MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: **Aquachlor pH Buffer**
Other Names: Sodium bicarbonate
Manufacturers' Code & Pack Size: A67993 2 kg
A67685 4 kg
A67134 10 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

Not 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: None
Safety Phrases: None

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity†	Synonyms	CAS Number	Concentration
Sodium bicarbonate	Carbonic acid, monosodium salt	144-55-8	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. Seek medical attention.

Skin: Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

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

Inhaled: If inhaled, remove from contaminated area. If symptoms develop seek medical attention.

First Aid Facilities: Eye wash and normal washroom facilities.

Advice to Doctor: Treat symptomatically.

SECTION 5 -FIRE FIGHTING MEASURES

Hazchem Code: None allocated.

Extinguishers: Use extinguishing media suitable for surrounding area.

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

Combustion Products: Non combustible material.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Remove all sources of heat. Increase ventilation. Evacuate all unnecessary personnel. Wear sufficient respiratory protection and full protective clothing to minimize skin and eye exposure. Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid generating dust. Use smallest possible amounts in designated areas with adequate ventilation. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Label containers. Keep containers closed when not in use. Wear appropriate protective equipment to prevent inhalation, skin and eye contact. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking, smoking or using the toilet.

Storage: Store in a cool, dry well-ventilated area, out of direct sunlight and moisture. Store in labelled, corrosion-resistant containers. Keep containers tightly closed. Store away from water and incompatible materials. Have appropriate fire extinguishers available in and near the storage area.

Incompatibilities: Acids and oxidising agents**.**

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. However, the exposure standard for dust not otherwise specified is 10 mg/m^3(for respirable dust).

Engineering Controls: Use with good general ventilation. If dusts are produced local exhaust ventilation should be used.

Personal Protective Equipment:

Clothing: Wear appropriate clothing including chemical resistant apron where clothing is likely to be contaminated.

Skin 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. Reference should be made to Australian/New Zealand Standards AS/NZS 2161.1 - Occupation Protective Gloves – Selection, use and maintenance.

Eye Protection: Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform to Australian/New Zealand Standards AS/NZS 1337 -Eye Protectors for Industrial Applications.

Respiratory Protection: If engineering controls are not effective in controlling airborne exposure then respiratory protective equipment should be used suitable for protecting against airborne contaminants. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian/New Zealand Standards AS/NZS 1715 – Use and maintenance of Respiratory Protective Devices; and Australian/New Zealand Standards AS/NZS 1716 – Respiratory Protective Devices

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, odourless powder.
pH:	8.4
Vapour Pressure:	Not applicable
Vapour Density:	Not applicable
Boiling Point/Range:	Not available
Freezing/Melting Point:	Not available
Solubility in Water:	Soluble
Specific Gravity/Density:	2.16 (20ºC)
Flash Point:	Not applicable
Lower Flammability Limit:	Not applicable
Upper Flammability Limit:	Not applicable
Ignition Temperature:	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Material:	Acids and oxidising agents.
Hazardous Decomposition Products:	Thermal decomposition and combustion produce noxious fumes containing oxides of carbon and sodium carbonate.

SECTION 11 -TOXICOLOGICAL INFORMATION

Toxicology Information: LD_{50} (Oral, Rat) - 4220 mg/kg
Lowest Toxic Dose (Oral, Human) – 1260 mg/kg

Acute Effects:

Swallowed: Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin: Skin contact may cause mechanical irritation resulting in redness and itching.

Eye: Eye contact may cause mechanical irritation. May result in mild abrasion.

Inhaled: Inhalation of dusts may irritate the respiratory system.

Chronic Effects: Not expected to cause chronic health effects.

SECTION 12 -ECOLOGICAL INFORMATION

Avoid contamination waterways, drains, sewers or ground

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Methods and Containers: Dispose of waste according to EPA, state and federal 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 bicarbonate is mentioned in the SUSDP as a substance not requiring control by scheduling

Product: Sodium bicarbonate (CAS: 144-55-8) is found in the following regulatory lists:

High Volume Industrial Chemicals List (HVICL)

High Volume Industrial Chemicals List (ICCA)

International Programme on Chemical Safety (IPCS) – SIDS

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.