

WATER\$AVE MEDIUM - SAFETY DATA SHEET

1. IDENTIFICATION and COMPANY DETAILS

Product Name: Water\$ave Medium

Recommended Use: Used for transplanting, gardens and revegetation areas. Also used to improve the efficiency of fertilizers & nutrients either introduced or existing in the soil structure.

Supplier: **Polymer Innovations Pty Ltd**
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2. HAZARDS IDENTIFICATION

Product Code: Water\$ave Medium **Dangerous Goods Class:** None

U.N. Number: None **Poisons Schedule:** None

Hazchem Code: None **Hazard Class:** None

Risk Phrase (s): None

Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water.
Seek medical advice.

Product swells in water. When wet renders surfaces extremely slippery.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

**NOT CLASSIFIED AS HAZARDOUS ACCORDING TO
CRITERIA OF WORKSAFE AUSTRALIA [NOHSC:2011(2003)]
NOT CLASSIFIED AS HAZARDOUS ACCORDING TO GHS.**

- Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.
- Poisons Schedule (Australia): Not Applicable.

**No adverse health effects expected if product is handled in accordance with this
Safety Data Sheet and the product label.**

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: Super Absorbent Polymer—cross linked.

CAS Number: Available on request.

Proportion: Not assigned.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. No hazards which require special first aid measures.

Skin: Wash off with soap & plenty of water. Get medical attention if irritation develops & persists.

Eye: Rinse immediately with plenty of water, also under eyelids, for at least 15mins. In case of persistent eye irritation, consult a physician.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Get medical attention.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: *Hazardous decomposition products*
Thermal decomposition may produce: nitrogen oxides (NO_x), carbon dioxides (CO_x). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere..

Advice for Fire-fighters: *Protective measures*
In the event of a fire, wear self-contained breathing apparatus.

The product swells in water. The product, when wet renders surfaces extremely slippery.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: The product swells in water. The product, when wet renders surfaces extremely slippery.

Environmental Precautions: Do not flush into surface water.

Methods & material for Containment & cleaning up: Do not flush with water. Clean up by sweeping or vacuum. Keep in suitable closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling: No special precautions required. The product swells in water. The product, when wet renders surfaces extremely slippery.

Safe Storage: Keep in a dry place. Keep container closed when not in use. Incompatible with strong acids & oxidizing agents.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:	<i>Occupational exposure limits:</i> None.
Engineering controls:	Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dust.
Individual Protection measures:	
• Respiratory protection	No personal respiratory protection equipment normally required. Dust safety masks recommended where working powder concentration is more than 10mg/m ³ .
• Hand protection:	PVC or other plastic material gloves.
• Eye protection:	Safety glasses with side-shields.
• Skin protection:	Work clothes protecting arms, legs & body.
Additional advice:	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls:	Do not allow uncontrolled discharge of product into the environment. Do not flush into surface water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Granular solid,
Colour:	White
Odour:	None

Safety Data

pH:	5 - 8 @ 5g/L
Melting/ freezing point:	>150°C
Boiling point range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	Not expected to create explosive atmospheres
Vapour pressure:	Not applicable
Vapour density:	Not applicable
Relative density:	0.6 - 0.9
Solubility:	Insoluble in water
Partition coefficient:	-2
Autoignition temperature:	Doesn't self-ignite
Decomposition temperature:	>150°C
Viscosity:	Not applicable
Explosive Properties:	Not expected to be explosive based on the chemical structure
Oxidizing properties:	Not expected to be oxidizing based on the chemical structure

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10. STABILITY AND REACTIVITY

Reactivity:	None known
Chemical Stability:	Stable under normal conditions
Possibility of hazardous reactions:	Oxidizing agents may cause exothermic reactions
Conditions to avoid:	None known
Incompatible Materials:	Incompatible with strong acids & oxidizing agents
Hazardous decomposition products:	Thermal decomposition may produce nitrogen oxides (NO _x), carbon oxides (CO _x) & hydrogen cyanide (hydrocyanic acid)

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	LD50/oral/rat > 5000 mg/kg
Acute dermal toxicity:	LD50/dermal/rat > 5000 mg/kg.
Acute inhalation toxicity:	The product is not expected to be toxic by inhalation
Skin corrosion/irritation:	Not irritating
Serious eye irritation/damage:	Not irritating
Respiratory/skin sensitisation:	Not sensitizing.
Carcinogenicity:	Not carcinogenic
Reproductive:	Not toxic for reproduction
STOT - singlet exposure:	No know effects
STOT—repeated exposure:	No know effects
Aspiration hazard:	No hazards resulting from the material as supplied

12. ECOLOGICAL INFORMATION

Toxicity

Acute toxicity to fish:	LC50/Danio rerio/96 hours > 100mg/L (OECD 203) LC50/Oncorhynchus mykiss/96 hours >100mg/L (OECD 203)
Acute toxicity to invertebrates:	EC50/Daphnia magna/48 hours > 100mg/L (OECD 202)
Acute toxicity to algae:	IC50/Scenedesmus subspicatus/72 hours > 100mg/L (OECD 201)
Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available

Persistence & Degradability

Degradation:	Not readily biodegradable
Hydrolysis:	Doesn't hydrolyse
Photolysis:	No data available

Bioaccumulative potential

Not bioaccumulating

Partition co-efficient (log Pow):	-2
Bioconcentration factor (BCF):	No data available

Mobility in the soil:	None
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13. DISPOSAL CONSIDERATIONS

Waste from residues/unused product:	Dispose of in accordance with local, state and national regulations. Can be land filled or incinerated, when in compliance with regulations.
Contaminated Packaging:	Dispose of in accordance with local, state and national regulations. Can be land filled or incinerated, when in compliance with regulations.
Recycling:	This product & packaging are not suitable for recycling.

14. TRANSPORT INFORMATION

Land transport (ADG):	Not classified
Sea Transport (IMDG):	Not classified
Air Transport (IATA):	Not classified

15. REGULATORY INFORMATION

Australian Inventory of Chemical Substances (AICS)

All components of this product are either listed on the inventory or are exempt from listing.

ACCHS: Not classified according to Approved Criteria for Classifying Hazardous Substances [NOHSC:2011 (2003)].

The information provided in this Safety Data Sheet is correct to the best of my knowledge, information and belief at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not considered to be a warranty or quality specification. The information relates only to the nominated product and may not be valid for such material when used in combination with any other materials or in any process unless specified in the text.