

**Section I- Product and Company Identification**

Product Name: Biochar Pro Garden Mix™

**Product Description: Biochar + Compost + Mycorrhizae | SKU: 4236 (4 quart bag)**

Recommended Use: Soil Additive

|                                                                                                               |                                                                                                                                     |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Manufacturer<br>Wakefield Biochar<br>1826 Clay Road<br>Valdosta, Ga 31601<br>Email: info@wakefieldbiochar.com | Customer Service: (229) 278-2488<br>Monday- Friday 8am-5pm EST<br><br>Emergency Contact:<br>National Poison Control: 1-800-222-1222 |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|

**Section II- Hazard Identification****Classification of the substance or mixture:**

- The product is not classified as hazardous under OSHA HCS 29 CFR 1910.1200 or the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**GHS label elements:**

- Pictogram: None
- Hazard Statements: None
- Precautionary Statements: None

**Hazards not otherwise classified:**

- Exposure to biochar, compost, and microbial dust may cause skin, eye, or respiratory irritation in sensitive individuals.
- Individuals with asthma, bronchitis, allergies, or other respiratory sensitivities may need to avoid exposure to carbon, compost, or microbial dust.
- Fine dust dispersed in air may present a combustible dust hazard if dust accumulates near ignition sources.

**Section III - Composition/Information on Ingredients**

| Ingredients                    | Concentration | CAS Number |
|--------------------------------|---------------|------------|
| Biochar (Wood-Based Carbon)    | 50.0%         | 16291-96-6 |
| Plant-Based/Wood-Based Compost | 49.9%         | NA741      |
| Mycorrhizae                    | 0.1%          | N/A        |

**Mycorrhizae detail:**

- Rhizophagus intraradices: 135 propagules/quart.

**Section IV: First-Aid Measures****Description of necessary first-aid measures:**

- Inhalation: Move to fresh air. If symptoms persist, such as wheezing or breathing difficulty, seek medical attention.
- Skin Contact: Wash thoroughly with soap and water. If rash or persistent irritation occurs, seek medical advice.
- Eye Contact: Flush with water to remove dust particles. If irritation persists, seek medical attention.
- Ingestion: Not considered a route of exposure. If ingested, seek medical advice.

**Most important symptoms/effects, acute and delayed:**

- Slight irritation to the skin, eyes, or respiratory tract if dust is generated. Microbial components may cause allergenic responses in sensitive individuals.

**Indication of immediate medical attention and special treatment needed:**

- See Ingestion.

**Section V: Fire-Fighting Measures****Suitable extinguishing media:**

- Water spray, fog, foam, or dry chemical.

**Specific hazards arising from the chemical:**

- Product may be flammable near direct flame or elevated temperatures. Fine dust dispersed in air may present a combustible dust hazard.
- In a fire, it may produce carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), and other combustion products.

**Special protective equipment and precautions for fire-fighters:**

- Wear self-contained breathing apparatus (SCBA) and full protective gear.

**Section VI: Accidental Release Measures****Personal precautions, protective equipment, and emergency procedures:**

- Personal Precautions: Avoid generating dust. Use gloves and respiratory protection if dust levels are excessive.
- Emergency Procedures: None required.

**Environmental precautions:**

- Avoid runoff into waterways.

**Methods and materials for containment and cleaning up:**

- Sweep up or shovel and place into a container for reuse or disposal. Use a HEPA-filtered vacuum or wet methods where practical to minimize airborne dust and microbial spore release.

**Section VII: Handling and Storage****Precautions for safe handling:**

- Avoid generating dust.
- Ensure adequate ventilation, especially if the material is handled in an enclosed space.
- Keep away from open flames, sparks, and ignition sources when dust may be generated.
- Wash hands after handling.

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

- Store in a cool, dry, well-ventilated area.
- Keep covered or in original packaging to minimize dust generation.
- Keep away from strong oxidizing agents and ignition sources.

**Section VIII: Exposure Controls/ Personal Protection****Control parameters:**

- Occupational Exposure Limits: Not established for biochar, compost, or mycorrhizae.
- Recommended exposure limits:
- Particulates Not Otherwise Classified (PNOC):
- OSHA PEL: 15 mg/m<sup>3</sup> (total dust); 5 mg/m<sup>3</sup> (respirable fraction)
- ACGIH TLV: 10 mg/m<sup>3</sup> (inhalable particles); 3 mg/m<sup>3</sup> (respirable particles)

**Appropriate engineering controls:**

- Use general or local exhaust ventilation to control airborne dust.

**Individual protection measures, such as personal protective equipment (PPE):**

- Eye/Face Protection: Safety glasses with side shields.
- Skin Protection: Gloves are recommended to minimize skin contact with biochar, compost, and microbial components.
- Respiratory Protection: Use a NIOSH/OSHA-approved P100 particulate respirator where dust levels may exceed applicable exposure limits.

**Section IX: Physical and Chemical Properties**

- Physical state: Solid blend.
- Appearance: Dark biochar and compost blend.
- Odor: Earthy.
- pH: Not established for finished blend.
- Melting point/freezing point: Not applicable.
- Initial boiling point and boiling range: Not applicable.
- Flash point: Not applicable.
- Evaporation rate: Not applicable.
- Flammability (solid, gas): May be flammable near direct flame or elevated temperatures; fine airborne dust may be combustible.
- Upper/lower flammability or explosive limits: Not applicable.
- Vapor pressure: Not applicable.
- Vapor density: Not applicable.
- Relative density / bulk density: Not established.
- Solubility: Insoluble in water.
- Partition coefficient: n-octanol/water: Not applicable.
- Auto-ignition temperature: Not established.
- Decomposition temperature: Not applicable.
- Viscosity: Not applicable.

**Section X: Stability and Reactivity****Reactivity:**

- Contact with strong oxidizers may result in fire.

**Chemical Stability:**

- Stable under recommended storage and handling conditions.

**Possibility of hazardous reactions:**

- None known.

**Conditions to avoid:**

- Incompatible materials, combustible materials, sparks, heat, flame, and conditions that generate excessive dust.

**Incompatible materials:**

- Strong oxidizing agents.

**Hazardous decomposition products:**

- None under normal use. In a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) may be produced.

**Section XI: Toxicological Information**

- Acute Toxicity: Not classified as toxic.
- Skin corrosion/irritation: May cause slight skin irritation in sensitive individuals.
- Serious eye damage/irritation: May cause slight eye irritation.
- Respiratory or skin sensitization: Microbial dust may cause allergic reactions in sensitive individuals.
- Germ cell mutagenicity: Not mutagenic.
- Carcinogenicity: Not a carcinogen.
- Reproductive toxicity: Not a reproductive toxin.
- STOT-single exposure: May cause respiratory irritation if dust is inhaled.
- STOT-repeated exposure: Not expected to cause organ damage.
- Aspiration hazard: Not an aspiration hazard.

**Section XII: Ecological Information**

- Ecotoxicity: The product is not considered to be ecotoxic.
- Persistence and degradability: Organic compost components are biodegradable; biochar is persistent in soil.
- Bioaccumulative potential: Does not bioaccumulate.
- Mobility in soil: Low mobility.
- Mycorrhizae may influence local soil microbiomes if released in large quantities. There are no known significant negative environmental impacts, but careful handling is recommended to prevent unintended microbial release.

**Section XIII: Disposal Considerations****Disposal Methods**

- Dispose of in accordance with local, state, and federal regulations.
- It can often be used as a soil amendment or disposed of in a landfill.

**Section XIV: Transportation Information**

- UN number: Not regulated for transport.
- UN proper shipping name: Not applicable.
- Transport hazard class(es): Not applicable.
- Packing group: Not applicable.
- Environmental hazards: Not applicable.
- Always ensure the load is covered to prevent dust loss. Wear proper PPE when tipping or unloading. Biochar is hygroscopic and can absorb liquids and gases.
- Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable.

**Section XV: Regulatory Information:**

No additional information is available at this time.

**Section XVI: Other Information**

- SDS Creation Date: 8/10/26
- Revision Date: 8/10/26
- Revision: 00
- Disclaimer: The information provided in this SDS is believed to be accurate and represents the best information currently available. The user is responsible for determining the suitability of the information for their particular application.



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