

Pacific Biochar Benefit Corporation
3625 Yale Drive
Santa Rosa, CA 95405

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Material Safety Data Sheet

Product: Blacklite Mix #6

Uses: Soil amendment.

Dangerous goods class: none allocated

Subsidiary risk: none allocated

Hazmat code: none allocated

UN Numbers: none allocated

Poisons schedule number: none allocated

Identification:

Fine grained char produced from carbonized softwoods (pine, fir, and cedar species), Using a continuous flow pyrolysis system to heat the feed stock to temperatures above 700 degrees Celsius for a time period of 30 seconds to 10 minutes in an oxygen deprived environment. Biochar material is then blended with worm castings and rice bran.

Uses: Soil amendment.

Physical Description/Properties:

Appearance: A black moist granular material, particle size approximately 0.5-6mm.

Moisture Content: 50% to 60%.

Solubility: not soluble in water.

Odor: Inert carbon, slightly earthy.

pH: 9.5

Ingredients: Wood Biochar, Worm Castings, Rice Bran.

Health Hazard Information:

No adverse health effects are expected if biochar is handled in accordance with this (MSDS) Material Safety Data Sheet.

Swallowed: Unlikely. Swallowing biochar may cause some abdominal discomfort.

Eye: Eye protection should be worn when working with biochar. If biochar is allowed to become dry, fine dust may occur and may become an eye irritant. In high wind conditions, biochar may become airborne and become an eye irritant.

Skin: Gloves and other personal protection should be worn when working with biochar. Skin contact with biochar may result in skin irritation. Prolonged skin contact may lead to irritant contact dermatitis.

Inhaled: Dust mask should be worn when working with biochar. Biochar should not be allowed to completely dry. Inhalation of fine dust particles may result in respiratory irritation.

First Aid:

Swallowed: Rinse mouth with water. Give plenty of water to drink. Seek medical advice.

Eyes: Flush the eyes with large quantities of water for ten minutes or more. Seek medical advice.

Skin: Wash skin with soap and water. If irritation occurs seek medical advice. Repeated or prolonged skin contact may lead to Irritant contact dermatitis (ICD).

Engineering Controls:

Avoid allowing biochar to completely dry out, avoid generating and inhaling if dust occurs. Moisture can be reapplied to remove any dust hazards. Biochar is hygroscopic, it can absorb liquids and gases, liquid and gas chemisorption may occur. Keep containers sealed when not in use and away from liquid chemicals and chemical vapors. Use in well-ventilated area.

Personal Protection: Avoid eye contact and repeated skin contact. Wear safety glasses, gloves, dust mask, and overalls/coveralls. Avoid letting the product dry out. If dusty conditions exist, wear dust respirator of p100 type.

Flammability: Noncombustible material in normal product condition (50% to 60% moisture), may smolder if exposed to heat over 250 degrees Celsius and with sufficient oxygen. Dust from completely dry biochar may ignite if exposed to an open flame. Apply clean water to product if or when any dust occurs, excess water will not affect the quality of the product.

Safe handling information:

Storage and Transport: No transport requirements are necessary. Biochar is hygroscopic, it can absorb liquids and gases, liquid and gas chemical absorption may occur. Keep containers sealed when not in use and away from liquid chemicals and chemical vapors.

Spills: Sweep up product, dispose of in appropriate refuse bin. Excess moisture is non-toxic.

Fire/Explosion Hazards: Noncombustible material in normal product condition. This biochar material is not auto-thermic. May smolder if exposed to heat over 250 degrees Celsius and with sufficient oxygen. Carbon monoxide may be emitted if smoldering occurs. Fire fighters should use breathing apparatus if fighting a fire containing biochar. Dust from completely dry biochar may ignite if exposed to an open flame. Apply clean water to product if any dust occurs, excess water will not affect the quality of the product.

Contact:

Pacific Biochar Benefit Corporation
3625 Yale Drive
Santa Rosa, CA 95405
808 936-3484
www.pacificbiochar.com
Josiah@pacificbiochar.com

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