



Company Details:

Waterwell Projects (PTY) LTD

Reg No. 2001/018862/07

Waterwell Projects (PTY) LTD
Unit 4 Megazone Park
Hertford Junction R512
Lanseria
1748

Tel: 011 300 9917/8 or 073 077 0973

Fax: 086 605 9360

Poison Centre: **+27 21 689 5227**

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

a) Identification of the substance or preparation :

- 1.1 Commercial name : Waterwell Aqua Balance 1 (packed 1kg, 2kg, 5kg or 25kg)
- 1.2 Chemical name : Sodium Bicarbonate.
- 1.3. Synonyms : Baking soda, bicarbonate of soda, nahcolite, sodium bicarbonate, sodium hydrogen carbonate
- 1.4. Chemical formula : NaHCO_3
- 1.5. UN No: N/A
- 1.6. CAS No : 144-55-8
- 1.6. EEC No :

b) Information of Distributor :

Waterwell Projects (PTY) LTD
Unit 4 Megazone Park
Hertford Junction R512
Lanseria 1748
Tel: 011 300 9917/8 or 073 077 0973
Fax: 086 605 9360

Alternate suppliers:

CJP Chemicals (Pty) Ltd	or:	Crossmill Chemicals CC
P. O. Box 1353		P O Box 1272
Cresta 2118		Lonehill 2062
32 Tiger Moth ave		34 Renico Crescent Lea Glen,
Aeroton 2190		Roodepoort, Gauteng 2195
Tel: 011 494 6700		Tel: 011 472 4986
Fax: 011 494-6701		Fax: 011 472 0730

2. COMPOSITION / INFORMATION ON INGREDIENTS

Dangerous ingredient	% w/w	Hazard classification	Risk phrases
Sodium Bicarbonate	min. 99%	None	

3. DESCRIPTION OF HAZARDS

Irritation of mucous membrane and tissue

Runoff from fire-control or dilution water could cause pollution.

4. FIRST AID MEASURES

4.1 Contact with the skin:

Immediately remove contaminated clothing under running water.

Flush body with plenty of water for at least 15 minutes.

4.2 Contact with the eyes:

Flush eyes with water for 15 minutes, holding eyelids open while washing.

Seek medical attention.

4.3 Ingestion

Do not induce vomiting. Rinse mouth and administer fresh water if subject is conscious.

Seek medical attention.

4.4 Inhalation

Remove subject to fresh air, blow nose.

Seek medical attention in case of respiratory symptoms.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media :

Water CO₂

5.2 Extinguishing media not to be used :

Powder based on ammonium salt and halogenous extinguishing media.

5.3 Special hazards resulting from exposure to the combustion products, or produced gloves :

Extinguish with big quantities of water (small quantities may aggravate the situation). Product is not flammable, but may decompose at high temperatures, thus emitting toxic gases. If the fire only affects part of the drums, isolate them from the rest by taking them if possible to a well ventilated area and letting them consume. For small fires CO₂ extinguishers can be used.

5.4 Special protective equipment for firefighters:

Self-contained breathing equipment to protect the respiratory tracts, as well as clothes and gloves suitable for skin protection.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions :

See Section No 8

6.2 Environmental precautions :

Prevent product from reaching the sewage system or superficial water. If product reaches a natural water-course, warn the civil protection authorities.

6.3 Cleaning up method:

Sweep and fully collect the spilled product. If there is some non-polluted product left separate it from the rest and collect it into the original drum or another clean container with inner plastic bag; this product can normally be used.

Dirty product must be collected from the ground into the original drum or another clean container with inner plastic bag and must be destroyed.

Product contaminated with water or other chemical products must not be transported. It must be immediately diluted with plenty of water and destroyed.

7. HANDLING AND STORAGE

7.1 Handling :

Do not produce dust. Handle far from other chemicals. Do not smoke. See Section 8.

7.2 Storage :

Keep product in suitable closed containers (metallic or wooden containers must not be used), in a fresh, dry and ventilated place, far from any ignition source and other chemical products. If product is stored with other products, it should be placed in a separate compartment near the exit door, which should be free from obstacles, in order to take product away quickly if necessary.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

VENTILATION:

RESPIRATORY PROTECTION: Respiratory protection is required if dust levels are high (>10mg/m³). An approved dust/mist respirator should be worn in dusty environment.

EYE PROTECTION:

SKIN PROTECTION: Avoid skin and eye contact and inhalation of dust. Wear overalls, safety glasses or goggles and impervious (rubber) gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WORK HYGIENIC PRACTICES: Always wash hands before smoking, eating, drinking or using the toilet

EXPOSURE GUIDELINES:

SECTION 8 NOTES:.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White crystalline solid
ODOUR:	odourless
PHYSICAL STATE:	
pH AS SUPPLIED:	8.4 (10g/L solution)
BOILING POINT:	No data available
MELTING POINT:	Starts to decompose at 70°C
FREEZING POINT:	No data available
VAPOR PRESSURE (mmHg):	No data available
VAPOR DENSITY (AIR = 1):	No data available

SPECIFIC GRAVITY (H₂O = 1): 2.159 compressed solid. 1.0 for granular form (bulk density)

SOLUBILITY IN WATER: 96g/L (20°C)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures..

CONDITIONS TO AVOID: Decomposes with heat to release carbon dioxide

INCOMPATIBILITY: Reacts with acids to release carbon dioxide

HAZARDOUS DECOMPOSITION: Reacts with acids to release carbon dioxide

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Oral LD50(rat): 4220mg/kg

12. ECOLOGICAL INFORMATION

BIODEGRADABILITY: Data not available

PRECAUTIONS: Product is rated as non-hazardous to aquatic species

13. DISPOSAL CONSIDERATIONS

Into landfill using approved waste disposal operative.

14. TRANSPORT INFORMATION

- 14.1 **Labelling for transportation:** N/A
- 14.2 **Substance for identification:** 144-55-8
- 14.3 **ADR / RID;**
- 14.4 **IMDG:**
- 14.5 **ICAO / IATA**

15. REGULATORY INFORMATION

HAZARDS: Not regulated for supply.

SYMBOLS: N/A

RISK PHRASES: N/A

SAFETY PHRASES: N/A

16. ANY OTHER RELEVANT INFORMATION ;

N/A. = none applicable

The information herein is given in good faith and to the best of our knowledge at the current date. The accomplishment of the instructions herein does not exempt the user from following the legal and administrative regulations relative to product, environmental safety and hygiene, which are user's own responsibility. In case of mixture with other substances, ensure that other risks are not generated.

Date of Revision: 21 August 2014 (general revision)



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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

a) Identification of the substance or preparation :

1.1 **Commercial name :** Waterwell Aqua Balance 2 (packed 1kg, 25kg)

1.2 **Chemical name :** Sodium Carbonate.

1.3. **Synonyms :** Disodium Salt, Carbonic Acid, Soda Ash,

Crystal Carbonate 171

1.4. **Chemical formula :** Na_2CO_3

1.5. **CAS No :** 497-19-8

1.6. **EEC No :**

b) Information of Distributor :

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2. COMPOSITION / INFORMATION ON INGREDIENTS

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Sodium Carbonate	min. 99%		

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4.3 Ingestion

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Seek medical attention.

4.4 Inhalation

Remove subject to fresh air, blow nose.

Seek medical attention in case of respiratory symptoms.

5. FIRE-FIGHTING MEASURES

FIRES : Water, or dry chemicals, CO2 or Halon.

Keep unnecessary people away, isolate hazard area and deny entry.

Non combustible.

Structural firefighter's protective clothing will provide limited protection.

Limit water run-off into drains or natural waterways.

6. ACCIDENTAL RELEASE MEASURES

Respirator, dust mask and protective gloves.

PRECAUTIONS;

Restrict access to area.

Prevent dust formation; collect in suitable container for removal.

Prevent washing into sewers, soils or natural waterways.

Provide adequate protective equipment and ventilation.

Notify occupational and environmental authorities.

SMALL SPILLS;

Flush area with flooding amounts of water.

7. HANDLING AND STORAGE

Recommended :

Remove from Organic Peroxides Poison Corrosives

Storage in the same room or space is prohibited with the following classes :

The rooms or spaces should be at least 10M apart.

Explosives Flammable Gases Poisonous Gases Flammable Liquids

Flammable Solids Spontaneously Combustibles Dangerous When Wet
Radioactive

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: No Exposure Limits Established.

Controls: The control measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Have a safety shower/eye wash fountain readily available in the immediate work area.

Personal Protection: If engineering controls and work practices are not effective in controlling this material, then wear suitable personal protection equipment, including chemical safety goggles and face shield, boots, imperious gloves, coveralls and respiratory protection.

Have appropriate equipment available for use in emergencies.

9. PHYSICAL AND CHEMICAL PROPERTIES

Odourless, colourless or white efflorescent crystals or powder with a strongly alkaline taste.

Boiling Point : No data

Melting Point : = 851 ° C

Density : = 2.509 @ 20 ° C

Solubility in water: = 71g / lt @ 0 ° C and 210 g / lt @ 20 ° C

Decomposition: >400 ° C

10. STABILITY AND REACTIVITY

Conditions to Avoid : Contact with strong acids, or moisture.

Stable under normal conditions of use.

Incompatible Materials: Negligible.

Other

11. TOXICOLOGICAL INFORMATION

Toxicity : Oral LD 50, rat, > 2000 mg / kg

Inhalation: LC 50, 2 hours rat, 2.3 mg / L.

Irritation: – Rabbit, irritant eyes.

Chronic toxicity :

- Inhalation: rat lungs, 0.07 mg / lt, observed effect.

Comments :

- Toxic effect linked with irritant properties.

12. ECOLOGICAL INFORMATION

Acute ecotoxicity

- Fishes, *Lepomis machrochirus*: LC 50, 96 hours, 300 mg / lt.
- Crustaccans, *Daphnia magna*: EC 50, 48 hours, 265 mg / lt.
- Algae, *Nitzscheria lincaris*: EC 50, 5 days, 242 mg / lt.

Chronic ecotoxicity

- Phytoplankton, EC biomass: , 7 days, 14 mg / lt.

Mobility ;

Air : - n/a

Water: - considerable solubility and mobility

Soil: - non - significant absorption.

Comments :

Observed effects are related to alkaline properties of the product.

No ecological problems are expected when the product is handled and used with due care.

13. DISPOSAL CONSIDERATIONS

Disposal Method Product : There are no uniform EC regulations for the disposal of chemicals or residues.

Chemical residues generally count as special waste.

The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations.

We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal Method Packaging : Disposal in accordance with local legal provisions.

14. TRANSPORT INFORMATION

UN No : ****
EAC : 47
Marine Pollutant: Yes

Class : Not regulated
Subsidiary Risks:
Tremcard Number: ****

15. REGULATORY INFORMATION

EEC Hazard Classification: Not regulated
Risk Phases: Harmful by inhalation and if swallowed
Safety Phases: Avoid contact with eyes
National Legislation : Not regulated

16. ANY OTHER RELEVANT INFORMATION ;

Reason for Alteration: General update. 6 September 2012

The information herein is given in good faith and to the best of our knowledge at the current date. The accomplishment of the instructions herein does not exempt the user from following the legal and administrative regulations relative to product, environmental safety and hygiene, which are user's own responsibility. In case of mixture with other substances, ensure that other risks are not generated.

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