

WATERCO

water, the liquid of life

SAFETY DATA SHEET

AQUA~HEALTH CHLORINE CONCENTRATE

Infosafe No.: MTBX3
Issued Date: 21/03/2016
Issued by: WATERCO LIMITED

1. IDENTIFICATION

GHS Product Identifier

AQUA~HEALTH CHLORINE CONCENTRATE

Product Code

34202 2 kg

Company Name

WATERCO LIMITED

Address

36 South Street Rydalmere
NSW 2116 Australia

Telephone/Fax Number

Tel: 61 2 9898 8600

Emergency phone number

Australia 1800 638 556 land line for transport by air and sea +61 438 465960/ New Zealand 0800 154 666 land line for transport by air and sea +64 962 390 85

Recommended use of the chemical and restrictions on use

Control of algae and bacteria in swimming pools.

Other Names

Name	Product Code
Sodium Dichloroisocyanurate	34204 4 kg
Dihydrate	34210 10 kg
Aqua~Health Chlorine Concentrate	34220 20 kg

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Acute Toxicity - Oral: Category 4

Eye Damage/Irritation: Category 2A

Hazardous to the Aquatic Environment - Acute Hazard: Category 1

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1

STOT Single Exposure: Category 3 (respiratory tract irritation)

Signal Word (s)

WARNING

Hazard Statement (s)

AUH031 Contact with acids liberates toxic gas.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s)

Exclamation mark, Environment

**Precautionary statement – Prevention**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

Precautionary statement – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients**

Name	CAS	Proportion
Sodium Dichloroisocyanurate dihydrate	51580-86-0	100 %

4. FIRST-AID MEASURES**Inhalation**

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre or a doctor at once. (131 126)

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media

Do not use water jet.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes and gases including nitrogen trichloride, chlorine, nitrous oxide, cyanogens chloride, carbon monoxide, hydrated salts, hypochlorous acid plus cyanurate (bleach solution).

Specific Hazards Arising From The Chemical

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.

Hazchem Code

2Z

Decomposition Temperature

240-250°C

Precautions in connection with Fire

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

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.

7. HANDLING AND STORAGE

Precautions for Safe 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.

Conditions for safe storage, including any incompatibilities

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.

Other Information

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for the mixture. However, over-exposure to some chemicals may result in enhancement of pre-existing adverse medical conditions and/or allergic reactions and should be kept to the least possible levels.

Biological Limit Values

No biological limits allocated.

Appropriate Engineering Controls

This substance is hazardous and should be used with a local exhaust ventilation system, drawing solid/dust away from workers' breathing zone. A flameproof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.

Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

Other Information

No exposure standards have been established for this material, however, the TWA exposure standards for dust not otherwise specified is 10 mg/m³. As with all chemicals, exposure should be kept to the lowest possible levels. TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. Source: Safe Work Australia

9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Solid	Appearance	White crystalline solid with a slight chlorine odour. Odour is due to chlorine released when NaDCC breaks down.
Colour	White	Odour	Slight chlorine odour. Odour is due to chlorine released when NaDCC breaks down.
Decomposition Temperature	240-250°C	Freezing Point	Not available
Boiling Point	Not applicable	Solubility in Water	Soluble (greater than 22.7 g/100ml @ 25°)
Specific Gravity	Not available	pH	5.8 – 7.0 (1% solution) (8)
Vapour Pressure	Not available	Vapour Density (Air=1)	Not available
Evaporation Rate	Not available	Odour Threshold	Not available
Viscosity	Not available	Volatile Component	Not available
Partition Coefficient: n-octanol/water	Not available	Flash Point	Does not burn
Auto-Ignition Temperature	Not applicable	Explosion Limit - Upper	Not available
Explosion Limit - Lower	Not available		

10. STABILITY AND REACTIVITY

Reactivity

Reacts with incompatible materials

Chemical Stability

Stable under normal conditions of storage and handling, if dry. Reacts non-violently with water.

Reactivity and Stability

Reacts with incompatible materials

Conditions to Avoid

Dust accumulation. Extremes of temperature and direct sunlight. Heat and other sources of ignition.

Incompatible materials

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 as 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)

Possibility of hazardous reactions

Reacts with incompatible materials

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

The available toxicity data for material given below.

Acute Toxicity - Oral

LD50 (rat) = 1420 mg/kg

Ingestion

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

Inhalation

May cause respiratory irritation. Inhalation of product dust/vapours can cause irritation of the nose, throat and respiratory system. Chronic exposure by inhalation may aggravate pre-existing upper respiratory and lung disorders such as bronchitis, emphysema and asthma. Onset and progression are related to dust concentrations and duration of exposure.

Skin

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

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Respiratory sensitisation

Not expected to be a respiratory sensitiser.

Skin Sensitisation

Not expected to be a skin sensitiser.

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.

Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Not available

Mobility

Not available

Bioaccumulative Potential

Not available

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport:

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:

packagings that do not incorporate a receptacle exceeding 500 kg(L); or

IBCs

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 3077

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOROISOCYANURATE) MARINE POLLUTANT

DG Class: 9

Packaging Group: III

EMS No.: F-A, S-F

Special provisions: 274, 335, 966, 967, 969

Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

UN No: 3077

Proper Shipping Name: : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (SODIUM DICHLOROISOCYANURATE)

Class: 9

Packing Group: III

Label: Miscellaneous

Packaging Instructions (passenger & cargo): 956

Packaging Instructions (cargo only): 956

Special provisions: A97, A158, A179, A197

U.N. Number

3077

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Sodium Dichloroisocyanurate dihydrate)

Transport hazard class(es)

9

Packing Group

III

Hazchem Code

2Z

Special Precautions for User

Not available

EPG Number

9C1

IERG Number

47

IMDG Marine pollutant

Yes

Transport in Bulk

Not available

15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

S6

Hazard Category

Harmful,Irritant

Australia (AICS)

All components of this product are listed on the Inventory or exempted.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS reviewed : March 2016 Supersedes: December 2010

References

- Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
- Standard for the Uniform Scheduling of Medicines and Poisons.
- Australian Code for the Transport of Dangerous Goods by Road & Rail.
- Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
- Workplace exposure standards for airborne contaminants, Safe work Australia.
- American Conference of Industrial Hygienists (ACGIH).
- Globally Harmonised System of classification and labelling of chemicals.

Contact Person/Point

Emergency contact:

Australia 1800 638 556 landline +61 438 465 960

New Zealand 0800 154 666 landline +64 962 390 85

User Codes

User Title Label	User Codes
Sign off	18688

END OF SDS

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