

## WATER\$AVE FLORA GEL - MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION and COMPANY DETAILS

**Product Name:** Water\$ave Flora Gel

**Recommended Use:** Displays, special effects and themes requiring a water gel appearance.  
Growing plants in them for water retention.  
Transportation of flowers

**Supplier:** **Polymer Innovations Pty Ltd**  
2/129 Maison Dieu Road  
P.O. Box 431  
SINGLETON NSW 2330  
Phone: +61 2 6571 5177  
Fax: +61 2 6571 2505

Email: [info@polymerinnovations.com.au](mailto:info@polymerinnovations.com.au)

Web: [www.polymerinnovations.com.au](http://www.polymerinnovations.com.au)

**Emergency Telephone (24 Hours): +61 2 6571 5177**

### 2. HAZARDS IDENTIFICATION

**Product Code:** Flora Gel **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<sub>x</sub>), carbon dioxides (CO<sub>x</sub>). 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

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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

<b>Form:</b>	Granular solid,
<b>Colour:</b>	White
<b>Odour:</b>	None

#### Safety Data

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

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### 10. STABILITY AND REACTIVITY

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

### 11. TOXICOLOGICAL INFORMATION

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

### 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	
<b>Acute toxicity to fish:</b>	LC50/Danio rerio/96 hours > 100mg/L (OECD 203) LC50/Oncorhynchus mykiss/96 hours >100mg/L (OECD 203)
<b>Acute toxicity to invertebrates:</b>	EC50/Daphnia magna/48 hours > 100mg/L (OECD 202)
<b>Acute toxicity to algae:</b>	IC50/Scenedesmus subspicatus/72 hours > 100mg/L (OECD 201)
<b>Chronic toxicity to fish:</b>	No data available
<b>Chronic toxicity to invertebrates:</b>	No data available
<b>Toxicity to microorganisms:</b>	No data available
<b>Effects on terrestrial organisms:</b>	No data available
<b>Sediment toxicity:</b>	No data available
<b>Persistence &amp; Degradability</b>	
<b>Degradation:</b>	Not readily biodegradable
<b>Hydrolysis:</b>	Doesn't hydrolyse
<b>Photolysis:</b>	No data available
<b>Bioaccumulative potential</b>	
Not bioaccumulating	
<b>Partition co-efficient (log Pow):</b>	-2
<b>Bioconcentration factor (BCF):</b>	No data available
<b>Mobility in the soil:</b>	None

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### 13. DISPOSAL CONSIDERATIONS

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

### 14. TRANSPORT INFORMATION

<b>Land transport (ADG):</b>	Not classified
<b>Sea Transport (IMDG):</b>	Not classified
<b>Air Transport (IATA):</b>	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 our 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.