

Safety Data Sheet

Chemical Name/Synonyms: Ground Biochar

Appearance: Black powder



Precautions



Mask



Safety Glasses



Gloves



Ventilation

**AVOID: INHALATION • SKIN CONTACT • EYE CONTACT • FLAME EXPOSURE**

Do not eat, drink, smoke,
or consume in any way.



Always work in a
well-ventilated area.



Keep away from open
flames or sparks.



Emergency Measures

Inhalation

Move to fresh air. If symptoms such as wheezing or breathing difficulty persist, seek medical attention.

Skin Contact

Wash thoroughly with soap and water. If rash or persistent irritation occurs, seek medical attention.

Eye Contact

Flush with water for 15 minutes to remove dust particles. If irritation persists, seek medical attention.

Combustion

If fire or explosion occurs, use suitable extinguishing media. All standard extinguishing agents acceptable.

Other Safety Considerations

Incompatible materials: strong oxidizing or reducing agents, e.g., chlorine, ozone, liquid oxygen

Solubility in water: not soluble in water

Reactivity: stable

SAFETY DATA SHEET

Section 1: Identification

Product Name: Z12

Chemical Name/Synonyms: Ground biochar

Recommended Uses: Partial cement replacement

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Section 2: Hazard(s) Identification

Hazard Classification: no data available

Signal Word(s): no data available

Hazard Statements: may cause eye and respiratory irritation

Precautionary Statements:

- May cause eye irritation
- May cause respiratory irritation
- Avoid breathing dust
- May be irritating to skin
- Wash thoroughly after handling
- Use in well ventilated area
- If in eyes, rinse cautiously with water for several minutes. Remove contact lenses if easy to do so. Continue rinsing.
- Dust clouds may be explosive

Description of other hazards: no data available

Section 3: Composition/ Information on Ingredients

Chemical Name: n/a

Common Name/Synonyms: biochar

CAS Number: 16291-96-1

Section 4: First-Aid Measures

After skin contact:

- No specific skin reaction expected. Wash skin with soap and water.
- Most important symptoms/effects, acute and delayed: No data available
- Immediate medical attention and special treatment needed, if any: No data available

After eye contact:

- Flush with water for at least 15 minutes. Product can cause eye abrasions.
- Most important symptoms/effects, acute and delayed: No data available
- Immediate medical attention and special treatment needed, if any: No data available

After inhalation:

- No short-term inhalation limits. If symptomatic, move to fresh air.
- Most important symptoms/effects, acute and delayed: No data available

- Immediate medical attention and special treatment needed, if any: No data available

After swallowing:

- No data available

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: Water, foam, CO₂, dry chemical

Specific hazards from combustion: No data available

Special protective equipment for firefighters: Standard

Section 6: Accidental Release Measures

Personal precautions: No specific hazard. Avoid contact with skin and eyes.

Measures for environmental protection: Dispose of waste following local, state, and federal regulations.

Measures for cleaning/collecting: Avoid dust plumes, which may cause respiratory irritation. Explosivity of dust clouds is unknown.

Section 7: Handling and Storage

Handling: Wet media removes oxygen from air causing severe hazard to works inside vessels or confined spaces that contain the media

Storage: Dry storage

Incompatibilities: No data available.

Section 8: Exposure Controls/Personal Protection

OSHA permissible exposure limit (PEL): No data available

ACGIH threshold limit value (TLV): No data available

Exposure controls: Local exhaust and general ventilation must be adequate to meet exposure limits

General protective and hygienic measures: Wear suitable working clothes; always observe good personal hygiene practices

Respiratory protection: If airborne particles are above applicable exposure limits use NIOSH approved respiratory protection

Protection of hands: None required under normal handling conditions

Eye protection: Safety glasses with side shields

Section 9: Physical and Chemical Properties

Appearance: black powder

Odor: no data available

Odor threshold: no data available

pH: 6.5-8.0

Melting point/melting range: no data available

Boiling point/boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability: no data available

Upper/lower flammability or explosive limits: no data available

Auto ignition temperature: not determined; dust explosion risk exists if allowed to dry

Danger of explosion: not determined; dust explosion risk exists if allowed to dry

Vapor pressure: not available

Vapor density: not available

Relative density: 26-28 lb/ft³

Solubility in/Miscibility with water: not soluble in water

Section 10: Stability and Reactivity

Reactivity: Stable

Chemical stability: no data available

Conditions to avoid: dust plumes

Incompatible materials: strong oxidizing or reducing agents, e.g., chlorine, ozone, liquid oxygen

Hazardous decomposition products: no data available

Section 11: Toxicological Information

Acute toxicity: no data available

Potential routes of exposure/potential health effects

Skin: Prolonged contact can cause dryness of skin

Eye: May cause temporary eye irritation

Inhalation: no data available

Ingestion: no data available

Carcinogenic effects: no data available

Mutagenic effects: no data available

Reproductive toxicity: no data available

Sensitization: no data available

Target organs: no data available

Section 12: Ecological Information (non-mandatory)

No data available.

Section 13: Disposal Considerations (non-mandatory)

Avoid dust plumes and follow local, state, and federal guidelines.

Section 14: Transport Information (non-mandatory)

No data available.

Section 15: Regulatory Information (non-mandatory)

No data available.

Section 16: Other Information

SDS date of preparation/update:

- First prepared: Feb. 3, 2025