SECTION I - IDENTIFICATION

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Wakefield Biochar Soil Conditioner (1.5 qt, 1 Gallon, 1 CF, 2 CY Supersack): made from carbonized Southern Yellow Pine. Manufactured using continuous flow pyrolysis system to heat the feedstock to >700 degrees Celsius in a low oxygen environment.

Product Use

Soil Conditioner, Soil Remediation, Manufacturing Ingredient

Provider

Wakefield Agricultural Carbon LLC

Address

1826 Clay Road

City	State	
Valdosta	Georgia	
Zip code	Emergency Telephone	
31601	(573) 479-0468	
Date prepared		
November 4, 2022		
Prepared by	Phone	
Thomas Marrero	(573) 479-0468	

SECTION II - HAZARD IDENTIFICATION

Hazard Classification of Wakefield Biochar Soil Conditioner:

- Flammable Wood Category 5
- Aspiration Hazard Category 4
- Carcinogenicity Category 5
- Specific Target Organ Toxicity (Repeated Exposure) Category 5
- Specific Target Organ Toxicity (Single Exposure) Category 5
- Skin Irritation Category 5
- Eye Irritation Category 5
- Chronic Aquatic Toxicity Category 5

Where the category numbers refer to how severe the hazard is with 1 being the most hazardous and 5 being the least hazardous.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL
Wood Based Carbon	85 -95%	10 mg/m3	15 mg/m3	5 mg/m3
Wood Based Ash	5%	Not listed		
Moisture Content	3 - 55%	Not listed		

SECTION IV – FIRST-AID MEASURES

OVER EXPOSURE

Wakefield Agricultural Carbon LLC

MSDS - Wakefield Biochar Soil Conditioner

Page **2** of **3** Exposure to biochar should not present a health hazard. Carbon dust in excessive amounts when handling may produce an allergenic response in sensitive individuals.

Skin Contact	Prolonged contact with skin may result in slight irritation/redness in sensitive individuals. Should be remediated by rinsing thoroughly. Seek medical attention if persists.
Eye Contact	May irritate the eyes and cause watering and redness in sensitive individuals. Rinse thoroughly with plenty of water to remove foreign bodies. Seek medical attention if persists.
Inhalation	Inhalation of dust may irritate nose, throat, and lungs. May aggravate pre-existing conditions. Remove affected person to fresh air. Seek medical attention if persists.

SECTION V - FIRE-FIGHTING MEASURES

Flammable X yesno	If yes, under what conditions?	If yes, under what conditions? Near direct flame or when exposed to extreme temperatures (>700°C).		
Means of Extinction	ivear direct name of when exposed to ex	inear direct fiame of when exposed to extreme temperatures (>700 C).		
Water, carbon dioxide, dry chem	nical or chamical foam			
Autoignition Temperature	Explosion Data – Sensitivity to Impact	Explosion Data – Sensitivity to Static Discharge		
>700 °C	NA	Fine dust particle above 0.140 g/l in the		
		presence of an ignition source presents dust		
explosion hazard.				
NFPA	•			
Use water to cool exposed conta	niners and remove from path of fire if safe to d	o so. Wear self-contained breathing apparatus with		

SECTION VI – ACCIDENTAL RELEASE MEASURES

full face mask and protective clothing.

Leak and Spill	Ensure area is well ventilated. Vacuum or sweep material and dispose of in suitable container according to
Procedures	local disposal guidelines.
Cautions	Avoid creating dust and be cautious of smoldering. May smolder if exposed to heat over 550 degrees Celsius.

SECTION VII – HANDLING AND STORAGE

Handling	Avoid dust release during storage or handling.
Procedures	
Storage	Store below 80C and keep covered to limit dust. Do not store with oxidizing agents.
Requirements	

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Gloves: gloves are recommended to reduce skin contact, particularly in sensitive individuals.

Respirator: If dust is excessive during handling, Wear a NIOSH/OSHA approved particle respirator (p100).

Eye: Wear safety glasses with side shields.

Ventilation: When possible exhaust ventilation should be used.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Appearance	Odor
Solid, particle size 0.1 – 2mm	Black carbonaceous material	none

Wakefield Agricultural Carbon LLC MSDS – Wakefield Biochar Soil Conditioner Page 3 of 3

pH	Boiling Point/Range	Melting/Freezing Point
8 – 9	NA	NA
Vapor Pressure (mmHg)	Solubility	
NA	INSOLUBLE IN WATER	

SECTION X – STABILITY AND REACTIVITY

Chemical Stability	If no, under which conditions?		
_Xyesno			
Incompatibility with Other Substances	If yes, which ones?		
X_yesno	Strong Oxidizers and open flames		
Hazardous Decomposition Products			
Combustion of product produces carbon monoxide and hydrocarbons and organic acids.			

SECTION XI – TOXICOLOGICAL INFORMATION

DATA NOT AVAILABLE		

SECTION XII – ECOLOGICAL INFORMATION

DATA		

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal

Sweep or vacuum product. Incinerate or dispose of in accordance with all federal, state, and local regulations.

SECTION XIV - TRANSPORT INFORMATION

Always ensure load is covered to prevent dust loss. When tipping or unloading ensure proper PPE is worn. Biochar is hygroscopic and can absorb liquids and gases.

SECTION XV – REGULATORY INFORMATION

No additional information

SECTION XVI – OTHER INFORMATION

Additional Information:

The above information is your notice as to the Right-to-Know listings of the stated products. The information contained herein is based on data available at this time and is believed to be accurate to the best of our knowledge. As of November 3, 2016, this is the most up to date information Wakefield Agricultural Carbon LLC can give. Wakefield Agricultural Carbon LLC will do everything in its power to ensure that updated versions of this MSDS is distributed to the appropriate customers but ultimately the responsibility of obtaining up to date SDS belongs to the user. Since information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, no responsibility is assumed for the results or damage of its use.