



water, the liquid of life

# Material Safety Data Sheet

## AQUA PURE CARTRIDGE CLEANER

Infosafe No.: LPY4B  
Issued Date: 20/05/2009  
Issued by: WATERCO LIMITED

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name**

AQUA PURE CARTRIDGE CLEANER

**Company Name**

WATERCO LIMITED

**Address**

36 South Street Rydalmere  
NSW 2116 Australia

**Emergency Tel.**

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

**Telephone/Fax Number**

Tel: 61 2 9898 8600

**Recommended Use**

Chlorinating agent.

**Other Names**

Name	Product Code
AQUA PURE STABILISED CHLORINE	383025
AQUA PURE FILTER CLEANER (SOLID)	

### 2. HAZARD IDENTIFICATION

**Hazard Classification**

HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).  
Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

**Risk Phrase(s)**

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)**

S2 Keep out of reach of children.  
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 Avoid release to the environment. Refer to special instructions/safety data sheet.  
S24/25 Avoid contact with skin and eyes.  
S37/39 Wear suitable gloves and eye/face protection.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### Ingredients

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

### 4. FIRST-AID MEASURES

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#### Inhalation

Remove the source of contamination or move the affected person to fresh air. Ensure airways are clear. 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 plenty of water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.

#### Eye

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for at least 15 minutes until all contaminants are washed off completely. Seek medical attention.

#### First Aid Facilities

Eye wash and normal washroom facilities.

#### Advice to Doctor

Treat symptomatically. Delayed effect from exposure to chlorine (reaction product) can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

#### Other Information

For advice in an emergency contact the Australian Poisons Information Centre on 13 1126 or a doctor, at once.

### 5. FIRE-FIGHTING MEASURES

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#### Suitable Extinguishing Media

Water spray (large amounts are necessary).

#### Hazards from Combustion Products

Under fire conditions thermal decomposition may result in the release of toxic and/or irritating fumes including chlorine, hydrogen chloride, oxides of nitrogen, phosgene and nitrogen trichloride.

#### Specific Hazards

Oxidising agent. Contact with organic matter or easily chlorinated or oxidised materials may result in fire. Heating under fire conditions may result in the violent rupture of product containers.

#### Decomposition Temperature

230-240°C

#### Precautions in connection with Fire

Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Water spray may be used to keep fire exposed containers cool.

#### Unsuitable Extinguishing Media

Dry chemical

## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency Procedures

Avoid breathing dust and increase ventilation. If product comes into contact with water, avoid breathing vapours. Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Sweep up material avoiding dust generation or use dustless methods such as vacuum. Place waste material into suitable dry labelled containers for disposal. If this material enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

## 7. HANDLING AND STORAGE

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### Precautions for Safe Handling

Wear appropriate protective equipment to prevent exposure. Prevent the creation of dusts and vapours. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.

### Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from heat and foodstuffs. Store away from flammable, combustible and oxidisable materials. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### National Exposure Standards

No exposure standards have been established for this material by the National Occupational Health & Safety Commission (NOHSC) Australia. The exposure limit for dust not otherwise specified as provided by NOHSC is listed below. The NOHSC exposure limit for chlorine is also provided below, which is liberated when the product is exposed to water.

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Dust (inspirable fraction) -	10		-	-
Chlorine	1	3 (Peak limitation)	-	-

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.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Ceiling: A concentration that should not be exceeded during any part of the working day.

### Biological Limit Values

No Biological limit available.

### Engineering Controls

Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or dusts are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required.

### Respiratory Protection

Where ventilation is inadequate and dusts or vapours are generated, the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 is required.

### Eye Protection

Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

### Hand Protection

Wear impervious gloves such as nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. 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. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

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### **Appearance**

White granules

### **Odour**

Chlorine odour

### **Decomposition Temperature**

230-240°C

### **Melting Point**

230-251°C

### **Boiling Point**

Not available

### **Solubility in Water**

Soluble (25 g/100 mL at 25°C)

### **Specific Gravity**

Not available

### **pH Value**

5.5- 7 (in a 1% aqueous solution)

### **Vapour Pressure**

Not available

### **Vapour Density (Air=1)**

Not available

### **Density**

Bulk: 0.80-0.95 kg/L

### **Flash Point**

Not applicable

### **Flammability**

Not flammable

### **Auto-Ignition Temperature**

Not applicable

### **Flammable Limits - Lower**

Not applicable

### **Flammable Limits - Upper**

Not applicable

### **Other Information**

Active chlorine content: 56% min.

Moisture: 7 % max.

## **10. STABILITY AND REACTIVITY**

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### **Chemical Stability**

Stable under normal conditions of storage and handling. Product is hygroscopic.

### **Conditions to Avoid**

Heat, sources of ignition and moisture.

### **Incompatible materials**

Acids, organic matter, easily chlorinated or oxidised materials, compounds containing nitrogen, bases, calcium hypochlorite and metals.

### **Hazardous Decomposition Products**

Thermal decomposition may result in the release of toxic and/or irritating fumes including chlorine, hydrogen chloride, oxides of nitrogen, phosgene and nitrogen trichloride.

### **Hazardous Reactions**

Product reacts with water forming chlorine and other toxic gases. Contact with acids liberates toxic gas. Contact with compounds containing nitrogen may form nitrogen trichloride, a highly explosive compound. Mixture with nonionic surface active agents may result in exothermic reactions causing fire or explosion. Contact with organic matter, or easily chlorinated or oxidised materials, may result in fire.

### **Hazardous Polymerization**

Will not occur.

## **11. TOXICOLOGICAL INFORMATION**

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### **Toxicology Information**

Acute toxicity data:

LD50 (Oral, rat): 1420 mg/kg

LD50 (Dermal, rabbit): 3160 - 5100 mg/kg

### **Inhalation**

Product dusts can cause irritation to the mucous membrane and upper airways. Inhalation of chlorine can result in severe respiratory irritation. Delayed effects can include shortness of breath, severe headache, pulmonary oedema and pneumonia.

### **Ingestion**

Harmful if swallowed. Can result in diarrhoea, abdominal pain, ulceration of the stomach, difficulty in breathing, loss of consciousness, coma and possible death.

### **Skin**

May cause irritation in contact with the skin, resulting in redness and itching. Repeated or prolonged contact may lead to allergic contact dermatitis.

### **Eye**

Irritating to eyes, resulting in redness and lachrymation. Contact may result in corneal burns and possible permanent injury.

### **Chronic Effects**

Not available

## **12. ECOLOGICAL INFORMATION**

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### **Ecotoxicity**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **Persistence / Degradability**

Not available

### **Mobility**

Not available

### **Environmental Protection**

Do not allow product to enter drains, waterways or sewers.

## **13. DISPOSAL CONSIDERATIONS**

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### **Disposal considerations**

The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

## **14. TRANSPORT INFORMATION**

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### **Transport Information**

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

**U.N. Number**

None Allocated

**DG Class**

None Allocated

**Packing Group**

None Allocated

## 15. REGULATORY INFORMATION

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**Regulatory information**

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Classified as a Scheduled Poison S6 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule**

S6

**Hazard Category**

Harmful,Irritant,Dangerous for the environment

**Australia (AICS)**

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

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**Date of preparation or last revision of MSDS**

SDS Amendment: August 2013

Section 1: Identification of the Material and Supplier

MSDS Created: May 2009

**Contact Person/Point**

## END OF SDS

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