

SAFETY DATA SHEET

SECTION I – IDENTIFICATION

Product identifier Pure Granular Biochar: made from carbonized Southern Yellow Pine. Manufactured using a continuous flow pyrolysis system to heat the feedstock to approximately 550 degrees Celsius for approximately 10 minutes in a low oxygen environment.	
Product Use Soil Conditioner, Soil Remediation	
Provider Turf Chemicals Plus, Inc.	
Address 114 Manheim Street	
City Mount Joy	State Pennsylvania
Zip code 17552	Emergency Telephone (717-653-0616)
Date prepared December 2023	

SECTION II – HAZARD IDENTIFICATION

<p>Hazard Classification of Biochar:</p> <ul style="list-style-type: none"> • 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 <p>Where the category numbers refer to how severe the hazard is with 1 being the most hazardous and 5 being the least hazardous.</p>
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SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	%	ACGIH TLV-TWA	ACGIH STEL	OSHA PEL
Wood Based Carbon	90-97%	10 mg/m3	15 mg/m3	5 mg/m3
Wood Based Ash	5%	Not listed		
Moisture Content	35-40%	Not listed		

SECTION IV – FIRST-AID MEASURES**OVER EXPOSURE**

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_ yes ___no	If yes, under what conditions? Near direct flame or when exposed to extreme temperatures (>700°C).	
Means of Extinction Water, carbon dioxide, dry chemical, or chemical foam		
Autoignition Temperature >700 °C	Explosion Data – Sensitivity to Impact NA	Explosion Data – Sensitivity to Static Discharge 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 containers and remove from path of fire if safe to do so. Wear self-contained breathing apparatus with full face mask and protective clothing.		

SECTION VI – ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Ensure area is well ventilated. Vacuum or sweep material and dispose of in suitable container according to 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 Procedures	Avoid dust release during storage or handling.
Storage Requirements	Store below 80C and keep covered to limit dust. Do not store with oxidizing agents.

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.
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SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid, particle size 0.5 – 2mm	Appearance Black carbonaceous material	Odor minimal smoky odor
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pH 8 – 8.5	Boiling Point/Range NA	Melting/Freezing Point NA
Vapor Pressure (mmHg) NA	Solubility INSOLUBLE IN WATER	

SECTION X – STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> _yes <input type="checkbox"/> _no	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> _yes <input type="checkbox"/> _no	If yes, which ones? 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 NOT AVAILABLE

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. Transport with a minimum of 20 – 30% moisture content is recommended.

SECTION XV – REGULATORY INFORMATION

No additional information

SECTION XVI – OTHER INFORMATION