SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier:

Expanded Perlite
CAS No. 93763-70-3

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

Animal Feeds
Back Fill For Firebacks.
Chimney Lining.
Cryogenic Insulation
Filtration
Fireplace Manufacture
High & Low Temperature Insulation.
Horticulture.
Lightweight Concretes and Screeds.
Fireproofing
Liquid Wastes Adsorbent: - Oils, Acids, Alkalis, Nuclear Residues & Toxic Chemicals
Loose Fill Insulation.
Pipe And Duct Insulation.
Plasters And Mortars
Refractory Applications.
Carrier for Fertilisers

1.3 Details of the supplier of the safety data sheet:

Westland Horticulture Ltd
Alconbury
Huntingdon
PE28 4HY

Sinclair Pro is a subsidiary of Westland Horticulture

Contact: The Safety Officer
Phone number: +44 (0)1480 443789
Website: http://www.gardenhealth.com/about-westland/contact

1.4 Emergency phone number

Phone number: 01480 443789

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)
This mixture is not classified as dangerous to humans or the environment

Classification according to 67/548/EEC (EU-DSD)
This mixture is not classified as dangerous to humans or the environment

Primary Hazard
None

2.2 Label Elements

There are no statutory labelling requirements under Directive 1999/45/EC, regulation 1272/2008 and regulation 453/2012.

2.3 Other Hazards

Mixture not classed as PBT or vPvB

3. COMPOSITION/INFORMATION ON INGREDIENTS
Expanded Perlite

Amorphous mineral rock comprising of sodium potassium aluminium silicates of variable composition – chemically inert. A heat processed inorganic, inert material that does not constitute any known health hazard and is non-combustible.

3.2 Mixtures
There are no ingredients present within the current knowledge of the supplier at applicable concentrations that are classified as hazardous to health or the environment.

4. FIRST AID MEASURES
4.1 Description of first aid measures

4.1.1 Inhalation
If symptoms arise remove from source of exposure to fresh air; seek medical attention if symptoms persist or develop.

4.1.2 Skin & Eye exposure
Skin: Drench immediately with water. Remove any contaminated clothing and launder before re-use. Obtain medical attention if symptoms develop or persist.
Eyes: Immediately rinse with clean water for 15 minutes. Obtain medical attention if symptoms develop or persist.

4.1.3 Ingestion
Do not induce vomiting. Wash out mouth with water and give water to drink. Obtain medical attention if symptoms develop or persist.

4.2 Most important symptoms and effects, both acute and delayed
Non-toxic. No evidence of causing pneumoconiosis or silicosis. Can cause irritation of throat if contact is prolonged. In some operations, may cause skin dryness or abrasion.

4.3 Indication of any immediate medical attention and special treatment needed.
Information not available

5. FIRE-FIGHTING MEASURES
5.1 Extinguishing media
Expanded Perlite is a non-combustible material, use an extinguishing agent suitable for the surrounding fire.

5.2 Special Hazards arising from the substance or mixture
Perlite is classified for reaction to fire as Class A1 in Decision 96/603/EC as amended by Decision 2000/605/EN. Will not give off noxious fumes. Fusion point 1280-1350Deg C. However, when used as an absorbent with flammable liquids, Perlite will not render the fluids non-flammable and therefore saturated absorbent Perlite containing flammable spillage should be removed and disposed of promptly.

5.3 Advice for fire-fighters
Isolate the scene by removing all persons from the fire location. Fire fighters should wear appropriate self-contained breathing apparatus (SCBA) with a full face piece operated in a positive pressure mode. Clothing for firefighters conforming to EN 469 should be worn.

6. ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.
Ensure adequate ventilation
Use personal protective equipment,
- Gloves
- Eye protection
- Suitable respirator if dust is generated during handling

6.2 Environmental Precautions
Do not allow to enter storm drains or water courses. If this product enters a water course or a sewer (including via contaminated soil & vegetation) in large quantities contact local water authority and inform the Environment Agency.

6.3 Methods and material for containment and cleaning up
Sweep spilled substances into covered containers for disposal or re-use: if appropriate moisten first to prevent dusting (extra personal protection P1 filter respirator for inert particles). Dispose of by a licenced waste disposal contractor.

6.4 Reference to other sections
See also section 8

7. HANDLING AND STORAGE

7.1 Precaution for safe handling
Use suitable handling procedures to minimise dust nuisance. If dust level is excessive, wear goggles and dust masks (to BS4275). Depending on application, can be dampened in bag before use to minimise dust. Waste material should be suitably contained for disposal to avoid wind-borne nuisance dust.

Wash Hands thoroughly after handling. Avoid breathing dust. Do not eat, drink or smoke when using this product.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool dry atmosphere, in original labelled containers. Refer to manufacturer for maximum safe stacking height. Keep away from heat sources, combustible materials and strong oxidising agents.

### 7.3 Specific end use(s)

No Information available

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**8. EXPOSURE CONTROLS.PERSONAL PROTECTION**

### 8.1 Control Parameters

Occupational Exposure Limit - LTEL: 10 mg/M3 (Inh), 1 mg/M3 (Resp). 8 hr TWA. (Inh = Inhalable Dust. Resp = Respirable dust)

Biological Exposure Limit: - Not applicable.

### 8.2 Exposure controls

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified.

Primary Hazard is considered to be dust. Use in a well-ventilated area and wear a dust mask if visible dust is being generated.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

**Typical Chemical Analysis:**

- SILICA (as SiO₂) 71 – 75 %
- ALUMINUM (as Al₂O₃) 12 – 18 %
- POTASSIUM (as K₂O) 2 – 5 %
- SODIUM (as Na₂O) 2 - 5 %
- CALCIUM (as CaO) 0.5 – 2 %
- IRON (as Fe₂O₃) 0.2 – 1.5 %
- MAGNESIUM (as MgO) 0.03 – 0.5%
- SULPHUR (as S₀₃) 0 – 0.2%
- FERROUS (as Fe₀) 0 – 0.1%
- CHROMIUM (as Cr₂O₃) 0 – 0.1%
- BARIUM (as BaO) 0 – 0.05%
- TOTAL CHLORIDES trace – 0.2%
- TOTAL SULPHATES NIL
- ORGANIC MATTER NIL

**Physical properties:**

- COLOUR White (when expanded)
- REFRACTIVE INDEX 1.5
- FREE MOISTURE (MAX) 0.5%
- pH OF WATER SLURRY 6.7 – 7.5
- BULK DENSITY (raw ore graded) 1000 – 1500kg/m3
- BULK DENSITY (loose weight) Expanded 35 – 120kg/m3
- PARTICLE SIZES AVAILABLE EXPANDED 75MICRON – 6MM
- SOFTENING POINT 890 – 1100 C
- FUSION POINT 1280 – 1350 C
- FIRE RESISTANCE NON COMBUSTIBLE
- SPECIFIC HEAT 0.2 CAL/G C (837J/KGK)
- THERMAL CONDUCTIVITY (AVE) 0.05W/M C
- SPECIFIC GRAVITY 2.2 – 2.4
- LOSS OF IGNITION 1.5 – 3.0 %
- REFRACTIVE INDEX 1.47

### 9.2 Other Information

No other relevant information available

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**10. STABILITY AND REACTIVITY**

### 10.1 Reactivity

No specific information available

### 10.2 Chemical Stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

No specific hazardous reactions known.
10.4 Conditions to avoid
“Material to avoid is quoted as being acids. It has been shown that prolonged contact with acids particularly at elevated temperatures does affect expanded Perlite, also direct contact with Ammonium Bifluoride and Hydrofluoric acids must be avoided, so this statement is technically correct. However for many years Perlite has been used without problem as an absorbent carrier for sucking up a wide range of dilute acids and other hazardous chemicals.

10.5 Incompatible materials
Acids” (see 10.4)

10.6 Hazardous decomposition products
Under normal conditions of storage and use hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
The mixture has not been assessed for toxicological effects, the mixture classification is given in section 2 based on individual component contents. Individual component hazards if any are given in section 3

Chronic Effects: None Known.

No toxic effect known including sensitisation, narcosis or carcinogenicity.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Mixture not classified as harmful to aquatic life.

12.2 Persistence and degradability
No specific information available

12.3 Bioaccumulative potential
No specific information available

12.4 Mobility in soil
No specific information available

12.5 Results of PBT and vPvB
Not classified

12.6 Other adverse effects
No specific information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods
Disposal method in accordance with all applicable national environment laws and regulations.

14. TRANSPORT INFORMATION

14.1 UN number: Product is unclassified for transport

14.2 UN proper shipping name: Product is unclassified for transport

14.3 Transport hazard Product is unclassified for transport

14.4 Packing group: Product is unclassified for transport

14.5 Environmental hazards: Product is unclassified for transport

14.6 Special precautions for user: No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
Applicable for Maritime bulk transport only. Check with carrier.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.
This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003,
Expanded Perlite


15.2 Chemical Safety Assessment
CSA not undertaken for this mixture

16. OTHER INFORMATION

SDS information:
This Safety data sheet is compiled using data submitted for raw materials and practical experience.

THE INFORMATION GIVEN HEREIN IS, TO THE BEST OF OUR KNOWLEDGE, CORRECT AND IS PRESENTED IN GOOD FAITH BUT NO WARRANTY, EXPRESSED OR IMPLIED IS GIVEN.

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