



Safety Data Sheet

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

Trade name: Gro-sure Vermiculite

Version: Revision date: 12.02.2018

Print date: 12.02.2018.

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

1.1 Product identifier Gro-Sure Vermiculite

1.2 Relevant identified uses Soil improver

1.3 Details of the supplier of the 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

Supplemental Hazard information:

Airborne respirable dust may be generated during handling and use. Dust contains crystalline silica. Prolonged and or massive inhalation of respirable crystalline silica may cause lung fibrosis, commonly referred to as silicosis.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Vermiculite (CAS 01318-00-9) containing less than 0.7 % respirable crystalline mica

This mixture does not contain ingredients classified as hazardous substances



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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.
Induce coughing

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.
Seek medical attention if particles are still stuck in eye

Ingestion: Rinse out mouth and then drink plenty of water
Do not induce vomiting

4.2 Most important symptoms and effects, both acute and delayed

None known

4.3 Indication of any immediate medical attention and special treatment needed

5. FIRE FIGHTING MEASURES

5.1 Extinguishing Media:

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

5.2 Specific hazards arising from the substance or mixture:

No hazardous thermal decomposition products

5.3 Advice for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Additional Information: None



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust

Ensure adequate ventilation and wear appropriate PPE if required

6.2 Environmental Precautions:

No special requirement.

Waste generated during application or spillage is not considered hazardous

6.3 Methods and Materials for Containment and Cleaning Up:

Avoid dry sweeping and use vacuum cleaning system to prevent airborne dust formation

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

7. HANDLING AND STORAGE

7.1 Handling:

- Prevent dust formation and inhalation
- Provide appropriate exhaust ventilation at places where airborne dust is generated
- Avoid contact with eyes and skin
- Wear suitable respiratory protective equipment in case of insufficient ventilation
- Do not eat, drink or smoke when handling this product
- Wash hands and observe good hygiene practice after handling this product

7.2 Storage:

- Keep product in original labeled containers
- Store packed products so as to prevent accidental bursting

7.3 Specific End Uses:

Use as an additive in growing media according to the instruction on the label

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

No ingredients with limit values that require monitoring at the workplace. Maintain personnel exposure limit for inhalable and respirable dust as per national regulations

8.1.1 Occupational exposure limits:

8.1.2 Biological limit values:



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8.1.3 Exposure limits at intended use:

8.1.4 DNEL/PNEC-values:

8.1.5 Risk management measures according to used control banding approach

8.2 Exposure Controls

8.2.1 Appropriate engineering controls: Avoid high dust concentration and provide ventilation where necessary to keep airborne levels below specified exposure limits

8.2.2 Personal protective equipment:

When selecting personal protective equipment, seek appropriate professional advice

Personal protective equipment should be certified to appropriate standards

Respiratory Protection: Use suitable dust respirator in case of prolonged exposure, if dust concentration is high or if a risk assessment indicates this is necessary. (Filter P3)

Hand Protection: Wear suitable gloves when handling the product over long periods, if person suffers from dermatitis or sensitive skin or if a risk assessment indicates this is necessary.

Eye Protection: Wear eye protection when a risk assessment indicates this is necessary to avoid exposure to dust.

Skin and Body Protection: Protective work clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: yellowish-gold lightweight solid

Physical state: solid

Colour: yellowish-gold

Odour: none

Odour threshold: none known



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9.2 Other information:

	Value	Concentration	Method	Temperature	Pressure	Remark
pH	6.5-7.5	100g/L	-	20 °C	-	-
Melting point/freezing point	1250-1350°C	-	-	-	-	-
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	80-250g/l	-	-	-	-	-
Solubility(ies)	-	-	-	-	-	-
Partition coefficient: n-octanol/water	-	-	-	-	-	-
Auto-ignition temperature	-	-	-	-	-	-
Decomposition temperature	-	-	-	-	-	-
Viscosity	-	-	-	-	-	-
Viscosity, dynamic	-	-	-	-	-	-
Viscosity, cinematic	-	-	-	-	-	-
Explosive properties	-	-	-	-	-	-
Oxidising properties	-	-	-	-	-	-

Physical hazards:

Flammable and spray aerosols: Testing is not required for foam and spray aerosols

Flammable and oxidising solids: no data available



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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
- 10.3 Possibility of hazardous reactions:** None known
- 10.4 Conditions to Avoid:** None in designated use
- 10.5 Incompatible Materials:** Materials that may be affected by dust
- 10.6 Hazardous decomposition products:** None known

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

11.1.1 Substances

Acute Toxicity: Product not classified for acute toxicity

Skin corrosion/ Irritation: The product is not classified as skin irritant

Eye Damage/Irritation: The product is mild irritant to eyes

Respiratory or Skin Sensitization: The product is not classified as a sensitizer. However, perlite may cause a mild irritation of the upper respiratory tract

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

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

Other information: none available



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12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Aquatic toxicity: Based on 96h bioassays the product is not toxic for *Vibrio fischeri*, *Artemia franciscana* and *Sparus Aurata*.
Based on field studies the product is not toxic for *Patella* sp and *Monodonta* sp

Sediment toxicity: N/A

Terrestrial toxicity: N/A

12.2 Persistence and Degradability: Not relevant for inorganic substances

12.3 Bioaccumulative Potential: Not relevant for inorganic substances

12.4 Mobility in Soil: Negligible

12.5 PBT and vPvB assessment: Not relevant for inorganic substances

12.6 Other adverse effects: No specific adverse effects are known

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Mix product with soil
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



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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:

This product is classified in accordance with Directive and Regulation 1272/2008.

15.1.1 EU regulations: as above

15.2 Chemical Safety Assessment: Exempted from a Chemical Safety Assessment



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16. OTHER INFORMATION

16.1 Indication of changes: none

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: unknown

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

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

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.