

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)



Trade name: Westland Rooting powder

Version: 1.0

Revision date: 19.01.2018

Print date: 19th January 2018

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

1.1 Product **Westland Organic Rooting Powder**

Substance name: Silicone dioxide

CAS No.: 7631-89-9

Index No: N/A

EC No: 231-545-4

REACH No: N/A

The transition period according to REACH Regulation, article 23 has not yet expired.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Rooting Fertiliser

Uses advised against: None known

1.3 Details of the supplier of the safety data sheet:

Supplier 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:

The mixture does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008

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

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Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]: Not applicable

Hazard pictograms: None

Signal word: None

Hazard statements: None

Precautionary statements: None

Supplemental Hazard information: None

Special rules for supplemental label elements for certain mixtures: None

Additional labelling: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Substance name: Silicone dioxide

CAS No.: 7631-89-9

Index No: N/A

EC No: 231-545-4

REACH No: N/A

Purity: Unknown

Synonymes: N/A

Stabilisers: N/A

Hazard impurities: N/A

Description Rooting powder

Hazardous Ingredients

Ingredient	Identifiers	Concentration %W/W	Warning Symbols	Regulation (EC) No 1272/2008 (CLP)
Silicone dioxide	CAS 7631-89-9 EC: 231-545-4	>90 %		Substance with Workplace Exposure Limit

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4. FIRST AID MEASURES

4.1 Description of 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.
Get medical advice if symptoms persist or develop

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

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 symptoms persist or develop

Ingestion: Do not induce vomiting unless directed to do so by medical personnel
Rinse out mouth and then drink water
Get medical attention if symptoms persist or develop

Treatment (Medical Advice): Information not available

4.2 Most important symptoms and effects, both acute and delayed: None

4.3 Indication of any immediate medical attention and special treatment needed: None

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

Use foam, carbon dioxide, dry powder or sand

The mixture is not classified as flammable as such extinguishing media should be chosen as appropriate for surrounding materials.

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5.2 Specific Hazards Arising From the Substance or Mixture:

Fire may produce hazardous products of combustion

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.

Further Information:

Cool endangered containers with water spray

Do not allow molten material or run-off from fire fighting to enter drains or water courses.

If fire run-off water enters drains or water course, inform the appropriate water authorities immediately

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust

Avoid contact with skin and eyes

Ensure adequate ventilation

For emergency responders: Use Personal Protective Equipment: coveralls, gloves and eye/face protection

6.2 Environmental Precautions:

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

6.3 Methods and Materials for Containment and Cleaning Up:

Vacuum or sweep up material.

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

6.4 Reference to other sections:

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

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

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

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- Prevent dust formation and inhalation
- Avoid contact with eyes and skin
- Wear gloves when handling the product over long periods of time
- Do not eat, drink or smoke when using this product
- Take off contaminated clothing and wash before reuse
- 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 labeled containers

7.3 Specific End Uses:

Use as a rooting aid according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational exposure limits:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Occupational exposure limit value		Monitoring And observation processes	Peak limitation	Source
				Long term	Short term			
OEL (EU)	Silicone dioxide	231-545-4	7631-89-9	0.1mg/m ³	N/A	No data	No data	No data

8.1.2 Biological limit values:

Limit value type (country of origin)	Substance name	EC-No.	CAS-No.	Limit Value	Parameter	Test material	Test date	Source
OEL (EU)	Silicone dioxide	231-545-4	7631-89-9	No data	No data	No data	No data	No data

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8.1.3 Exposure limits at intended use: No data

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8.1.4 DNEL/PNEC-values:

Substance name: Silicone Dioxide

DNEL Worker:

DNEL type	Value	Remark
Acute – dermal, local effects	No data	No data
Long-term – dermal, local effects	No data	No data
Long-term – dermal, systemic effects	No data	No data
Acute – inhalation, local effects	No data	No data
Acute – inhalation, systemic effects	No data	No data
Long-term – inhalation, local effects	No data	No data
Long-term – inhalation, systemic effects	No data	No data

DNEL Consumer:

DNEL type	Value	Remark
Long-term – oral, systemic effects	No data	No data
Acute – dermal, local effects	No data	No data
Long-term – dermal, local effects	No data	No data
Long-term – dermal, systemic effects	No data	No data
Acute – inhalation, local effects	No data	No data
Acute – inhalation, systemic effects	No data	No data
Long-term – inhalation, local effects	No data	No data
Long-term – inhalation, systemic effects	No data	No data

PNEC

PNEC type	Value	Remark
PNEC aquatic, freshwater	No data	No data
PNEC aquatic, marine water	No data	No data
PNEC aquatic, intermittent release	No data	No data
PNEC sediment, freshwater	No data	No data
PNEC sediment, marine water	No data	No data
PNEC soil	No data	No data
PNEC sewage treatment plant	No data	No data
PNEC air	No data	No data
PNEC secondary poisoning	No data	No data

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8.1.5 Risk management measures according to used control banding approach

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT)

Task	Hazard band	Scale of use	Ability to become airborne	Control approach	Control guidance sheet
N/A					

8.2 Exposure Controls

8.2.1 Appropriate engineering controls:

No special ventilation requirements.

Avoid high dust concentration and provide ventilation where necessary

8.2.2 Personal protective equipment:

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

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

Respiratory Protection: Not necessary if room is well ventilated
Use suitable dust respirator if dust concentration is high (Filter P2)

8.2.3 Environmental exposure controls: No data

Consumer exposure control: No data

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, sandy powder

Physical state: Solid

Colour: Sandy brown

Odour: Characteristic

Odour threshold: None known

9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	No data	No data	No data	No data	No data	No data
Melting point/freezing point	No data	No data	No data	No data	No data	No data
Initial boiling point/boiling range	No data	No data	No data	No data	No data	No data
Flash point	No data	No data	No data	No data	No data	No data
Evaporation rate	No data	No data	No data	No data	No data	No data
Flammability (solid, gas)	No data	No data	No data	No data	No data	No data
Upper/lower flammability or explosive limits	No data	No data	No data	No data	No data	No data
Upper explosive limits	No data	No data	No data	No data	No data	No data
Lower explosive limits	No data	No data	No data	No data	No data	No data
Vapour pressure	No data	No data	No data	No data	No data	No data
Vapour density	No data	No data	No data	No data	No data	No data
Relative density	1.2kg/l	No data	No data	20°C	No data	No data
Solubility(ies)	No data	No data	No data	No data	No data	No data
Partition coefficient: n-octanol/water	No data	No data	No data	No data	No data	No data
Auto-ignition temperature	No data	No data	No data	No data	No data	No data
Decomposition temperature	No data	No data	No data	No data	No data	No data
Viscosity	No data	No data	No data	No data	No data	No data
Viscosity, dynamic	No data	No data	No data	No data	No data	No data
Viscosity, cinematic	No data	No data	No data	No data	No data	No data
Explosive properties	No data	No data	No data	No data	No data	No data

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Oxidising properties	No data	No data	No data	No data	No data	No data
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Physical hazards: None known

Flammable aerosols

Justification for data waiving:

Safety characteristics:

	Value	Result	Method	Remark
Content of flammable components				
Chemical heat of combustion				
Ignition distance				Testing is not required for foam aerosols.
Time equivalent				
Deflagration density				

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Maximum flame height				Testing is not required for spray aerosols.
Flame duration				

Assessment / Classification: Based on available data, the classification criteria are not met.

Flammable solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Burning rate	N/A		
Burning rate with wetted zone			
Moisture content			

Assessment / Classification: Based on available data, the classification criteria are not met.

Oxidising solids

Justification for data waiving:

Safety characteristics:

	Value	Method	Remark
Preliminary test	N/A		
Mean burning time of test mixture			
Mean burning time of reference mixture			

Assessment / Classification: Based on available data, the classification criteria are not met.

10. STABILITY AND REACTIVITY

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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

10.3 Hazardous Reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions To Avoid: Extremes of temperature

10.5 Incompatible Materials: Information not available

10.6 Hazardous Decomposition: Heating or fire can release toxic or irritant vapours and fumes

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity

Practical experience / human evidence: None

Animal data: None

Other information: The mixture is not toxic

Assessment / Classification: Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Practical experience / human evidence: None

Acid-/Alkali reserve (buffer capacity for mixtures with extreme pH values)

Acidic reserve [g NaOH/100 g product]: No data

Alkaline reserve [g H₂SO₄/100 g product]: No data

Animal data: None

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In-vitro skin test: No data

Other information: The mixture is not classified as skin irritant based on formulation components

Assessment / Classification: Based on available data, the classification criteria are not met.

Eye damage/irritation

Practical experience / human evidence: No data

Animal data: No data

In vitro eye test:

Other information: The mixture is not classified for eye damage based on formulation components

Assessment / Classification: Based on available data, the classification criteria are not met.

Sensitisation to the respiratory tract/skin

Sensitisation to the respiratory tract

Practical experience / human evidence: No data

Other information: The mixture is not classified as a sensitizer based on formulation components

Assessment / Classification: Based on available data, the classification criteria are not met.

Skin sensitisation

Practical experience / human evidence: No data

Animal data: No data

Other information: The mixture is not classified as a sensitizer based on formulation components

Assessment / Classification: Based on available data, the classification criteria are not met.

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CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Reproductive toxicity

Practical experience / human evidence: No data

Animal data

Adverse effects on sexual function and fertility: None

Adverse effects on developmental toxicity: None

Effects on or via lactation: None

Other information: The mixture is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard based on formulation components

Assessment / Classification: Based on available data, the classification criteria are not met.

Overall assessment on CMR properties: Based on available data, the classification criteria are not met.

Aspiration hazard

Practical experience / human evidence: No data available.

Experimental data: no data

Assessment / Classification: Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics:

Other information: None

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12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity

Acute (short-term) fish toxicity: No data

Chronic (long-term) fish toxicity: No data

Acute (short-term) toxicity to crustacea: No data

Chronic (long-term) toxicity to crustacea: No data

Acute (short-term) toxicity to algae and cyanobacteria: No data

Toxicity to other aquatic plants / organisms: No data

Toxicity to microorganisms: No data

Sediment toxicity: No data

Terrestrial toxicity: No data

Toxicity to soil macro-organisms except arthropods: No data

Toxicity to terrestrial arthropods: No data

Toxicity to terrestrial plants: No data

Toxicity to birds: No data

Assessment / Classification: Mixture not classified as harmful to the aquatic life

12.2 Persistence and degradability

Biodegradation: The organic component is biodegradable.

Abiotic Degradation: The organic component is biodegradable.

Assessment / Classification: Based on available data, the classification criteria are not met.

12.3 Bioaccumulative potential

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Bioconcentration factor (BCF)

Assessment / Classification: No information available on mixture

12.4 Mobility in soil

Assessment / Classification: No information available on mixture

12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: Information not available

Additional ecotoxicological information: Information not available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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

Waste codes / waste designations according to EWC / AVV: N/A

Packaging: Completely empty containers can be put in the bin or disposed of in compliance with applicable local regulations

Waste treatment options: No data

Other disposal recommendations: No data

Additional information: None

Contaminated Packaging: Empty remaining contents.

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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
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: None

15. REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and/or restrictions on use: This mixture is classified in accordance with Regulation 1272/2008.

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Other EU regulations: None

15.1.2 National regulations: None

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

16. OTHER INFORMATION

16.1 Indication of changes

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

16.3 Key literature references and sources for data: None available

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008
[CLP]: N/A

16.5 Relevant R-, 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

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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.