

Aquachlor pH Up

MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: Aquachlor pH Up
Other Names: Sodium Carbonate
Manufacturers' Code & Pack Size: A67686 2 kg
Recommended Use: A mildly alkaline salt used to control scaling, etching and excessive chlorine usage by buffering the acidity of swimming pool water
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

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:

R36 Irritating to eyes

Safety Phrases:

S (2) Keep out of reach of children

S22 Do not breathe dust.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity†	Synonyms	CAS Number	Concentration
Sodium carbonate	Soda ash	497-19-8	99-100%

† 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. Wash out mouth with water and give plenty of water to drink. If symptoms develop seek medical attention.

Skin: Wash affected area extremely thoroughly with lukewarm running water. Remove contaminated clothing and wash before reuse or discard. Obtain medical attention if symptoms persist.

Eye: If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek immediate medical attention.

Inhaled: Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.

First Aid Facilities: Eye wash and normal facilities.

Advice to Doctor: Treat symptomatically or consult a Poisons Information Centre.

SECTION 5 - FIRE FIGHTING MEASURES

Hazchem Code: None allocated.

Extinguishers: Use water spray, foam or dry agent.

Fire Fighting Precautions: Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

Combustion Products: This product is non-combustible,

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Restrict access to area. Provide adequate protective equipment and ventilation. Remove chemicals that can react with the spilled material. Stop or reduce discharge if it can be done safely. Contain material. Do not allow sodium carbonate to enter into sewers or water systems. Shovel or sweep up dry sodium carbonate for recycling or disposal. Neutralise final traces and flush area with water. Contain spilled solutions by diking with absorbent material, such as sand or earth. Solution can be

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recovered or carefully diluted with water and cautiously neutralized with acids such as acetic acid or hydrochloric acid.

SECTION 7 - HANDLING AND STORAGE

Handling: Wear appropriate protective equipment to prevent skin and eye contact. Avoid generating mist or dust. When diluting or preparing solution, add to water in small amounts to avoid boiling and splattering. Label containers and keep closed when not in use. Empty containers may contain residues which are hazardous.

Storage: Store in tightly-closed containers in a cool, dry place separate from normal work area. Area should have a caustic-resistant floor and approved drainage. Store in suitable, labelled containers. Protect containers from damage or breakage. Store separately from acids and other incompatible materials.

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: Engineering control methods to reduce hazardous exposures are preferred. General methods include mechanical ventilation (dilution and local exhaust), process or personnel enclosure, control of process conditions and process modification (e.g. substitution of a less hazardous material). Administrative controls and personal protective equipment may also be required. Use a corrosion-resistant ventilation system separate from other exhaust ventilation systems. Exhaust directly to the outside. Use local exhaust ventilation and process enclosure if necessary, to control airborne dust and mist. Supply sufficient replacement air to make up for air removed by exhaust systems.

Personal Protective Equipment:

Clothing: Suitable work-wear should be worn to protect personal clothing, eg cotton overalls buttoned at neck and wrist. When large quantities are handled the use of plastic aprons and rubber boots is recommended.

Skin Protection: Natural rubber or nitrile gloves should be worn when using this product.

Eye Protection: Safety glasses with side shields or goggles should be worn as described in Australian/New Zealand Standards AS/NZS 1337, Eye Protectors for Industrial Applications,

Respiratory Protection: Where sufficient ventilation is not available, avoid breathing dust by wearing as Australian Standards AS 1716 approved P1 or P2 particulate filter respirator. Reference should be made to Australian/New Zealand 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.

Personal Hygiene: Ensure a high level of personal hygiene is maintained when using this product. Always wash hands before eating, drinking, smoking or using the toilet.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Appearance/Odour:	Grayish white powder or lumps; hygroscopic (on exposure to air, will gradually absorb water, approximately 15%)
pH:	11.5 (1% aqueous solution)
Vapour Pressure:	Not volatile
Vapour Density:	Not applicable
Boiling Point/Range:	Decomposes
Freezing/Melting Point:	851°C
Solubility in Water:	7.1 g in 100 ml @ 0°C, 22 g in 100 ml @ 22°C
Specific Gravity/Density:	2.53 @ 20°C (water = 1)
Flash Point:	None
Lower Flammability Limit:	Not applicable
Upper Flammability Limit:	Not applicable
Ignition Temperature:	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable
Hazardous Decomposition Products:	Carbon dioxide.
Hazardous Reactions:	Reaction with water and acids will generate heat. Will react violently with phosphorous pentoxide and sulphuric acid. Ignites and burns fiercely with fluorine. May react explosively with magnesium and red hot aluminium.

SECTION 11 - TOXICOLOGICAL INFORMATION

Animal Toxicity Date:	Lethal dose oral (rat) = 4000 mg/kg LC ₅₀ inhalation (rat) = 2100-2500 mg/m ³ ; duration of exposure, 2 hours (91% sodium carbonate aerosol); whole body exposure (3). LC ₅₀ inhalation (mouse) = 1200 mg/m ³ ; duration of exposure, 2 hours (95% sodium carbonate aerosol); whole body exposure (3). LC ₅₀ inhalation (guinea pig) = 800 mg/m ³ ; duration of exposure, 2 hours (95% sodium carbonate aerosol); whole body exposure (3).
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Skin Irritation: (rabbit) Moderate skin irritant (500 mg; 24 hour exposure)

Eye Irritation: (rabbit) severe eye irritant (100 mg; 24 hour exposure) Male rats exposed to an aerosol of a 2% aqueous solution of sodium carbonate (particle size less than 5 microns in diameter) for 4 hours/day, 5 days/week for 3-1/2 months showed no pronounced effects. Exposure to extremely high concentrations (approx. 70 mg/m³) resulted in reduction in weight gain and cellular changes in the lungs (probably due to irritation).

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Skin: 50% aqueous solution applied to intact and abraded skin of rabbits, guinea pigs and human volunteers. No effect on intact skin. Abraded guinea pig skin affected minimally. Abraded rabbit and human skin showed mild irritation. Pregnant mice, rats and rabbits orally intubated (intra gastric administration) with low to very high doses of aqueous sodium carbonate solution. No positive findings reported.

Acute Effects:

Swallowed: Ingestion of large amounts may result in cramps, vomiting, diarrhoea and possible circulatory collapse and death.

Skin: Dust or solid can cause mild to moderate irritation. Concentrated solutions can be corrosive, causing severe irritation and burning.

Eye: Moderate to severe irritation. Direct contact with solid or concentrated solution may result in permanent injury to eye unless promptly rinsed from eye with water.

Inhaled: Irritation of the nose, throat and lungs may occur due to the irritant nature of sodium carbonate. Symptoms may include coughing, sneezing and difficulty breathing.

Chronic Effects: Repeated or prolonged skin contact may result in dermatitis and/or ulceration of the skin. Prolonged inhalation may lead to perforation of the nasal septum.

SECTION 12 - ECOLOGICAL INFORMATION

No data available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of according to relevant local, state and federal government 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

Poisons Schedule: S5

Product: Sodium carbonate (CAS: 497-19-8) is found in the following regulatory lists:

High Volume Industrial Chemicals List (HVICL)

International Programme on Chemical Safety (IPCS) – SIDS

Hazardous Substances Information System

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International Council of chemical Associations (ICCA) – High Production Volume List
New Zealand Inventory of Chemicals (NZIoC) HSNO Approval Code: HSR003265

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
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.