

Section I- Product and Company Identification

Product Name: Biochar AG™

Product Description: Agricultural Grade Biochar | SKU: 4250 (2 cubic yard super sack)

Recommended Use: Soil Additive

Manufacturer Wakefield Biochar 1826 Clay Road Valdosta, Ga 31601 Email: info@wakefieldbiochar.com	Customer Service: (229) 278-2488 Monday- Friday 8am-5pm EST Emergency Contact: 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 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:

- The product may cause respiratory irritation if allowed to dry out and handled in a way that generates airborne dust.
- Damp biochar is not readily combustible in bulk form; however, dried airborne dust may present a combustible dust hazard if dust accumulates near ignition sources.
- Biochar may absorb gases and liquids, potentially leading to the evolution of heat and the risk of spontaneous combustion if improperly stored.

Section III - Composition/Information on Ingredients

Ingredients	Concentration	CAS Number
Biochar (Wood-Based Carbon)	40-50wt%	16291-96-6
Moisture (Water)	50-60wt%	7732-18-5

- Composition is shown on an as-shipped wet-weight basis. Product specification sheets may report biochar composition on a dry basis.

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

- Inhalation: Move to fresh air. If symptoms persist, seek medical attention.
- Skin Contact: Wash with soap and water.
- Eye Contact: Rinse with plenty of water for up to 15 minutes. 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 eyes or respiratory tract if dust is generated.

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:

- Damp biochar is not readily combustible in bulk form. However, dried airborne dust may present a combustible dust hazard.
- In a fire, it may produce carbon monoxide (CO), carbon dioxide (CO₂), 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 if the product is allowed to dry out. 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 where practical to minimize airborne dust.

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 retain moisture and 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.
- Recommended exposure limits:
- Particulates Not Otherwise Classified (PNOC):
- OSHA PEL: 15 mg/m³ (total dust); 5 mg/m³ (respirable fraction)
- ACGIH TLV: 10 mg/m³ (inhalable particles); 3 mg/m³ (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.
- Skin Protection: Gloves.
- Respiratory Protection: Use a NIOSH-approved particulate respirator where dust levels may exceed applicable exposure limits.

Section IX: Physical and Chemical Properties

- Appearance: Black, crumbly, porous solid with high moisture content.
- Particle size distribution: <1 mm: 75%; <2 mm: 90%; >2 mm: 5%.
- Moisture: 50-60% (time of analysis).
- Odor: Earthy or slightly smoky.

- pH: 8.5-10.5, typically alkaline.
- 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): Not readily combustible in damp bulk form; dried 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: 10-15 lb/ft³ (270-405 lb/yd³).
- Solubility: Insoluble in water.
- Organic carbon (dry): 50-65%.
- Total ash (dry): 30-45%.
- Surface area (correlation): 200-400 m²/g.
- Electrical conductivity: 0.2-1.5 dS/m.
- Partition coefficient: n-octanol/water: Not applicable.
- Auto-ignition temperature: >400°C (when dry).
- Decomposition temperature: Not applicable.
- Viscosity: Not applicable.

Section X: Stability and Reactivity

Reactivity:

- Biochar can react with oxidizing agents when dry.
- Spontaneous combustion is a potential hazard if biochar is improperly stored and allowed to dry out.

Chemical Stability:

- Stable under recommended storage and handling conditions.

Possibility of hazardous reactions:

- None known.

Conditions to avoid:

- Drying out, dust generation, ignition sources, and storage conditions that allow heat buildup.

Incompatible materials:

- Strong oxidizing agents.

Hazardous decomposition products:

- None under normal use. In a fire, carbon monoxide (CO) and carbon dioxide (CO₂) may be produced.

Section XI: Toxicological Information

- Acute Toxicity: Not classified as toxic.
- Skin corrosion/irritation: Not a skin irritant.
- Serious eye damage/irritation: May cause slight eye irritation.
- Respiratory or skin sensitization: Not a sensitizer.
- 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: Biochar is not considered to be ecotoxic.

- Persistence and degradability: Non-biodegradable.
- Bioaccumulative potential: Does not bioaccumulate.
- Mobility in soil: Low mobility.

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.
- 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.



Thomas W. Marrero, PhD
President, Wakefield Biochar