



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product	Water Saving Gel
Usage	Increases the water holding capacity of soils
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	customerservice@WestlandHorticulture.com
Emergency Tel	+44 1480 443789 (UK)

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture According to Regulation (EC) No 1272/2008:

Not classified

Label Elements According to Regulation (EC) No 1272/2008:

Hazard Pictograms	None
Signal Word	None
Hazard Statements	Not applicable
Precautionary Statements	Not applicable
Other hazards	Not applicable



3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Water retaining granules

This product does not contain any reportable hazardous substances

4. FIRST AID MEASURES

General Advice: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

Inhalation: Move person to fresh air.
Keep patient warm and at rest.
No hazards which require special first aid measures.

Skin Contact: Wash off with soap and plenty of water.
Get medical advice if irritation develops and persists.

Eye Contact: Rinse with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses and continue flushing.
Get medical attention if irritation occurs.

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

Information for doctor: No specific treatment, treat symptomatically.
The product swells in water.

5. FIRE FIGHTING MEASURES

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

Unsuitable Extinguishing Media:
None

Specific Hazards Arising From the Substance or Mixture:
Hazardous decomposition products:
Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

Special Protective Equipment for Fire Fighters:
Wear full protective clothing and self-contained breathing apparatus.

Further Information:
The product swells in water. The product makes surfaces extremely slippery when water renders.



6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

The product swells in water.

The product makes surfaces extremely slippery when wet renders.

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Environmental Precautions:

Avoid dispersal of spilled material and runoff and contact waterways, drains and sewers

Methods and Materials for Containment and Cleaning Up:

Do not flush with water. Clean up promptly by sweeping or vacuum

Place into suitable labelled containers for disposal according to local / national regulations

Additional Advice: If large quantities of the product contaminates water courses or drains (including via contaminated soil & vegetation), inform respective authorities.

Residues: After cleaning, flush away traces with water.

Reference to other sections:

See Section 7: Handling and storage

See Section 8 for information on personal protection equipment

See Section 9: Physical and chemical properties

See Section 13: Disposal considerations

7. HANDLING AND STORAGE

Handling:

- Prevent dust formation and inhalation
- Avoid contact with eyes and skin
- Do not eat, drink or smoke when using this product
- Take off contaminated clothing and wash before reuse
- Avoid unnecessary exposure to atmosphere to prevent moisture pick up
- Protect the product from weather factors , high humidity, direct sun light, heat up and impurity
- Wash hands forearms and face and observe good hygiene practice after handling this product

Storage:

- Keep containers closed tightly in a dry, cool and well-ventilated place.
- Keep product in original labeled containers
- Storage areas should be appropriately sited to prevent environmental contamination
- Keep away from organic materials, oil and grease, food and drink
- Incompatible with strong acids and oxidizing agents

Specific End Uses:

Growing media aid to enhance water retention of soils



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

No ingredients with limit values that require monitoring at the workplace.

Derived No and Minimum Effect Levels (DNELs/DMELs)

None known.

Predicted no-effect concentrations (PNECs)

None known.

Exposure Controls

Engineering Measures: Good ventilated areas
Avoid high dust concentration and provide ventilation where necessary

Protective Measures: The use of technical measures should always have priority over the use of personal protective equipment
A risk assessment based on the task being performed and the risks involved should be carried out to determine personal protection equipment required
When selecting personal protective equipment, seek appropriate professional advice
Personal protective equipment should be certified to appropriate standards

Respiratory Protection: No personal respiratory protective equipment normally required. Dust safety masks recommended where working powder concentration is more than 10 mg/m³.

Hand Protection: Wear PVC or other plastic material gloves.

Eye Protection: Wear safety glasses with side-shields.

Skin and Body Protection: Protecting work clothing

Environmental exposure controls: Do not allow uncontrolled discharge of product into this environment. Do not flush into surface water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Granular solid
Colour: White
Odour: Odourless



Other Properties:

	Value
Bulk density	0.74 g/ml
pH	5 – 8 @ 5g/L
Solubility	Insoluble in water
Decomposition temperature	>150 °C

No other relevant information available

10. STABILITY AND REACTIVITY

- Chemical Stability:** Stable under normal conditions of storage, handling and use.
- Hazardous Reactions:** Hazardous reactions will not occur under normal transport or storage conditions.
- Hazardous Decomposition:** Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), hydrogen cyanide (hydrocyanic acid).
- Incompatible Materials:** Incompatible with strong acids and oxidizing agents. Oxidizing agent may cause exothermic reactions.
- Conditions to Avoid:** Avoid contamination by any source including metal, dust and organic material.

11. TOXICOLOGICAL INFORMATION

Information on the product as supplied:

Acute Toxicity

Acute Oral Toxicity: LD50/oral/rat > 5000 mg/kg

Acute Inhalation Toxicity: The product is not expected to be toxic by inhalation.

Acute Dermal Toxicity: LD50/dermal/rat > 5000 mg/kg

Skin Irritation: Not irritating.

Eye Irritation: Not irritating.

Respiratory or Skin Sensitization: Not sensitizing.

Long Term Toxicity: Not mutagenic, carcinogenic, teratogenic nor reproductive toxicity effects or critical hazards

STOT – Single Exposure: No known effects.

STOT – Repeated Exposure: No known effects.

Aspiration Hazard: No hazards resulting from the material as supplied.



12. ECOLOGICAL INFORMATION

Toxicity :

Information on the product as supplied:

- **Acute Toxicity To Fish:** LC50/Danio rerio/96 hours > 100 mg/L (OECD 203)
LC50/Oncorhynchus mykiss/96 hours > 100 mg/L (OECD 203)
- **Toxicity To Invertebrates:** EC50/Daphnia magna/48 hours > 100mg/L (OECD 202)
- **Toxicity To Algae:** IC50/Scenedesmus subspicatus/72 hours > 100 mg/L (OECD 201)

Persistence and Degradability : Not readily degradable.

- **Biodegradability:** Not readily degradable.

Mobility in Soil: None.

Bioaccumulative Potential: Not bioaccumulating.

Results of PBT and vPvB assessment: Does not fulfill the criteria according to Annex XIII of REACH.

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with significant quantities of product
Check if agriculture use is possible.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated Packaging: Empty remaining contents.
Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods

Maritime Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods



15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance of mixture:

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

Chemical Safety Assessment: A Chemical Safety Assessment for this product has been carried out by the original supplier.

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

Full texts of abbreviated H Statements refer to under Section 3: Not applicable

Full text of Classifications: Not applicable

Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
EC No	European Community Number for chemicals within EU regulations
IATA-DGR	Dangerous Goods Regulations by the International Air Transport Association
IMDG Code	International Maritime Dangerous Goods Code
PBT	Persistent, Bioaccumulative and Toxic Properties
Regulation (EC) No 1272/2008	Classification, Labelling and Packaging (CLP)
RID	International Transport of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative Properties

Further information

Before using this product, ensure that you read and understand its label

MSDS information:

This Safety Data Sheet is prepared in compliance with Regulation 1272/2008 and Annex I of the REACH regulation 453/2010.

This safety data sheet provides health and safety information. This product is to be used in applications with best use practice. Individuals handling this product should be informed under COSHH of the recommended safety precautions and should have access to this information. The product information in this data sheet is to the best of our knowledge correct as at the date of publication. Westland Horticulture Limited does not accept responsibility for damage caused by incorrect use of this information.

Training and related advice:

This document contains important information to ensure the safe storage, handling and use of this product. It is the responsibility of your organisation to ensure that the information contained in this document is communicated to the end user and that all necessary training to enable the product to be used correctly has been given.

For further information please contact Westland Horticulture Ltd, 14 Granville Industrial Estate, Granville Road, Dungannon, County Tyrone, BT70 1NJ.