

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

STATEMENT OF HAZARDOUS NATURE: GHS Classification: Not classified as hazardous according to the Globally Harmonised System Of Classification and Labelling of Chemicals,

SUPPLIER NAME: Southland Carbon Limited

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WEBSITE: www.southlandcarbon.co.nz

PRODUCT NAME:

Premium Feed Grade Biochar

ANZBIG Compliant: as per ANZBIG Code of practice for the Sustainable Production and Use of Biochar (2021 Table 3) which follows International regulators' safe limits for feeds Southland Carbon feed grade biochar passes test requirements for heavy metals/contaminants

PRODUCT DESCRIPTION: Biochar is carbonised wood material that has been heated to at least 500°C in a low oxygen environment for a minimum of 30 minutes.

TRADE NAMES:

Premium Feed Grade Biochar

RECOMMENDED USE:

Animal Feed Additive - Soil remediation – Fertiliser additive – Water filtration

2. COMPOSITION / INFORMATION ON INGREDIENTS

Constituent:	CAS Number:	Proportion:
Carbon (plant derived)	7440-44-0	80-90% Dry basis
Minerals (plant derived)	NA	5-10% Dry basis
Water	NA	25%

3. FIRST AID MEASURES

Eye Contact	Unlikely. Fine dust from the biochar could be a potential irritant. If eye contact occurs, hold eyelids apart and flush eyes continuously with running water for at least 15 minutes, then obtain immediate medical attention. Do not use a chemical neutraliser. Advice to Doctor: Consider further flushing of eyes with large amounts of water or saline solution.
Inhalation	Unlikely. If dust from biochar is inhaled, remove victim to fresh air. Seek medical assistance in case of known or possible overexposure to this material or with symptoms including chest pain, difficulty breathing, loss of consciousness, or other adverse effects, which may be delayed. If breathing has stopped, start basic life support and seek immediate medical attention. Advice to Doctor: Treat symptomatically.
Skin Contact	Unlikely. Contact with biochar may cause skin irritation. If affected, remove contaminated clothing and jewellery. Wash affected area with running water. Obtain immediate medical assistance if skin reaction occurs. This may be immediate or delayed. Do not use a chemical neutraliser.
Ingestion	Unlikely. If a large amount has been swallowed, or if symptoms develop, contact a Poisons Information Centre or a doctor for advice.

4. FIRE FIGHTING MEASURES

Explosion Hazards	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.
Fire Hazards	This product is non-flammable in normal condition. May smoulder if exposed to heat over 550°C.
Flash Point	NA.
Extinguishing Media	Use appropriate media for surrounding fire.
Fire Fighting Measures	No special fire fighting measures. Water needs to be available for quenching.

5. ACCIDENTAL RELEASE MEASURES

Occupational Release	Sweep up spills and store in a sealed container for re-use. Excess moisture is non-toxic. Wash down spill area with water to remove traces of the material.
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6. STORAGE AND HANDLING

Storage	Do not near open flame or sources of ignition.
Handling	Equipment used for handling product. Limit all unnecessary personal contact. Use normal safety procedures. Observe good personal hygiene. Prohibit eating, drinking and smoking when handling product.

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

PPE	Wear safety goggles and/or a face shield. Use approved dust masks or respirators when exposure level may approach the threshold level limit (TLV). Use protective gloves and overalls. Full protective clothing may be necessary under heavy dust conditions.
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8. PHYSICAL AND CHEMICAL PROPERTIES

Colour	Black	Solubility	Not soluble in water
Physical Description	A black, granular material, particle size <5mm.to 15mm	Boiling point	NA
Odour	Odourless or slight smoky odour	Moisture content	Approximately 25%
pH	7.49 -10.2	Dry bulk density	100 kg/m ³

9. STABILITY AND REACTIVITY

Chemical Stability:	Stable unless released as a dust, keep moist.
Hazardous Polymerisation:	Will not occur.
Incompatible Materials:	Will react with strong oxidising agents.
Conditions to Avoid:	Dust formation, temperatures above 180°C
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide.

10. TOXICOLOGICAL INFORMATION

Acute	
Health Hazard Summary	Irritant. Use safe work practices to avoid eye or skin contact and inhalation. Inhalation of biochar dust may cause over prolonged periods serious delayed lung injury.
Eye	Irritation can occur following direct contact. Symptoms might include redness, swelling, blurred vision or pain.
Ingestion	Ingestion of large amounts may irritate the gastric system.
Inhalation	Irritating to the respiratory system. Allergic reaction can occur following repeated contact. Symptoms might include rhinitis, sneezing, itching or signs similar to asthma such as coughing, wheezing or difficulty breathing, which may occur following repeated inhalation.
Skin Contact	Irritant. Allergic skin reaction can occur following direct contact. Symptoms include skin rash, itching, redness and swelling of the skin, lips, tongue and face. Long exposure could aggravate existing skin conditions.
Chronic	There are no known chronic health effects as a result of exposure to biochar

11. ECOLOGICAL INFORMATION

Environment	Considered low risk. Can generate alkaline leachate which can potentially cause adverse effects to receiving environments. Do not contaminate waterways.
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12. DISPOSAL CONSIDERATIONS

Waste Disposal	No special disposal requirements. Dispose of product according to relevant government regulations at an approved waste disposal site.
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13. TRANSPORT INFORMATION

Not classified as Dangerous Goods by the criteria of the NZ Land Transport Rule: Dangerous Goods 2005 Provided it retains 25% moisture. NON-DANGEROUS GOODS.
Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS. Provided it retains 25% moisture.
This product has been tested according to "United Nations Recommendations on the Transport of Dangerous Goods,Manual of Tests and Criteria Part III - 33.3.1.3" and is not classified as a Class 4.2 dangerous good. Provided it retains 25% moisture.

14. REGULATORY INFORMATION

Poison Schedule	Not scheduled.
NZIoC Status	Not registered on New Zealand Inventory of Chemicals (NZIoC)

15. Feeding Biochar guidelines

Health Hazard when dispensing	Use a Mask when handling biochar as it contains fine particle matter. Biochar can ignite if exposed to heat or flame. Gloves recommended when handling as it can stain the skin If dusty, dampen with water mist
Dosage	Dosage should never exceed 0.8% of daily DMI unless directed by a vet in presence of acute disease Monitor manure texture for indicators of dosage. All animals Free choice: most animals will self-medicate Trough should be self-draining. Biochar should be slightly damp but not floating in water
Medication	DO NOT FEED Biochar when medicating. Allow 48 hrs before and after medication course. Before re-commencing Biochar supplementation
Drenching	DO NOT FEED Biochar when drenching. . Allow 48 hrs before and after medication course. Before re-commencing Biochar supplementation
Vaccinations	DO NOT FEED biochar when vaccinating. Allow 48 hrs before and after medication course. Before re-commencing Biochar supplementation
Constipation or Colic	DO NOT feed this product to animals with constipation or colic