



SAFETY DATA SHEET

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

Product	Gro-Sure Vermiculite
Usage	Soil improver
Supplier	Westland Horticulture Ltd 14 Granville Industrial Estate Granville Road Dungannon County Tyrone BT70 1NJ
Email	customerservice@WestlandHorticulture.com
Emergency Tel	01480 443789 (UK)

2. HAZARDS IDENTIFICATION

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

Not classified

Classification of the Substance or Mixture According to Directive 67/548/EEC or Directive 1999/45/EC:

Not classified

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

Not applicable

Other Information: Airborne respirable dust may be generated during handling and use. Prolonged and or massive inhalation may cause irritation. Possible eye irritation from dust particles. No acute or chronic health effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Description Chemical class: Phyllosilicates. Vermiculite is the mineralogical name given to hydrated laminar magnesium-aluminium-iron silicates

This mixture does not contain ingredients classified as 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.
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. Harmless and non irritant
- 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
- Treatment (Medical Advice):** Information not available

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

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

Specific Hazards Arising From the Substance or Mixture:

No hazardous thermal decomposition products

Special Protective Equipment for Fire Fighters:

Wear full protective clothing and self-contained breathing apparatus.

Further Information: None

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid formation / breathing of dust

Ensure adequate ventilation and wear appropriate PPE if required: dust mask suitable for nuisance dust and eye protection

Environmental Precautions:

No special requirement.

Waste generated during application or spillage is not considered hazardous

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

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

Storage:

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

Specific End Uses:

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Exposure Controls

- Engineering Measures:** Avoid high dust concentration and provide ventilation where necessary to keep airborne levels below specified exposure limits
- 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:** Use suitable dust respirator in case of prolonged exposure, 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, 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:** Protecting work clothing



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Golden brown falkes
Odour: Odourless

Other Properties:

	Value	Temperature
pH (100g/l)	8.5 – 9.5	20 °C
Melting Point	1350 °C	
Density	60-150g/l	

No other relevant information available

10. STABILITY AND REACTIVITY

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

Hazardous Reactions: None known

Hazardous Decomposition: None known

Incompatible Materials: Materials that may be affected by dust

Conditions to Avoid: None in designated use

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Product not classified for acute toxicity

Skin Irritation: The product is not classified as skin irritant

Serious Eye Irritation: The product is mild irritant to eyes

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

Long Term Toxicity: The product is not classified as mutagenic, carcinogen, reproductive toxic or aspiration hazard

STOT- repeated exposure: Based on available data, the classification criteria are not met



12. ECOLOGICAL INFORMATION

Ecotoxicity: Evaluated at 50g/l extract

- **Toxicity To Frog:** EC50 Frog, *Xenopus laevis*, embryo lethality > 50 mg/l, 48h
- **Toxicity To Aquatic Invertebrates:** LC50 Median lethal concentration *Daphnia pulex*, > 50 mg/l, 48h
- **Toxicity To Aquatic Plants:** BAC: EC50 algae, *Selenastrum capricornutum* > 50 mg/l, 72h
- **Toxicity to bacteria:** EC50, *Pseudomonas putida*, > 50 mg/l, 6h

Persistence and Degradability: Not relevant for inorganic substances

Bioaccumulative Potential: Not relevant for inorganic substances

Mobility in Soil: Negligible

PBT and vPvB assessment: Not relevant for inorganic substances

Other Data: No specific adverse effects are known

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Land Transport (ADR /RID) Not dangerous goods

Maritime Transport (IMDG) Not dangerous goods

Air Transport (IATA-DGR) Not dangerous goods

Special precautions for user: None



15. REGULATORY INFORMATION

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

This product is classified in accordance with Directive 1999/45/EC and regulation 1272/2008.

Chemical Safety Assessment: Exempted from a Chemical Safety Assessment

16. OTHER INFORMATION

Recommended uses and restrictions: Follow the instructions

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

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.