

Safety Data Sheet



PRODUCT NAME: Sunshine Extra Fine Vermiculite
Sunshine Fine Vermiculite
Sunshine Medium Vermiculite
Sunshine Coarse Vermiculite
Sunshine Extra Coarse Vermiculite
Sunshine Cavity Fill Vermiculite
Sunshine Mica Flakes
Sunshine Concentrate Ore

SDS # 4000

Date of Issue: May 13, 2015
Supersedes: New

1. Product and Company Identification

Product Name: Sunshine Extra fine Vermiculite, Sunshine Fine Vermiculite, Sunshine Medium Vermiculite, Sunshine Coarse Vermiculite, Sunshine Extra Coarse Vermiculite, Sunshine Cavity Fill Vermiculite, Sunshine Mica Flakes, Sunshine Concentrate Ore

Recommended Uses: End-use horticulture, Industrial

Restrictions on Uses: None

Manufacturer/Supplier

Sun Gro Horticulture Distribution Inc.
770 Silver Street
Agawam, MA 01001
1-800-732-8667

Distributed in the USA by

Sun Gro Horticulture Distribution Inc.
770 Silver Street
Agawam, MA 01001
1-800-732-8667

Distributed in Canada by

Sun Gro Horticulture Canada Ltd.
52130 RR 65, PO Box 189
Seba Beach, AB T0E 2B0 Canada
1-800-732-8667

For more information: www.sungro.com

For more customer information call:

Western Region: 1-888-797-6497
Eastern Region: 1-888-896-1222
Agawam: 1-800-732-8667

Central Region: 1-888-982-4500
Southeast Region: 1-800-683-7700

Emergency Telephone Number

For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident Call **CHEMTREC** Day or Night.

For shipments and products within the US and Canada: 1-800-424-9300

For shipments and products travelling outside of the US and Canada: + 1 703-527-3887

2. Hazards Identification

Classification of the mixture

Vermiculite is not specifically listed in the OSHA List of *Hazardous and Toxic Substances* (Hazard Communication Standard 29 CFR 1910.1200) but products are classified by ACGIH as a "Nuisance Dust" or "Particulates Not Otherwise Classified" (PNOC).

Label elements

Hazard pictograms	None
Signal word	None
Hazard Statements	None
Precautionary Statements	None
Other hazards	None

3. Composition/Information on Ingredients

Ingredients	CAS No.	EC No	Concentration
Vermiculite	1318-00-9	310-127-6	99-100%

4. First Aid Measures

Description of first aid measures

General information

In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person, person having convulsions, or a person with cramps.

In case of inhalation

Remove to fresh air. Prolonged exposure to dust may cause irritation to respiratory tract.

In case of skin contact

Non-irritant. If skin irritation occurs, get medical attention or advice.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists call a poison control center or a doctor.

In case of ingestion

If able, rinse mouth and drink plenty of water. Do not induce vomiting. Call a Poison Control Center or doctor if feeling unwell.

More important symptoms and effects, both acute and delayed

The following symptoms may occur:

In case of inhalation: Irritation to respiratory tract

In case of skin contact: Non-irritant

In case of eye contact: May cause redness or irritation

In case of ingestion: Ingestion of large amounts may cause gastrointestinal disturbances

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

5. Fire Fighting Measures

Extinguishing media:

Suitable extinguishing media: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood area with water.

Unsuitable material: None.

Specific hazards arising from the chemical

Non-combustible material

Thermal decomposition products:None

Protective equipment and precautions for firefighters

Keep upwind of fire. Wear full firefighting turn out gear (full Bunker gear) and respiratory protection (self-contained breathing apparatus (SCBA)).

6. Accidental Release Measures

Personal precautions

Provide adequate ventilation Wear personal protection equipment (Section 8).

Environmental precautions

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

Methods and material for containment and clean up

Take up mechanically, placing in appropriate containers for disposal or recovery. Avoid generating dust.

Unsuitable material for containment or taking up: None specified

Other information

None

7. Handling and Storage

Precautions for Safe Handling

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed to avoid dust generation

8. Exposure Controls/Personal Protection

Exposure Guidelines: Occupational exposure limits

	<u>Vermiculite</u>	<u>Quartz</u>
OSHA – PEL	5 mg/m ³ respirable	0.1 mg/m ³ respirable
ACGIH (2012 TLVs® and BEIs®)		
TWA	3 mg/m ³ respirable	0.025 mg/m ³ respirable

Derived No-Effect Level* (DNEL) suggested by manufacturer: Workers (Industrial/professional):

Vermiculite and quartz

DNEL Human, dermal, long term (repeated) not available

* (Derived No-Effect Level (DNEL) is the level of exposure to the substance above which humans should not be exposed)

Engineering controls

Use exhaust ventilation to keep airborne concentrations below exposure limits.

Personal Protective Equipment

Eye/face protection: Safety glasses

Skin protection: No specific requirement

Respiratory Protection: Wear respiratory protection, where airborne concentrations are expected to exceed exposure limits.

General Hygiene Considerations

Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

9. Physical and Chemical Properties

Appearance	Solid, granular or crystalline
Color	Tan to gray, light brown
Odor	Odorless
Odor Threshold	Not applicable
pH value	Neutral
Melting point/freezing range	1315°C
Boiling temperature/boiling range	Not applicable
Flash Point	Not applicable
Vaporization rate/Evaporation rate	No data available
Flammable Solids	Not flammable
Explosion limits (LEL, UEL)	Not applicable
Vapor Pressure	Not applicable
Vapor Density	Not applicable
Relative Density	55-130 g/l (3.4-8.5 lb/cf)
Solubility	Not soluble in water
Partition coefficient n-octanol/water	Not applicable
Auto Ignition temperature	Not applicable
Decomposition temperature	No data available
Viscosity	Not applicable

Other information

Explosive properties	Not explosive
Oxidizing properties	None

10. Stability and Reactivity

Reactivity

Material is stable under normal ambient conditions.

Chemical stability

Stable under normal storage and temperature conditions.

Possibility of hazardous reactions

None

Conditions to avoid

Dust generation

Incompatible materials

None

Hazardous decomposition products

None known

11. Toxicological Information

Likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the eyes. Ingestion of large amounts may cause gastrointestinal disturbances.

Toxicological effects from short and long term exposure

Acute toxicity:

Acute oral toxicity

No LD50 data available

Assessment/classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

Irritant and corrosive effects:

No data available

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

Respiratory or skin sensitization

No data available

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

Genetic effects: This product does not contain ingredients classified as germ cell mutagens.

Bacterial (Ames Test)

Negative

Chromosomal aberrations

Negative

Mutation in mammalian cells

Negative

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

Reproductive toxicity: Adverse effects on sexual function and fertility/developmental toxicity: OECD guideline 422

No data available

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

Specific target organ toxicity (single exposure)

The product does not contain relevant ingredients classified as Target Organ Toxicant.

Practical experience/human evidence

No relevant effect have been observed after single exposure.

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

Specific target organ toxicity (repeated exposure)

Organs affected

None

Effects

None

Guideline

OECD 422

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

Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard.

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

Carcinogenicity

International Agency for Research on Cancer (IARC) Not Listed

National Toxicology Program (NTP) Not Listed

29 CFR part 1910, subpart Z Not Listed

California Proposition 65 Not Listed

WHO (2003) Nitrate in drinking water Not applicable

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

Other Toxicological Information

None

12. Ecological Information

Ecotoxicity

Aquatic Toxicity

No data available

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

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects

None known

13. Disposal Considerations

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

Not considered hazardous waste according to the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

14. Transportation Information

US DOT (49CFR part 172)

UN No.	Not regulated
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

International Maritime Organization (IMDG Code)

UN No.	Not regulated
UN Proper Shipping Name	Not applicable
Hazard Class	Not applicable
Packing group	Not applicable
Marine pollutant	No
Hazard label(s)	Not applicable
Special marking	No
Special Provision	No

Air transport (ICAO-TI/IATA-DGR)

UN No.	Not regulated
UN Proper Shipping Name	Not applicable
Hazard class	Not applicable
Packing group	Not applicable
Hazard label(s)	Not applicable
Special marking	No

Special handling procedure

None

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

Not applicable

Other special precautions

None

15. Regulatory Information

US Federal

SARA Title III Rules

Section 311/312 Hazard Classes

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Release of Pressure	No
Reactive Hazard	No

Section 313 Toxic Chemicals

Ingredients not listed

Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances

Ingredients not listed

NFPA 704: National Fire Protection Association

Health	0
Fire	0
Reactivity	0
Special	None

US State Regulations

California Proposition 65	Vermiculite is not listed
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Chemical Inventories

United States TSCA	All ingredients are listed
Canada DSL	All ingredients are listed
European Union (EINECS)	All ingredients are listed
Japan (METI)	All ingredients are listed

16. Other Information

This SDS complies with 29 CFR part 1910 subpart Z (2012) and ANSI Standard Z400.1-2004

The information contained in this SDS is provided without warranty of any kind, express or implied. The information contained herein is made available solely for consideration, investigation, and verification by the original recipients hereof. Users should consider this information only as a supplement to other information gathered by or available to them. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials for the safety and health of employees, customers, and the environment. This hazard information is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable national, federal, state, provincial, and local laws and regulations regarding safety, occupational health, right to know, and environmental protection.