	BOUNTY™ Biochar	Document No.	Biochar
		Document Type	SDS
		Revision Date	6/8/2020
BIOCHAR		Revision Number	1
		Issue Date	6/8/2020
Prepared By: RDA Atlantic Inc.		Prepared For: Camexa Business Solutions, BOUNTY™ Biochar	

## Safety Data Sheet

### Section 1: Identification

**Product Name:** Biochar  
**Product Synonyms:** Charcoal, Activated Carbon, Char  
**Recommended Use:** Soil Amendment/Conditioner, Compost Additive, Filtration, Fertilizer Additive

**Company Information:** RDA Atlantic Inc.  
752 Bedford Highway  
Halifax, NS  
B3M 2L9

**Emergency Information:** In event of emergency call 911  
RDA Atlantic Company Emergency Contact – 902-443-9170 EXT 254  
For Information about this SDS, use this department contact phone # – 902-443-9170 EXT 254

### Section 2: Hazard Identification

**Hazard Classifications:** Flammable Solids – Category 2  
Self-Reactive Substance – Type F  
Combustible Dusts – Category 1  
Acute Toxicity (Inhalation) – Category 4  
Eye Irritation – Category 2B


**Signal Word:** Warning

**Hazard Statements:** H228 Flammable solid  
H242 Heating may cause a fire  
H332 Harmful if inhaled  
H320 Causes eye irritation

**Precautionary Statements:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P403 Store in well – ventilated area.  
P264 Wash hands thoroughly after handling.  
P261 Avoid breathing dust.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Pictograms:**



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### Section 3: Composition/Information on Ingredients

<b>Ingredients:</b>	Carbon	Ash	Water
Percent (%wt)	58%-76%	2%	<5%

### Section 4: First-aid Measures

**Effects of Overexposure:** Casual exposure to biochar should not cause irritation. Extensive exposures may cause allergenic reactions in the skin, eyes, or upper respiratory tract in overly sensitive individuals. Treat symptomatically.

**First-aid Procedures:**

Inhalation: Remove to fresh air. If persistent irritation, cough, breathing difficulties, or rash occur then get medical attention before returning to work.

Skin Contact: If rash or irritation occurs then seek medical attention before returning to work.

Eye Contact: Flush with water to remove dust particles. If irritation persists, seek medical attention.

Ingestion: If swallowed then drink lots of water to dilute biochar in digestive system. Do not induce vomiting.

### Section 5: Fire-fighting Measures

**Extinguishing Media:** Use water spray or carbon dioxide unless another risk of additional class becomes involved – if so, respond appropriately to additional material. Unsuitable extinguishing media not specified.


**Specific Hazards:** Dust particles may cause fire hazard if mixed with air or oxidiser, and in the presence of an ignition source. Product may also sustain fire from other hazardous materials.

**Fire Fighting Equipment:** Wear appropriate protective equipment, including self – contained breathing apparatus with full mask.

### Section 6: Accidental Release Measures

**Procedures in Case of Accidental Release:** Sweep or vacuum up spills for proper disposal. Wear dust respirator for protection against airborne particles.

**Contamination Cleaning:** Disposal in accordance with federal, provincial, and/or local regulations.

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## Safety Data Sheet

### *Section 7: Handling and Storage*

**Safe Handling Procedures:** Wear proper personal protective equipment. Avoid inhalation of dust and contact with eyes and skin. Handle away from flammable or oxidising materials.

**Safe Storage Procedures:** Store away from flammable materials, oxidising materials, and any possible ignition sources.

### *Section 8: Exposure Controls/Personal Protection*

**Respiratory Protection:** There is no concern of wearing a proper mask unless exposure to airborne dust particles exceeds allowable concentrations. Wear face mask in event of exposure to airborne particles, such as N95 or P100 respirator.

**Skin Protection:** Avoid contact with skin by using proper gloves or long clothing.

**Eye Protection:** Wear safety glasses with side shields or properly fitted goggles/face shield when high concentrations of dust are present. Have facility to flush eyes with water if acute irritation occurs.

**Personal Hygiene:** Make sure to wash hands or any area where there has been contact with biochar. Wash clothing after finishing contact with biochar.

**Ventilation:** Adequate ventilation should be installed to prevent exceeding recommended exposure limits.

**Other Protective Equipment:** No special equipment is required. Use clean clothing.

### *Section 9: Physical and Chemical Properties*

**Appearance:** Black with varying particle sizes

**Odour:** minimal odour with a slight burning smell

**Odour Threshold:** N/A

**pH:** ~8

**Melting Point:** N/A

**Freezing Point:** N/A

**Boiling Point:** N/A

**Boiling Range:** N/A

**Flash Point:** 230°C


**Evaporation Rate:** N/A

**Flammability:** N/A

**Upper Flammability Limit:** N/A

**Lower Flammability Limit:** N/A

**Vapour Pressure:** N/A

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**Vapour Density:** N/A  
**Relative Density:** 16.5 lb/ft<sup>3</sup>  
**Solubility:** Not Soluble  
**Autoignition Temperature:** >400°C  
**Decomposition Temperature:** Starts decomposition above 180°C

### *Section 10: Stability and Reactivity*


**Reactivity:** Possible reaction with oxidisers when exposed as a dust.  
**Chemical Stability:** Stable when stored properly at room temperature.  
**Hazardous Reactions:** No hazardous reactions. Dust may cause explosion.  
**Conditions to Avoid:** Avoid ignition or heat sources.  
**Incompatible Materials:** Combustible and oxidising substances.  
**Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>), polycyclic aromatic hydrocarbons, nitrogen oxides, sulphur oxides.

### *Section 11: Toxicology Information*

**Acute Toxicity:** Respiratory irritation caused from inhalation of concentrations greater than 5g/m<sup>3</sup>.  
**Chronic Toxicity:** Repeated exposure to dust may cause respiratory irritation, inflammation, or sensitisation which may result in illnesses such as hay fever, asthma, and pneumonia like illnesses.  
**Ingestion:** Unlikely exposure site under normal conditions. May cause abdominal discomfort, nausea, or throat irritation.  
**Eye:** Can cause eye irritation, redness, or watering.  
**Respiratory:** May cause irritation of the nose, throat, or lungs. May aggravate pre-existing conditions such as asthma and bronchitis.  
**Skin:** May cause slight irritation when in prolonged contact with biochar.

### *Section 12: Ecological Information*

**Ecotoxicity:** No data available.  
**Biodegradable:** No data available.  
**Bioaccumulation:** No data available.

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**Mobility of Soil:** Minimal mobility.

**Marine:** Not a marine pollutant.

### *Section 13: Disposal Considerations*

Dispose contents in accordance with local, regional, national, or international regulations.

### *Section 14: Transport Information*

- **UN #:** 1361
- **Proper Shipping Name:** Carbon
- **Transport Hazard Class:** Class 4.2 – Substances liable to spontaneous combustion. Product is not considered self – heating.
- **Packing Group:** III
- **Environmental Hazards:** Presents no environmental or marine hazards.
- Always transport in closed containers with secured lid or packaging. Transport covered to prevent air flow across the product and minimize dust. Keep the contents dry. Wear suitable personal protective equipment when unloading bulk material. Unload away from all people and animals that may be directly or indirectly exposed to the dust that may become airborne from handling material. Follow procedures outlined in safety data sheet in the event of an emergency.

### *Section 15: Regulatory Information*

- Canadian Food Inspection Agency Registration #2020121A
- National Pollutant Release Inventory: Not listed.
- Canadian Environmental Protection Act, 1999, List of Toxic Substances (Schedule 1): Not listed

### *Section 16: Other Information*

The information contained herein is accurate to the best of our knowledge. All materials may present unknown hazards and should be used with caution. Neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

### *References*

- **The International Maritime Dangerous Goods (IMDG) Code:**  
<https://www.phmsa.dot.gov/international-program/adr-and-rid>
- **Transport Canada:**

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<p><a href="https://tc.canada.ca/en/aviation/transportation-dangerous-goods-aircraft">https://tc.canada.ca/en/aviation/transportation-dangerous-goods-aircraft</a></p> <ul style="list-style-type: none"> <li>• <b>UN Transport of Dangerous Goods:</b> <a href="https://unece.org/fileadmin/DAM/trans/danger/publi/unrec/rev21/ST-SG-AC10-1r21e_Vol1_WEB.pdf">https://unece.org/fileadmin/DAM/trans/danger/publi/unrec/rev21/ST-SG-AC10-1r21e_Vol1_WEB.pdf</a></li> <li>• <b>National Pollutant Release Inventory:</b> <a href="https://www.canada.ca/en/environment-climate-change/services/national-pollutant-release-inventory/substances-list/threshold.html">https://www.canada.ca/en/environment-climate-change/services/national-pollutant-release-inventory/substances-list/threshold.html</a></li> <li>• <b>Canadian Environmental Protection Act Registry:</b> <a href="https://www.canada.ca/en/environment-climate-change/services/canadian-environmental-protection-act-registry/substances-list/toxic.html">https://www.canada.ca/en/environment-climate-change/services/canadian-environmental-protection-act-registry/substances-list/toxic.html</a></li> </ul>
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