



**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 Dazzle (packed 1L or 25L)  
1.2 Chemical name: Organic Polyelectrolite  
1.3. Synonyms: Polyaluminum Chloride, Poly-Floc 2510  
1.4. Chemical formula :  $Al_nCl_{(3n-m)}(OH)_m$   
1.5. UN No: 3265  
1.6. CAS No: 1327-41-9  
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:

Professional Laboratory Services (PTY) LTD  
160 Edison Crescent  
Wesrihan Park, Unit A3  
Centurion 0157  
Tel: 083 240 7448 / 082 375 9734  
Fax: 086 723 0178

### 2. HAZARDS IDENTIFICATION

Main Hazard: Irritating to eyes, skin and gastrointestinal tract.  
The compound may be associated with skin sensitization in some humans.  
High exposure may lead to eye corrosion and skin burns.

Flammability: Non-flammable

Chemical Hazard: Strong Acid (pH adjusted to 2.5 - 4.0 with Hydrochloric acid)

Physical Hazards: Extremely slippery on smooth and wet surfaces

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No	% w/w	Hazard classification	Risk phrases
Aluminum Chlorohydrate	1327-41-9	min. 49.9%		
Polymer blend				
Water	7732-18-5	50 %		None established

#### 4. FIRST AID MEASURES

Product in the eye: Flush with clean, cool water or normal saline solution for 15 minutes. See a physician, preferably an ophthalmologist for further evaluation.

Product on the skin: Wash with soap and water. Remove and wash contaminated clothing. See a physician if irritation occurs.

Product ingested: **DO NOT INDUCE VOMITING.** Rinse with copious amounts of water or milk. Irrigate the oesophagus and dilute contents by slowly giving 1 to 2 glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVES FLUIDS by mouth. In case of internal ingestion of the product, seek medical attention immediately.

Inhalation: Remove to fresh air. If individual experiences nausea, headache, dizziness, breathing difficulties or is cyanotic, seek medical attention immediately.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Treat symptoms.

#### 5. FIRE FIGHTING MEASURES

Extinguishing Media: The product is non-flammable. Dry components may ignite and burn when exposed to an open flame. Extinguish with water fog, carbon dioxide or dry chemical powder.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Spills of this product are very slippery. Spills should be scooped up or wiped up immediately and the spill area flushed with water.

Large spill: Dam area to prevent spill from spreading. Minimise adverse effects on the environment. Recover as much as possible of the pure product into appropriate containers. Later, determine if this recovered product can be used for its intended purpose. Clay, soil, or commercially available adsorbents may be used to recover any material that cannot be recovered as pure product.

Small spill: Flushing of residual material to an industrial sewer, if present at the site of a spill or leak, maybe acceptable if authorised approval is obtained. If this is the case, ensure that the product does not come into contact with incompatible materials.

Product disposal: Product is a non-hazardous waste. Dispose in an approved landfill.

#### 7. HANDLING AND STORAGE

Handling: Should be handled like any acidic product.

Storage: Do not store next to alkaline products and/or oxidisers.

Precautions: The handling precautions for this product are based on the characteristics of the neat product unless otherwise specified. Store in a cool dry place. Rubber gloves and safety goggles are required. Body protective clothing and safety shoes are required. Eyewash fountains in the work place are strongly recommended.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: None

Engineering Control Measures: Provide local exhaust ventilation.

Personal Protection – Respiratory: In case of insufficient ventilation, wear-suitable respiratory equipment.

Personal Protection – Hand: Rubber gloves.

Personal Protection – Eye: Safety goggles are required.

Personal Protection – Skin: Body-protective clothing and safety shoes are recommended. Where splashing can occur, a protective face-shield is required.

Other Protection: Eye wash fountain in the workplace is strongly recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid

Colour: Pale green

Odour: Slight Acidic

Ph: 3.0 - 5.0

Boiling Point: Similar to water

Density: SG: 1.1

Freeze Thaw recovery: Complete

Heat stability: Stable at 40 degrees C over 24 Hour period.

Flammability: Non-flammable.

Explosive properties: Non-explosive.

Oxidising properties: Non-oxidising.

## 10. STABILITY AND REACTIVITY

Stability: Stable and under normal conditions.

Conditions to avoid: Oxidizing agents may cause exothermic reactions  
Hazardous Decomposition Products: Thermal decomposition may produce:  
Nitrogen oxides (Nox), carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity -Oral: LD 50 / oral / rat > 5000 mg/kg  
-Dermal: The results of testing on rabbits showed this material to be non-toxic even at high dose levels.  
Irritation: -Inhalation: The product is not expected to be toxic by inhalation  
-Skin: The results of testing on rabbits showed this material to be non-irritating to the skin.  
-Eyes: Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.

Sensitization: The results of testing on guinea pigs showed this material to be non-sensitizing

Chronic toxicity: A two-year feeding study on rats did not reveal adverse health effects.  
A one-year feeding study on dogs did not reveal adverse health effects.

## 12. ECOLOGICAL INFORMATION

Acute aquatic toxicity -Fish: LC 50 / Danio rerio / 96 hours >100 mg/l (OECD 203)  
-Daphnia: EC50 / Daphnia magna / 48 hours > 100mg/l (OECD 202)  
-Algae: IC50 / Scenedesmus subspicatus /72hours > 100mg/l (OECD 201)

Hydrolysis: Does not hydrolyze.  
Biodegradation: Not readily biodegradable.  
Logpow: 0  
Bioaccumulation: Does not bio accumulate.

## 13. DISPOSAL CONDITIONS

Disposal Method: Product is a non-hazardous waste. Dispose in an approved landfill. Offer empty drums for recycling or triple rinse and dispose of in an approved landfill.

## 14. TRANSPORT INFORMATION

DOT Shipping: Non-hazardous  
Un No.: 3265

## 15. REGULATORY INFORMATION

### WARNING

Hazard: Harmful if inhaled or swallowed. Do not get in eyes, on skin or clothing  
Wear chemical splash goggles or face shield and impervious gloves, footwear and clothing.  
Wash thoroughly after handling.  
Use with adequate ventilation.  
In case of spill, absorb with inert material, remove, decontaminate and flush with water.

**FIRST AID**

Eyes: Immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin: Immediately flush with water for 15 minutes. Remove contaminated clothing and wash before re-use.

Ingestion: Consult physician or poison control centre.

Before use, read Material Safety Data Sheet for further information including chronic health effect.

**16. OTHER 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: 28 October 2014 (general revision)*