

# “NAKED CHAR”

## Material Safety Data Sheet

Waste to Energy, Inc.

Premium BioChar

**Uses:** Soil enhancer used for agriculture and horticulture purposes.

**Dangerous goods class:** none allocated

**Subsidiary risk:** none allocated

**Hazmat code:** none allocated

**UN Numbers:** none allocated

**Poisons schedule number:** none allocated

### Identification:

Premium BioChar: made from carbonized Southern Yellow Pine, Using a continuous flow pyrolysis system to heat the feedstock to 550 degrees Celsius for 10 minutes in a oxygen deprived environment.

**Uses:** Fertilizer, soil conditioner

### Physical Description/Properties:

**Appearance:** A black moist granular material, particle size approximately 0.5-2mm.

**Moisture Content:** Approximately 35 to 40% to minimize dust.

**Solubility:** not soluble in water.

**Odor:** slight smoky odor

**Moisture content:** approximately 42% **pH:** 8 - 8.5

**Ingredients:** Premium BioChar is carbonized ground Southern Yellow Pine

The specified treatment (heated to 550 degrees Celsius for at least 10 minutes will lead to the inactivates known pathogenic bacteria, bacterial spores, viruses, protozoa and antimicrobial residues in the pine feed stock materials used to produce Premium BioChar.

### Health Hazard Information:

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

**Swallowed:** Unlikely. Swallowing Premium BioChar may cause some abdominal discomfort.

**Eye:** Unlikely. If Premium BioChar is allowed to completely dry, fine dust may occur and may become an eye irritant.

**Skin:** Skin contact with Premium BioChar may result in skin irritation; prolonged skin contact may lead to irritant contact dermatitis.

**Inhaled:** Unlikely. Premium 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 Premium BioChar to completely dry out, avoid generating and inhaling dusts if this occurs. Moisture can be reapplied to remove any dust hazards. Premium BioChar is hygroscopic, it can absorb liquids and gases, liquid and gas chem-sorption 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 and overalls. Avoid letting the product dry out. If dust conditions exist, wear dust respirator conforming to USDA guidelines.

**Flammability:** Non-combustible material in normal product condition may smolder if exposed to heat over 550 degrees Celsius. Dust from completely dry Premium BioChar may ignite if exposed to an open flame. Apply clean water to product if or when any dust occurs, excess water will not effect the quality of the product.

**Safe handling information:**

**Storage and Transport:** No transport requirements are necessary. Premium 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, reseal in a labeled container for reuse. Do not contaminate rivers or watercourses. Excess moisture is non-toxic.

**Fire/Explosion Hazards:** Non-combustible material in normal product condition. May smolder if exposed to heat over 550 degrees Celsius, may emit toxic fumes. Fire fighters should use breathing apparatus if fighting a fire containing Premium 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.

**Environmental Impact:** Do not contaminate waterways

**Contact:**

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