

# BIO ENERGY SOLUTIONS

## REGENiCHAR™ Soil Amendment



### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>STATEMENT OF HAZARDOUS NATURE:</b> Not classified as hazardous according to criteria of the National Occupational Health and Safety Commission (NOHSC) Not classed as a dangerous good under the Dangerous Goods Act	
<b>SUPPLIER NAME:</b> Bio Energy Junction 1 LLC	<b>Manufacturer Address:</b> 600 Half Moon Road, Columbia Falls, MT 59912
<b>TELEPHONE:</b> 1 406 892 1332	<b>EMERGENCY:</b> 911
<b>FAX:</b> 1 406 892 1322	<b>WEBSITE:</b> <a href="http://www.bioenergy-solutions.com">www.bioenergy-solutions.com</a>
<b>PRODUCT NAME:</b> REGENiCHAR™	<b>TRADE NAMES:</b> Biochar
<b>PRODUCT DESCRIPTION:</b> Biochar infused with REGENiSYS™ (organic biostimulant derived from algae digestate).	
<b>RECOMMENDED USE:</b> Soil conditioner, soil amendment, filtration	

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Main Ingredient:</b> Pyrolyzed woody biomass (wood chip waste)	
<b>Constituent:</b>	<b>Proportion:</b>
Wood Chip Based Carbon	>85%
Wood Chip Based Ash	<5%
Microalgae Digestate and Water	<10%

### 3. FIRST AID MEASURES

<b>Eye Contact</b>	Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention.
<b>Inhalation</b>	Move to fresh air. If persistent irritation, severe coughing/breathing difficulties, or rash occur, get medical advice before returning to work with Biochar.
<b>Skin Contact</b>	Wash contacted area with soap and water.
<b>Ingestion</b>	No hazardous; make cause minor nausea and indigestion.

### 4. FIRE FIGHTING MEASURES

<b>Explosion Hazards</b>	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.
<b>Fire Hazards</b>	NA – Auto-ignition Temperature >400°C
<b>Flash Point</b>	No flash point observed.
<b>Fire Fighting Measures</b>	Use water spray or fog, foam, dry chemical, or carbon dioxide.

### 5. ACCIDENTAL RELEASE MEASURES

<b>Occupational Release</b>	Sweep up or vacuum up spills for recovery or disposal. A dust respirator may be required during clean up. No special disposal measures required.
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### 6. STORAGE AND HANDLING

Storage should consider end-use of product for quality concerns. Proper personal protective equipment to prevent inhalation, skin, and eye contact should be utilized when handling material in storage. Store away from heat sources and prevent smoking or open flame near stored materials. Keep out of reach of children.

### 7. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>National Exposure Standard</b>	N/A
<b>Engineering Controls</b>	Whenever possible, local exhaust ventilation should be used to meet TLV requirements.
<b>PPE</b>	Safety glasses, protective gloves, use approved dust respirator P100 type ¼ face if excessive dust is associated with the work.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

<b>Colour</b>	Black	<b>Solubility</b>	Insoluble
<b>Physical Description</b>	Liquid with suspended solids	<b>Relative density</b>	10-15lbs/ft <sup>3</sup>
<b>Odour</b>	Minimal odour that is of earthy and/or charcoal in nature.	<b>Auto-ignition temperature</b>	>400°C
<b>pH</b>	8-10	<b>Flashpoint</b>	N/A

## 9. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under recommended conditions for use and storage.
<b>Reactivity:</b>	Contact with strong oxidizers may result in fire.
<b>Incompatible Materials:</b>	Strong oxidizers, sparks, heat, flame.
<b>Conditions to avoid:</b>	Incompatible materials, combustible materials.
<b>Hazardous decomposition products:</b>	Carbon oxides (CO, CO <sub>2</sub> ).

## 10. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	Not classified
<b>Health Hazard:</b>	Mild eye or skin irritation may occur in some sensitive individuals. May cause respiratory irritation (single exposure).
<b>Carcinogenicity:</b>	Not classified under OHSC.

## 11. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No additional information available
<b>Mobility:</b>	No additional information available
<b>Biodegradability:</b>	100% Biodegradable
<b>Bioaccumulation:</b>	N/A

## 12. DISPOSAL CONSIDERATIONS

<b>Waste Disposal:</b>	No special disposal requirements. Dispose of product according to relevant local, provincial, and federal government regulations.
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## 13. TRANSPORT INFORMATION

<b>Not classified as a dangerous good according to the Transportation of Dangerous Goods Act.</b>
<b>DOT regulations:</b> Charcoal/Activated Carbon/Carbon <ul style="list-style-type: none"><li><b>Hazard Class:</b> 4.2, as with activated carbon, this product is not considered self-heating</li><li><b>Land transportation ADR/RID (cross border):</b> N/A</li><li><b>ADR/RID class:</b> N/A</li></ul>
<b>Air transport ICAO-TI and IATA-DGR:</b> N/A
<b>ICAO/IATA Class:</b> N/A

## 14. REGULATORY INFORMATION

<b>OHSC Status</b>	No specific requirement according to the Occupational Health and Safety Commission (OHSC)
<b>OMRI Product</b>	aaq-10287
<b>DSL Status</b>	N/A