

SAFETY DATA SHEET (SDS)

ISO & OSHA HazCom 2012 Standard Compliant

SECTION 1: IDENTIFICATION

- **Product Name:** Bourbon County Biochar
 - **Synonyms:** Char, Carbonaceous Soil Amendment, Biomass-derived Carbon, Pyrolyzed Wood Charcoal.
 - **Recommended Use:** Agricultural soil amendment, stormwater filtration media, compost enhancer.
 - **Restrictions on Use:** None known. Do not use as a fuel source or food additive unless stated.
 - **Manufacturer/Supplier:**
Bourbon County Biochar
 - **Emergency Telephone Number:** Check with your designated local provider or insert your standard company line here.
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SECTION 2: HAZARD(S) IDENTIFICATION

- **GHS Classification:** Combustible Dust (Category 1), Eye Irritation (Category 2B - Mild Irritant), Specific Target Organ Toxicity – Single Exposure (Category 3 - Respiratory Irritation).
 - **Signal Word:** **WARNING**
 - **Hazard Statements:** May form combustible dust concentrations in air, causes eye irritation, may cause respiratory irritation.
 - **Precautionary Statements:** P261 Avoid breathing dust, P264 Wash thoroughly after handling, P271 Use only outdoors/well-ventilated area, P280 Wear protective equipment. P305+P351+P338 Rinse eyes cautiously; P337+P313 Get medical advice if irritation persists; P304+P340 If inhaled, remove to fresh air. Store in a dry place.
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SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component / Ingredient	CAS Number	Weight %
Organic Carbon (Biomass Pyrolysis Product)	7440-44-0 / 16291-96-6	86.0 % (Dry Basis)
Water (Moisture)	7732-18-5	24.5 % (As Analyzed)
Ash (Mineral Oxides)	N/A	6.9 %

Note: Heavy metal levels (including Arsenic, Cadmium, Lead, and Mercury) were tested and determined to be below reporting and hazardous regulation limits.

SECTION 4: FIRST-AID MEASURES

- **Inhalation:** Move to fresh air, seek medical attention if irritation persists.
- **Skin Contact:** Wash with soap and water; seek medical care if irritation develops.
- **Eye Contact:** Flush eyes with water for 15+ minutes, remove contact lenses, seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth, do not induce vomiting.
- **Symptoms:** Scratchy throat, coughing, mechanical eye irritation.

SECTION 5: FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Water spray (flooding), ABC dry chemical, carbon dioxide.
- **Unsuitable Media:** High-pressure water jets.
- **Hazards:** Fine dust can create explosion hazards in air; material may smolder.
- **Protection:** Wear self-contained breathing apparatus (SCBA).

SECTION 6: ACCIDENTAL RELEASE MEASURES

- **Precautions:** Use N95 mask, safety glasses, and gloves. Prevent large-scale environmental runoff.

- **Clean-up:** Dampen material, use HEPA-filtered vacuum or shovel to collect.
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SECTION 7: HANDLING AND STORAGE

- **Handling:** Avoid creating dust, work in well-ventilated areas, maintain >20% moisture for dust suppression.
 - **Storage:** Store cool, dry, and closed, away from strong oxidizers.
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Limits:** OSHA PEL 15mg/m³ (Total), 5mg/m³ (Respirable); ACGIH 10mg/m³ (Inhalable).
 - **Engineering:** Local exhaust recommended.
 - **PPE:** N95/P100 respirator, safety glasses, gloves.
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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- **Appearance:** Fine black granules/powder
 - **Odor:** Odorless to slight smoky aroma
 - **pH:** 8.30 (1:20 w/w)
 - **Melting/Boiling Point:** N/A (Decomposes)
 - **Flammability:** Combustible Dust
 - **Bulk Density:** 19.1 lb/cu ft
 - **Moisture Content:** 24.5%
 - **Solubility:** Insoluble in water
 - **Surface Area:** 347 m²/g dry
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SECTION 10: STABILITY AND REACTIVITY

- **Stability/Reactivity:** Stable under normal conditions (H:C ratio 0.31).
- **Avoid:** Open flames, static electricity, dense dust clouds.
- **Materials:** Strong oxidizers.

- **Decomposition:** Carbon oxides (CO, CO₂).
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SECTION 11: TOXICOLOGICAL INFORMATION

- **Routes:** Inhalation, eye, skin contact.
 - **Acute Toxicity:** Not expected; non-toxic.
 - **Irritation:** Mechanical eye irritation; nasal/respiratory irritation.
 - **Carcinogenicity:** Not listed by IARC, NTP, or OSHA.
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SECTION 12: ECOLOGICAL INFORMATION

- **Ecotoxicity:** Generally non-toxic.
 - **Mobility:** Insoluble; particles may migrate in soil.
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SECTION 13: DISPOSAL CONSIDERATIONS

- **Waste Treatment:** Non-hazardous; dispose of in accordance with local regulations.
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SECTION 14: TRANSPORT INFORMATION

- **UN/Shipping:** UN 1361 (Carbon, vegetable origin); Class 4.2.
 - **Exemption:** NOT REGULATED/EXEMPT for road/ocean freight due to high moisture content (>24%) and stabilization.
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SECTION 15: REGULATORY INFORMATION

- **TSCA:** All ingredients listed or exempt.
- **SARA 302/311/312:** Fire Hazard (Combustible Dust).
- **California Prop 65:** No intentional hazardous ingredients.

SECTION 16: OTHER INFORMATION

- **Version/Date:** 1.0 (July 15, 2026)
- **Analysis:** Based on May 25, 2026 lab data.
- **Disclaimer:** Good faith information provided for intended uses.