Safety Data Sheet (SDS)

Green Grove Soil - Organic Volcanic Rock Granules | Combined SDS for 0-4 mm and 10-25 mm grades

Manufacturer	Green Grove Soil Fertilizer Factory	**Country of Origin**	Saudi Arabia - Medina
Contact	info@greengrovesoil.com	**Revision Date**	2026-04-13
Product Scope	0-4 mm and 10-25 mm grades	**Document Type**	Safety Data Sheet (SDS)

Section 1. Identification

Product name	Green Grove Soil - Organic Volcanic Rock Granules
Product grades covered	0-4 mm and 10-25 mm
Recommended use	Porous volcanic mineral growing medium and root-zone management material for horticulture, potting mixes, soil conditioning, media-based hydroponics, aquaponics, and landscape applications, depending on grade.
Restrictions on use	Not for human or animal consumption. Not for pharmaceutical, food, or feed use.

Section 2. Hazard(s) Identification

GHS classification: Not classified as hazardous as supplied in solid granular form.

- Dust generated during handling, transfer, crushing, or other dust-producing operations may cause mechanical irritation to the eyes, skin, and respiratory tract.
- Respirable airborne dust generated from the product may contain crystalline silica (quartz). Prolonged or repeated inhalation of respirable crystalline silica can cause lung damage and may increase cancer risk.
- Avoid generating dust. Apply engineering controls and suitable personal protective equipment where dust may be produced.

Section 3. Composition / Information on Ingredients

Natural volcanic mineral granules. Composition may vary naturally from lot to lot because the product is mineral-derived.

Primary material	100% natural volcanic mineral granules
Main mineral oxides reported in product analysis	Silicon dioxide (SiO_2), calcium oxide (CaO), magnesium oxide (MgO), potassium oxide (K_2O), and sodium oxide (Na_2O).
Dust note	Respirable dust generated from the product may contain crystalline silica (quartz).

Section 4. First-Aid Measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if symptoms persist, worsen, or if significant dust exposure occurred.
Skin contact	Wash with soap and water. Seek medical advice if irritation develops or persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse mouth with water. Product is not intended for ingestion. Seek medical advice if discomfort occurs.

Section 5. Fire-Fighting Measures

- Non-combustible / non-flammable mineral product.
- Use extinguishing media appropriate for the surrounding fire.
- No known hazardous combustion products under normal storage and handling conditions.

Section 6. Accidental Release Measures

- Avoid creating airborne dust during cleanup.
- Collect by sweeping carefully, vacuuming with suitable dust control, or using wet methods where appropriate.
- Place recovered material in a suitable container for reuse or disposal in accordance with local regulations.

Section 7. Handling and Storage

- Handle in a manner that minimizes dust generation.
- For 10-25 mm used in hydroponic or aquaponic systems, wash thoroughly before operation. For 0-4 mm, light pre-moistening before mixing may help reduce dust.
- Store in a dry, well-ventilated area away from direct moisture. Keep packaging closed when not in use.
- Observe good industrial hygiene practices. Wash hands after handling and before eating, drinking, or smoking.

Section 8. Exposure Controls / Personal Protection

Occupational exposure limits should be selected according to the dust actually generated in the workplace and the applicable jurisdiction.

Respirable crystalline silica (OSHA, 29 CFR 1910.1053)	PEL: 50 µg/m^3 as an 8-hour TWA. Action level: 25 µg/m^3 as an 8-hour TWA.
Inert or nuisance dust / PNOR (OSHA Table Z-3)	Respirable fraction: 5 mg/m^3. Total dust: 15 mg/m^3.
Engineering controls	Use local exhaust ventilation, enclosed transfer points, or wet methods where feasible to minimize airborne dust.
Respiratory protection	When dust cannot be adequately controlled, use a properly selected respirator appropriate to the measured or expected exposure. Use NIOSH-approved particulate respiratory protection where required.
Eye protection	Safety glasses or goggles are recommended where dust exposure may occur.

Skin protection	Gloves are recommended for prolonged handling or where repeated contact may cause dryness or irritation.

Section 9. Physical and Chemical Properties

Property	0-4 mm	10-25 mm
Appearance	Gray to black porous granules / fine grade	Gray to black porous granules / coarse grade
Odor	Odorless	Odorless
pH	7.0	7.0
Bulk density	0.9 g/cm^3	0.7 g/cm^3
Moisture content	< 0.6%	< 0.6%
Dry matter	99.4%	99.4%
Water solubility	Insoluble	Insoluble

Section 10. Stability and Reactivity

- Stable under normal conditions of storage and use.
- No known hazardous polymerization or hazardous reaction under normal conditions.
- No special incompatibilities are known for the product as supplied.

Section 11. Toxicological Information

- Acute effects: Dust may cause mechanical irritation to the eyes, skin, and respiratory tract.
- Chronic inhalation hazard: Prolonged or repeated inhalation of respirable crystalline silica-containing dust may cause silicosis and other lung effects.
- Respirable crystalline silica is associated with increased lung cancer risk by inhalation and may also be linked to kidney and immune system effects.

Section 12. Ecological Information

- Natural mineral product. Not expected to pose a significant environmental hazard in the form supplied.
- Avoid unnecessary release of dust to air and prevent large accumulations in drains or waterways during handling.

Section 13. Disposal Considerations

- Reuse where technically suitable and clean.
- Dispose of unused or contaminated material in accordance with local, regional, and national regulations.
- As supplied, the product is generally managed as non-hazardous mineral waste unless contaminated by other materials.

Section 14. Transport Information

- Not regulated as dangerous goods for transport in the form supplied under typical road, sea, or air transport frameworks.
- Transport in closed packaging to minimize dust release and moisture uptake.

Section 15. Regulatory Information

- As supplied, the product is not classified as hazardous under GHS for routine hazard communication as a solid granular material.
- Where workplace activities generate respirable crystalline silica dust, applicable occupational exposure, hazard communication, training, and control requirements must be followed.

Section 16. Other Information

0-4 mm is the finer grade for medium building and balanced moisture management; 10-25 mm is the coarser grade for higher aeration, faster drainage, media beds, and top dressing.

The information in this SDS is believed to be accurate as of the revision date. Because the product is a naturally occurring mineral material, composition can vary within normal geological limits. Users are responsible for determining suitability for their application and for compliance with applicable regulations.

Green Grove Soil