



Safety Data Sheet

According to Regulation (EC) No 453/2010 (REACH); 1272/2008

Trade name: Westland water saving gel

Version:1.0

Revision date: 19.09.2018

Print date:19.09.2018

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

1.1 Product Westland water saving gel

1.2 Relevant identified use increases the water holding capacity of soils

1.3 Details of the supplier of the safety data sheet

Westland Horticulture Ltd
14 Granville Industrial Estate
Granville Road
Dungannon
County Tyrone
BT70 1NJ

Email customerservice@WestlandHorticulture.com

1.4 Emergency telephone number 01480 443789 (UK) 24hrs

2. HAZARDS IDENTIFICATION

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

Not classified

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

Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances: N/A

3.2 Description: water retaining granules

This mixture does not contain ingredients classified as hazardous substances, and has less than 1% of quartz (respirable).



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4. FIRST AID MEASURES

4.1 Description of first aid measures

General information: Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.
Get medical advice if any symptoms occur or persist

Inhalation: Move person to fresh air.
Keep patient warm and at rest.

Skin Contact: Wash off with soap and plenty of water.

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

Ingestion: Rinse out mouth and then drink water

4.2 Most important symptoms and effects, both acute and delayed:
Information not available

4.3 Indication of any immediate medical attention and special treatment needed
No specific treatment. Please note this product swells in water

5. FIRE FIGHTING MEASURES

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

5.2 Specific Hazards Arising From the Substance or Mixture:
Fire may produce hazardous products of combustion such as carbon monoxide, nitrogen oxides, hydrogen cyanide. Exposure to decomposition products may be a hazard to health.

5.3 Advice for Fire Fighters: Wear full protective clothing and self-contained breathing apparatus as required

Further Information: None



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

This product swells in water.

The product makes surfaces extremely slippery when wet.

6.2 Environmental Precautions:

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

6.3 Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material

Do not flush with water

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

- Keep containers closed tightly in a dry cool and well ventilated place
- Keep product in original labelled 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

7.3 Specific End Uses:

Growing media aid to enhance water retention of soils



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No ingredients with limit values that require monitoring at the workplace

8.2 Exposure Controls

Appropriate engineering controls: Good ventilated areas

Avoid high dust concentration and provide ventilation where necessary

Protective Measures: When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high or if a risk assessment indicates this is necessary. (Filter P2)

Hand Protection: Wear suitable gloves when handling the product over long periods or if a risk assessment indicates this is necessary. Gloves complying with EN420

Eye Protection: Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to dust. Safety glasses complying with EN166 as a minimum

Skin and Body Protection: Protective work clothing

8.2.3 Environmental exposure controls: N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: white granular solid

Physical state: solid

Colour: white

Odour: odourless

Odour threshold: none known



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9.2 Other information

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	5.0-8.0	5g/L	-	20°C	-	-
Melting point/freezing point	-	-	-	-	-	-
Initial boiling point/boiling range	-	-	-	-	-	-
Flash point	-	-	-	-	-	-
Evaporation rate	-	-	-	-	-	-
Flammability (solid, gas)	-	-	-	-	-	-
Upper/lower flammability or explosive limits	-	-	-	-	-	-
Upper explosive limits	-	-	-	-	-	-
Lower explosive limits	-	-	-	-	-	-
Vapour pressure	-	-	-	-	-	-
Vapour density	-	-	-	-	-	-
Relative density	0.74 g/ml	-	-	-	-	-
-Solubility(ies)	none	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
-Decomposition temperature	>150°C	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-

Physical hazards: None known

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions of storage, handling and use

10.2 Chemical Stability: Stable under normal conditions of storage, handling and use



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10.3 Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid: Avoid contamination by any source including metal, dust and organic material.

10.5 Incompatible Materials: Incompatible with strong acids and oxidising agents. Oxidising agents may cause exothermic reactions

10.6 Hazardous decomposition products: Thermal decomposition may produce nitrogen oxides, carbon oxides, hydrogen cyanide

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Acute Toxicity: LD50 Oral(Rat) >5000mg/kg

Skin Corrosion/Irritation: The mixture is not classified as skin irritant

Eye damage/ Irritation: The mixture is not classified for eye damage

Respiratory or Skin Sensitization: The mixture is not classified as a sensitizer

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard

Other information: None

12. ECOLOGICAL INFORMATION

The mixture is not classified for environmental hazard

12.1 Toxicity:

- Acute toxicity to fish:**

LC50/Danio rerio	96 hours>100mg/L
LC50/Oncorhynchus mykiss	96 hours>100mg/L



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- **Toxicity to Invertebrates:** EC50/Daphnia magna 48 hours >100mg/L
- **Toxicity to Algae:** IC50/Scenedesmus subspicatus 72 hours>100mg/L

Persistence and degradability: Not readily degradable

Mobility in soil: None

Bioaccumulative potential: None

Results of PBT and vPvB: None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Spread product over land as soil conditioner
 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)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.2 UN Proper shipping name	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3 Transport hazard class(es)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
Hazard label(s)	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods



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14.4 Packing group	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.5 Environmental hazards	Not dangerous goods	Not dangerous goods	Not dangerous goods	Not dangerous goods

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Additional information: N/A

14. REGULATORY INFORMATION

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

This mixture is classified in accordance with Regulation (EC) 1272/2008.

15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been undertaken for this mixture

15. OTHER INFORMATION

16.1 Indication of changes: N/A

16.2 Abbreviations and Acronyms

ADR	International Carriage of Dangerous Goods by Road
CAS No	Chemicals Abstract Service Registry Number
Directive 67/548/EEC	Dangerous Substances Directive (DSD)
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



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16.3 Key literature references and sources for data: Westland Horticulture Ltd

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]: See SECTION 2.1 (classification).

16.5 Relevant H- and EUH-phrases (number and full text): N/A

16.6 Training advice: Follow the instructions

16.7 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 Directive 1999/45/EC, 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.