

1. Identification of the substance/mixture and of the company/undertaking

• 1.1 Product identifier:

- Trade name: Microbe Shot
- Product category: Soil amendment / Mycorrhizal inoculant

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

- Use of the substance/mixture: Soil amendment to increase growth and yield, stabilize soil, and reduce transplant shock.
- Sector of use: Agriculture, horticulture, landscaping.

• 1.3 Details of the supplier of the safety data sheet:

- Manufacturer/Supplier: CO2 Products Oy, Ahlaistentie 686, 29700 Pori, Finland.
- Responsible person: Jaakko Rautio, +358 44 235 5846, jaakko@blomgrow.com

• 1.4 Emergency telephone number:

- Emergency contact: +358 0800 147 111 (Poison Control Center).

2. Hazards identification

• 2.1 Classification of the substance or mixture:

- Classification according to Regulation (EC) No 1272/2008 [CLP]: The product is not classified as hazardous.
- Note: Fine dust may cause mechanical irritation to the respiratory tract, skin, and eyes.
- The product is free from chemicals and toxic substances.

• 2.2 Label elements:

- Hazard pictograms/Signal word: Not required.
- Precautionary statements (recommended):
 - P102 Keep out of reach of children.
 - P260 Do not breathe dust.
 - P280 Wear protective gloves/respiratory protection in dusty conditions.

• 2.3 Other hazards:

- The product contains natural micro-organisms (mycorrhizal spores).
- Dust may form an explosive mixture with air if concentrations are extremely high in a confined space.

3. Composition/information on ingredients

• 3.1 Mixtures:

- Chemical characterisation: Mixture of mycorrhizal fungi and a carrier material.
- Ingredients:
 - Carrier (powder): > 95%.
 - Beneficial Microbes (Mycorrhizal spores): < 5% (Total spore count: 5000 spores/gram).
- The product does not contain PBT or vPvB substances.

4. First aid measures

• 4.1 Description of first aid measures:

- After inhalation: Move the exposed person to fresh air. If symptoms persist, seek medical attention.
- After skin contact: Wash with soap and water. If irritation occurs, seek medical attention.
- After eye contact: Rinse eyes cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing to remove particles.
- After swallowing: Rinse mouth with water. Drink water. Contact a doctor if nausea or discomfort occurs.

- **4.2 Most important symptoms and effects:**

- Dust may cause temporary mechanical irritation to eyes, skin, or respiratory tract.

5. Firefighting measures

- **5.1 Extinguishing media:**

- Suitable extinguishing agents: Water spray, foam, carbon dioxide (CO₂), dry powder.

- **5.2 Special hazards arising from the substance or mixture:**

- In case of fire, carbon monoxide (CO) and carbon dioxide (CO₂) may be formed.

- **5.3 Advice for firefighters:**

- Protective equipment: Wear self-contained breathing apparatus in smoky conditions.

6. Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**

- Avoid dust formation. Do not breathe dust. Wear personal protective equipment (see section 8).

- **6.2 Environmental precautions:**

- No special environmental risks. Prevent large quantities from entering drains to avoid clogging.

- **6.3 Methods and material for containment and cleaning up:**

- Collect mechanically (e.g., by sweeping or vacuuming). Avoid raising dust.

7. Handling and storage

- **7.1 Precautions for safe handling:**

- Ensure adequate ventilation. Avoid breathing dust. Wash hands after handling.

- **7.2 Conditions for safe storage, including any incompatibilities:**

- Storage: Store in a dry place.
- Shelf life: Maintains activity for over a year under recommended conditions.
- Packaging: Keep the package tightly closed to avoid moisture absorption.

8. Exposure controls/personal protection

- **8.1 Control parameters:**

- Occupational exposure limits.

- **8.2 Exposure controls:**

- Respiratory protection: Wear a respirator (Class P2/P3) if dust formation is heavy.
- Hand protection: Wear protective gloves to protect against mechanical abrasion.
- Eye protection: Tight-fitting safety goggles if there is a risk of dust generation.

9. Physical and chemical properties

- **9.1 Information on basic physical and chemical properties:**

- Appearance: Solid, powder.
- Colour: Brownish-black.
- Odour: Odourless or earthy.
- Moisture content: 8-10%.
- Solubility: Insoluble in water.

10. Stability and reactivity

- 10.1 Reactivity: Non-reactive under normal conditions.
- 10.2 Chemical stability: Stable under recommended storage conditions.
- 10.3 Conditions to avoid: Moisture (to prevent clumping), strong oxidizing agents, open flames.

11. Toxicological information**11.1 Information on toxicological effects:**

- Acute toxicity: Not classified as harmful.
- Skin/Eye irritation: Mechanical abrasion or irritation possible from dust.
- Human/Animal safety: Does not harm humans, animals, or the environment.

12. Ecological information

- 12.1 Toxicity: No known adverse effects on aquatic organisms.
- 12.3 Bioaccumulative potential: Not expected to bioaccumulate.

13. Disposal considerations**13.1 Waste treatment methods:**

- Product: Can be disposed of by composting or with general waste according to local regulations.
- Packaging: Empty packaging can be recycled as glass and cardboard.

14. Transport information

- 14.1 UN-Number: Not regulated.

15. Regulatory information**15.1 Safety, health and environmental regulations:**

- REACH: The product is exempt from REACH registration or tonnage is below threshold⁶⁰.
- Complies with national fertilizer legislation.

16. Other information

- This information is based on our present knowledge and shall not establish a legally valid contractual relationship.
- Contact: Jaakko Rautio, +358442355846, jaakko@blomgrow.com