific Methods

Fire fighters must wear full protection and self-contained breathing apparatus.

Hazchem Code

1W

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

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 (3.5 kg for every kg of product spilled) or Soda Ash (2.0 kg for every kg product spilled) can be used to neutralise spills, if necessary. Wash down the area of spill with plenty of water to remove any remaining residues.

7. HANDLING AND STORAGE

Precautions for Safe Handling

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. See below for specific advice on controls and precautions.

Conditions for Safe Storage

The product is a dangerous good (Class 5.1 Oxidising Agent) and should be stored in accordance with the Australian Dangerous Good Code and Dangerous Goods legislation. The product is a scheduled poison (S5) and should be stored and used in accordance with the Standard for the Uniform Scheduling of Drugs and Poisons, and Poisons legislation. Minimal conditions include storage in a cool, dry, ventilated store away from moisture, sunlight and incompatible substances. Containers should be kept upright, closed and airtight when not in use.

Other Information

Incompatibilities: Acids, alkalis, oxidising agents, organic materials and ammonia.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National 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

Exposures can be reduced by process modification, use of general ventilation (either natural or mechanical) or other methods are usually sufficient to control dusts arising from the use of this material. Keep containers closed when not in use.

Respiratory Protection

Respiratory protection is required where the production of dusts or chlorine gas is significant. 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 AS 1517/1716.

Eye Protection

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.

Personal Protective Equipment

All personal protective equipment should be selected, used, maintained and decontaminated in accordance with manufacturers' instructions and applicable standards.

Body Protection

Clothing: Overalls and boots should be worn as a general requirement.

Skin Protection: Where a 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.

Hygiene Measures

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

White 200g tablets with a slight smell of chlorine.

Freezing Point

225 - 235°C

Boiling Point

Decomposes

Solubility in Water

12 g/L at 25°C

Specific Gravity

Not applicable

pH Value

2.7 – 3.5 (1% solution at 25°C)

Vapour Pressure

Not applicable

Vapour Density (Air=1)

Not applicable

Flash Point

Non flammable

Auto-Ignition Temperature

Not applicable

Flammable Limits - Lower

Non flammable

Flammable Limits - Upper

Non flammable

10. STABILITY AND REACTIVITY

Chemical Stability

Stable. Trichloroisocyanuric acid form isocyanuric acid when dissolved in water with the release of chlorine gas.

Conditions to Avoid

Heat, moisture and incompatible chemicals.

Incompatible materials

Acids, alkalis, oxidising agents, organic materials and ammonia.

Hazardous Reactions

Powerful oxidising agent – will react with all organic materials. Readily ignites combustible materials. Reacts with water or acids producing toxic chlorine gas. Explosive gases may be released with ammonia and alkaline materials. See section of Conditions to Avoid and Incompatibles.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Trichloroisocyanuric acid is not considered a skin sensitizer (in the guinea pig).

Trichloroisocyanuric acid was not toxic in a long-term repeated dose study, 30 days, (in rats dosed with 2ppm in drinking water).

Isocyanuric acid was not toxic in a long-term repeated dose study, 2 years, (in rats dosed with 5% in the diet).

Metabolic studies show that Isocyanuric acid does not accumulate in the body. When tested for geno-toxicity, Isocyanuric acid was negative.

Inhalation

Airborne dusts may release chlorine gas, which is irritating to the upper airways and lungs producing discomfort, coughing and sneezing.

Ingestion

Swallowing this product, may be harmful to health.

Skin

The active ingredient of the tablet is irritating to skin, causing symptoms from itching to redness, with chemical burns and blisters to moderate exposure and the possibility of corrosion (scarring).

Eye

The active ingredient of the tablet is severely irritating to the eye on contact, with symptoms of discomfort, tears and blurred vision. Corrosion to the cornea and other eye surfaces is also possible.

Chronic Effects

None known. Limited information is available to suggest that long-term low level exposure to chlorine gas may be associated with respiratory problems.

Acute Toxicity - Oral

LD50 (rat) = 406 mg/kg

Acute Toxicity - Dermal

LD50 (rabbit) = 2000 mg/kg

Eye Irritation

(rabbit) = Severe irritant

Skin Irritation

(rabbit) = Moderate irritant

12. ECOLOGICAL INFORMATION

Ecological information

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

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Do not discharge this product to natural waterways, storm-water channels or sewers. This product is not a hazardous waste and it can, along with its containers, be disposed to landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

Transport Information

Special Precaution to User: The product is generically classified as a dangerous good (Class 5.1 Oxidising Agent). Transport in accordance with the Australian Dangerous Goods Code and Dangerous Goods legislation.

U.N. Number

2468

Proper Shipping Name

TRICHLOROISOCYANURIC ACID, DRY

DG Class

5.1

Packing Group

II

Hazchem Code

1W

EPG Number

5A1

IERG Number

31

15. REGULATORY INFORMATION

Regulatory information

The following ingredients: Trichloroisocyanuric acid is mentioned in the SUSDP.

Product: Trichloroisocyanuric acid (90% available chlorine) (CAS: 87-90-1) is found in the following regulatory lists:

AICS Listing

Hazardous Substances Information System

International Council of chemical Associations (ICCA) – High Production Volume List

New Zealand Inventory of Chemicals (NZIoC) HSNO Approval Code: HSR001359

Product: Sodium Tetraborate (CAS: 1303-96-4) is found in the following regulatory lists:

AICS

Listing Hazardous Substances Information System

High Volume Industrial Chemicals List (HVICL)

International Programme on Chemical Safety (IPCS) – EHC

New Zealand Inventory of Chemicals (NZIoC) HSNO Approval Code: HSR002914

Poisons Schedule

S6

Hazard Category

Harmful,Irritant,Oxidising,Dangerous for the environment

16. OTHER INFORMATION

Other Information

Manufacturers' Code & Pack Size:

A67093 1kg

A67094 2kg

A67413 10kg

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

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

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.

This MSDS has been transcribed into Infosafe NOHSC format from an original issued by the manufacturer on the date shown. Any disclaimer by the manufacturer may not be included in the transcription.

END OF SDS

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