

#### 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 :
  - 1.2 Chemical name :
  - 1.3. Synonyms :
  - 1.4. Chemical formula :
  - 1.5. CAS No :
  - 1.6. EEC No:

Waterwell Aqua Balance 3(packed 4kg, 25kg) Calcium chloride Calcium(II) chloride,Calcium dichloride,E509 CaCl<sub>2</sub> 10043-52-4

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

# 2. COMPOSITION / INFORMATION ON INGREDIENTS Dangerous ingredient % w/w Hazard classification Risk phrases

or:

Calcium chloride 75 - 97% HAZARDOUS SUBSTANCE R22 R36 NON-DANGEROUS GOODS

# 3. DESCRIPTION OF HAZARDS

Irritant. Causes irritation to skin, eyes and respiratory organs. Harmful if inhaled or wallowed.

Health Effects

Inhalation

Granular grade material does not have a significant inhalation hazard. Inhalation of dust may cause irritation to the respiratory organs. Symptoms: coughing and shortness of breath.

Ingestion

Low toxicity chemical. Ingestion causes irritation of the mucous membranes due to heat of hydrolysis. Large amounts can cause gastrointestinal problems, nausea, vomiting and abdominal pain.

Skin Contact

Solid calcium chloride might cause mild skin irritation (dry skin). Aqueous solutions or solid in contact with wet skin might cause severe irritation or burns.

Eye Contact

Causes mechanical abrasion or burns from heat of hydrolysis and chloride irritation.

# 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

Suitable Extinguishing Media: environment.	Use appropriate fire extinguisher for surrounding
Specific Hazards :	This product is non-combustible.
Hazchem Code :	None allocated

#### 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

Precautions for Safe Handling; 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.

Conditions for Safe Storage; Store in a cool dry place, out of direct sunlight. This product is subject to deterioration during storage. Protect against moisture as the presence of water will accelerate this deterioration.

Respiratory Protection:Where sufficient ventilation is not available, avoidbreathing dust by wearing an AS 1716 approved particulate filter respirator.Eye Protection:Safety glasses with side shields or goggles should beworn.Hand Protection;The use of nitrile rubber gloves is recommended.Body Protection ;Suitable workwear should be worn to protect clothing.

#### 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

Appearance: Melting Point: Boiling Point: Solubility in Water: pH Value: Flammability: Molecular Weight: White, odourless fine crystals 260°C 1600°C Soluble approx. 5-8 (50 g/l H2O, 20°C) This product is non-combustible 147.02

# 10. STABILITY AND REACTIVITY

Chemical Stability: Stable under ordinary conditions of use and storage. Substance will pick up moisture from the air and go into solution if exposed to air in open containers. Incompatible Materials: Methyl vinyl ether, water, zinc, bromine trifluoride, mixtures of lime boric acid, barium chloride, and 2-furan percarboxylic acid. Metals will slowly corrode in aqueous calcium chloride solutions. Aluminum (and alloys) and yellow brass will be attacked. Hazardous Polymerization: Will not occur.

Other Information: This product is strongly hygroscopic, therefore do not leave containers standing open.

# **11. TOXICOLOGICAL INFORMATION**

Toxicology Information:Oral - LD50 (Rat) 1.4 g/kgInhalation:Inhalation of dust may result in irritation of the mucousmembrane and upper airways. Symptoms may include nausea, headaches, sneezing andpossible breathing difficulties.Ingestion:Harmful if swallowed. May cause irritation to the mouth,

esophagus and stomach if swallowed in large quantities.

Skin : May cause mechanical irritation in contact with the skin, which may result in redness and itching.

Eye : Will cause irritation in contact with the eyes, which can result in redness, stinging and lachrymation. Not anticipated to cause permanent eye injury. Chronic Effects: Prolonged or repeated contact with this material may result in irritation leading to possible contact dermatitis.

# 12. ECOLOGICAL INFORMATION

Acute ecotoxicity

Toxicity to fish: 13,400 mg/l Exposure time: 48 h Species: Gambusia affinis (Mosquito fish) Toxicity to daphnia and other aquatic invertebrates calcium chloride : LC50: 759 - 3,005 mg/l Species: Daphnia magna (Water flea) Bioaccumulation calcium chloride (Aerosol) : This substance is not considered to be persistent, bioaccumulation nor toxic (PBT).

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

#### **13. DISPOSAL CONSIDERATIONS**

Product that cannot be used for recovery or recycling should be managed by an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Disposal regulations may differ on country / state / region basis. Dispose of container and unused contents in accordance with local requirements.

#### 14. TRANSPORT INFORMATION

Class : Subsidiary Risks: Not regulated Hazard Category; Harmful, Irritant

#### **15. REGULATORY INFORMATION**

Poisons Schedule:	Not Scheduled
Hazard Category;	Harmful, Irritant

#### 16. ANY OTHER RELEVANT INFORMATION ;

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)