

# SAFETY DATA SHEET



Date Issued : 3/9/2013

MSDS No : 5026

## BIOCHAR

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** BIOCHAR

**MANUFACTURER**

Aemerge, LLC  
3103 W 1000 N  
Fortville, IN 46040  
**Customer Service:** 317-437-8647

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS:** CAUTION!

Wet carbon can deplete oxygen from the air and dangerously low levels of oxygen may result, particularly in enclosed spaces.

Fine dust clouds may form explosive mixtures with air.

May cause irritation of respiratory tract, skin and eyes.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %
Wood chip based carbon (no paint or stain)	> 85
Wood chip based ash (soluble and non-soluble)	< 5
Water	< 1

### 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**SKIN:** Wash skin thoroughly with soap and water. If irritation develops, seek medical attention.

**INGESTION:** Immediately rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention.

**INHALATION:** Move to fresh air. Seek medical attention for discomfort or if coughing or other symptoms persist.

## 5. FIRE FIGHTING MEASURES

**FLAMMABLE LIMITS:** NA = Not Applicable

**AUTOIGNITION TEMPERATURE:** > 400°C

**EXTINGUISHING MEDIA:** Water spray, dry chemical, alcohol foam or carbon dioxide.

**HAZARDOUS COMBUSTION PRODUCTS:** May include smoke and carbon monoxide.

**EXPLOSION HAZARDS:** Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. The minimum explosible concentration is 0.140 g/l.

**FIRE FIGHTING EQUIPMENT:** Full protective equipment and self-contained breathing apparatus (SCBA) with a full face mask operated in a positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL PROCEDURES:** Avoid release of product to soil, waterways, drains and sewers. Use non-sparking tools to carefully scoop up spilled material and place in an appropriate container for disposal. Avoid creating dusty conditions. If dust is airborne remove sources of ignition and ventilate area. Use personal protective equipment as outlined in Section 8.

## 7. HANDLING AND STORAGE

**HANDLING:** Use good housekeeping practices to minimize the generation and accumulation of dust in the workplace. Use personal protection and controls identified in Section 8 of this MSDS as appropriate.

**STORAGE:** Keep containers tightly closed and keep container in a cool, well-ventilated area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Provide ventilation sufficient to prevent exceeding recommended exposure limits. Keep containers and storage containers closed when not in use.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses with side shields.

**SKIN:** Gloves should be worn to provide hand protection. Long sleeve shirts should be worn in dusty conditions. Wash work clothes after each use.

**RESPIRATORY:** Not typically required. If excessive dust is present, use NIOSH approved respirator.

**WORK HYGIENIC PRACTICES:** Hands and/or face should be washed before and after breaks and at the end of each shift. Avoid contact with skin and eyes.

**COMMENTS:** Exposure Limits for Particulates (Not otherwise regulated):

OSHA PEL: 15 mg/m<sup>3</sup> (Total particulates)

OSHA PEL: 5 mg/m<sup>3</sup> (Respirable particulates)

ACGIH TLV: 10 mg/m<sup>3</sup> (Inhalable particulates not otherwise specified)

ACGIH TLV: 3 mg/m<sup>3</sup> (Respirable particulates not otherwise specified)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Solid

**ODOR:** Odorless

**COLOR:** Gray to black

**VAPOR PRESSURE:** 1 mmHg at 3586°C

**VAPOR DENSITY:** 0.4 (Air = 1)

**MELTING POINT:** 3500°C

**SOLUBILITY IN WATER:** Insoluble

**SPECIFIC GRAVITY:** 1.800 to 2.1

**Notes:** Note that bulk density differs and product will float for some time prior to taking on water and sinking.

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**STABILITY:** This product is stable under ordinary conditions of use and storage.

**POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Extreme heat

**INCOMPATIBLE MATERIALS:** Strong oxidizers such as ozone, liquid oxygen, chlorine and permanganate may result in rapid combustion. Avoid contact with strong acids.

**11. TOXICOLOGICAL INFORMATION****CARCINOGENICITY**

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**COMMENTS:** This material is non-toxic in its original state.

**12. ECOLOGICAL INFORMATION**

**COMMENTS:** This material, in its original state, is not harmful to the environment.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** Dispose of in accordance with federal, state and/or local regulations.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** Does not contain 313 chemicals above de minimis levels.

302/304 EMERGENCY PLANNING

**EMERGENCY PLAN:** This product does not contain any listed 302 chemicals above reportable thresholds.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

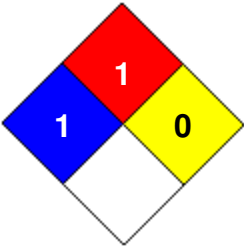
**TSCA STATUS:** All components of this product comply with the Toxic Substances Control Act (TSCA) Inventory requirements.

16. OTHER INFORMATION

HMIS RATING

HEALTH	-	1
FLAMMABILITY		1
PHYSICAL HAZARD		0
PERSONAL PROTECTION		X

NFPA CODES



**HMIS RATINGS NOTES:** X=Contact Supervisor or Operating Procedure for specific Personal Protective Equipment Requirements

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