

Mother Earth Perlite

Safety Data Sheet

1. Product and Company Identification

Product Name: Mother Earth Perlite Coarse, #3 & #4

Recommended Uses: Versatile mineral used and not limited to, horticulture.

Supplier

Hawthorne Gardening Company

3204 NW 38th Circle

Vancouver, WA. 98660

Toll Free: 888.478.6544

Local: 360.883.8846

2. Hazards identification

Classification of the mixture

Perlite 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
Precautionary Statements	None
Other hazards	None

3. Composition/Information on Ingredients

Ingredients	CAS No.	EC No.	Concentration
Perlite	93763-70-3	none	99-100%
Quartz	14808-60-7	238-878-4	0-1%
<i>Respirable crystalline silica quartz below detectable levels.</i>			

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 doctor.

In case of ingestion

If able, rinse mouth and drink plenty of water. Do not induce vomiting. Call a Poison Control Center or a 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 means 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 entering into surface water or drains. Ensure waste is collected and contained.

Methods and material for containment and cleanup

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

OSHA-PEL	15 mg/m ³ respirable
ACGIH (2012 TLVs [®] and BEIs [®])	10 mg/m ³ respirable

Derived No-Effect Level[®] (DNEL) suggested by manufacturer: Workers (Industrial/professional):
Perlite 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	White, Gray

Odor	Odorless
Bulk density	2-10 LBS per cubic foot
pH value	6.5-7
Melting point	2100 ^o - 2300 ^o F
Freezing range	No data available
Boiling temperature/ boiling range	Not applicable
Flash point	Not applicable
Vaporization rate/Evaporation rate	No data available
Flammable Solids	Not flammable
Explosion limits	Not applicable
Vapor Pressure/Density	Not applicable
Solubility	Not soluble in water
Decomposition temperature	No data available
<u>Other Information</u>	
Explosive properties	Not explosive
Oxidizing properties	None

10. **Stability and Reactivity**

Stability Stable under normal use and conditions

Reactivity Hazard Hydrofluoric Acid

Hazardous Decomposition Product: Will react with hydrofluoric acid to produce toxic silicon tetrafluoride

Conditions to avoid: Dust generation

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 irritating 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 oral toxicity

No LD50 data available

Assessment/classification: Based on available data for the ingredients of the mixture, 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 has 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

Effects

Guideline

None

None

OECD 422

Aspiration hazard

Physiochemical 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 are not met

Other Toxicological Information: None

12. Ecological information

Exotoxicity

Acute Toxicity: No data available

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

Persistence and degradability: No data available

Bioaccumulation: 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

Proper name: Expanded Perlite

DOT: Not regulated

TDG/IMO/ICAO Not regulated

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 Not listed

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, provisional, and local laws and regulations regarding safety, occupational health, right to know, and environmental protection.

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