Safety Data Sheet
CarbonBuilder™ Wheat FM

SECTION 1: IDENTIFICATION OF THE HAZARDOUS CHEMICAL AND OF THE SUPPLIER

Product Name:	CarbonBuilder™ Wheat FM
Recommended Use:	Microbial soil amendment intended for use in agricultural fields
Manufacturer / Supplier:	Loam Bio Pty Ltd Building 1120 346 Leeds Parade Orange, NSW 2800 Australia Telephone: 1800 5626 246
Emergency Phone Number:	Poisons Information Centre: 131 126

SECTION 2: HAZARDS IDENTIFICATION

Classification	Not classified as hazardous according to the WHS Regulations and the GHS (7th Edition). Not classified as a dangerous good according to the Australian Dangerous Goods Code (ADG 7.7).
Hazards not otherwise classified (HNOC):	Dust may cause mechanical irritation to eyes, skin, or respiratory tract. The product is non-combustible and not expected to form combustible dust-air mixtures under normal handling conditions.
Label Elements:	No signal word, pictogram or hazard statement required.
Precautionary Statements:	Avoid generating dust; maintain adequate ventilation.
Other Information:	None

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance:

Active Ingredient: *Thozetella nivea* (non-genetically modified)

Composition by weight:	1-15%
Minimum CFU/g:	5E+07
CAS Number:	N/A (biological material)

Inert Ingredient: Talc (pharmaceutical grade, asbestos free; <1% crystalline silica, respirable fraction below exposure standard)

Composition by weight:	85-95%
CAS Number:	14807-96-6

SECTION 4: FIRST AID MEASURES

Inhalation:	Remove to fresh air. Seek medical attention if symptoms persist.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting

	lower and upper eyelids. If present and easy to remove, remove contact lenses. Continue rinsing. Consult a doctor, as needed.
Skin contact:	Wash skin with soap and plenty of water. Remove contaminated clothing and wash before reuse. If irritation persists, consult a doctor.
Ingestion:	Rinse mouth with water. Do NOT induce vomiting. Contact Poisons Information Centre: 131 126. Consult a doctor, as needed.

Most important symptoms & effects - both acute and delayed:

Symptoms	Dust exposure may cause temporary irritation of eyes, skin, and/or respiratory tract.
Effects of Exposure	No systemic toxic effects are expected.

Indication of any immediate medical attention and special treatment needed:

Note to Doctors	Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Use media appropriate for surrounding materials (water spray, foam, dry chemical, CO_2)
Unsuitable Extinguishing Media:	None known. High-pressure jets may disperse dust.
Specific Hazards:	Product is non-combustible; however, decomposition of trace organic material may produce carbon oxides (CO, CO_2), nitrogen oxides (NO_x), and other organic by-products.

Special protective equipment and/or precautions for firefighters:

Use self-contained breathing apparatus (SCBA) and full protective clothing. Avoid inhaling fumes from Decomposition. Cool containers with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Avoid creating dust. Ensure adequate ventilation when handling indoors.
- Wear appropriate PPE (see Section 8).

Environmental precautions:

- This product is intended for outdoor agricultural use; not expected to be pathogenic to plants.
- Spills in agricultural fields can be incorporated into soil in the intended treatment area.
- Prevent uncontrolled release into waterways, drains or stormwater systems.

Method and materials for containment and cleaning up:

- If spilled in the course of application, the material may be incorporated into soil in the same area of intended use.
- If spilled indoors, while in storage, or during the course of transport - collect spilled material by gently sweeping or HEPA-filtered vacuuming in a manner that minimises dust generation. Wash down hard surfaces with water after cleanup.
- Place collected material in labelled containers for reuse in the field or disposal in accordance with local regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

The product should be handled in accordance with good agricultural and industrial hygiene practices. Open containers carefully to minimise dust release. When handling outdoors during seed mixing or sowing, position yourself upwind of the operation where practicable to minimise exposure to dust. Use local ventilation if handling large volumes indoors. Avoid inhalation of dust; wear a P2 respirator if dust levels increase.

Prohibit eating, drinking, and smoking in use areas; wash hands after handling.

Conditions for safe storage, including any incompatibilities

The product should be stored in its original sealed packaging in a cool, dry, and well-ventilated area. Protect from moisture and direct sunlight, and keep away from strong oxidising agents. Good housekeeping practices should be maintained to avoid the build-up of spilled powder or dust. Product should be stored separately from food, drink, and animal feed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Component	Exposure Standard (SafeWork Australia)	Notes
Talc (pharmaceutical grade, asbestos free; <1% crystalline silica)	TWA (8-hour): 2.5mg/m³ (respirable dust)	Applies to respirable fraction only
Thozetella nivea spores	No exposure standard allocated	Biological material classified as Risk Group 1 (RG1), unlikely to cause disease in healthy individuals

Note: Maintain airborne dust levels as low as reasonably practicable to prevent irritation.

Appropriate Engineering Controls:

Provide local or general exhaust ventilation where dust may be generated. Ground and bond equipment to avoid static discharge. Use dust-suppression measures and good housekeeping to minimise accumulation.

Individual protection measures, such as personal protective equipment:

P2 particulate respirator (AS/NZS 1716-compliant) if dust levels approach the exposure standard or irritation occurs. Safety glasses with side shields are recommended to protect against eye contact. Gloves should be worn when handling bulk material or when prolonged contact is expected. Standard hygiene measures should be observed, including washing hands after handling and removing contaminated PPE or clothing before eating, drinking, or smoking.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Solid
Appearance	White, to grey powder
Odour	Slight, earthy
Odour Threshold	Not determined

Property	
pH	Not applicable
Melting point / freezing point	Not applicable
Initial boiling point & boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability	Non-combustible solid
Upper flammability or explosive limits	Not determined
Lower flammability or explosive limits	Not determined
Vapour pressure	Not applicable
Relative vapour density	Not applicable
Relative density	Approximately 0.8 – 1.0 g/cm³
Water solubility	Insoluble in water
Solubility(ies)	Not determined
Partition coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity (kinematic/dynamic)	Not applicable

Other information

No explosive or oxidising properties identified. Product is non-combustible and not expected to form combustible dust-air mixtures.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	The product is not considered reactive under normal storage and environmental conditions. Product is non-combustible and does not present a dust-explosion hazard.
Chemical stability	Stable when stored and handled as recommended.
Possibility of hazardous reactions	None known. No hazardous polymerisation or other dangerous reactions are expected under normal conditions of use.
Conditions to avoid	Excessive dust generation in confined areas; contact With strong oxidising agents.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	Thermal decomposition or combustion may produce carbon oxides (CO, CO_2), nitrogen oxides (NO_x), and

other organic by-products.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

The fungal spores in this product are classified as Risk Group 1 (RG1) for pathogenicity to humans, meaning they are unlikely to cause disease in healthy individuals. The primary potential route of exposure is via inhalation of dust. Talc may cause mechanical irritation if airborne concentrations are high.

Likely routes of exposure

Inhalation	May cause temporary irritation of the nose, throat, or respiratory tract if dust is inhaled.
Eye contact	May cause irritation, redness, or discomfort.
Skin contact	Not expected to cause significant effects; may cause mild dryness or irritation in some individuals.
Ingestion	Not expected to be toxic; ingestion of large amounts may cause gastrointestinal discomfort.

Symptoms related to the physical, chemical and toxicological characteristics

Exposure to dust may cause temporary irritation of eyes, skin, or respiratory tract. No systemic toxicity is expected.

Acute and chronic effects

No acute toxicity data are available. Based on ingredient nature and classification, the product is not expected to be acutely toxic, sensitising, mutagenic, carcinogenic, or toxic to reproduction. Prolonged or repeated exposure to respirable talc dust at concentrations above the exposure standard may cause persistent respiratory irritation. Chronic exposure to high concentrations of respirable talc dust may lead to pneumoconiosis or pulmonary fibrosis (lung scarring).

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity	No specific ecotoxicity data are available for this product. The fungal spores are naturally occurring, non-genetically modified, and are not expected to be hazardous to plants or the environment. The talc component is an inert mineral that is not toxic to aquatic or terrestrial organisms.
Persistence and degradability	The fungal spores are biodegradable and expected to degrade naturally in soil under environmental conditions. Talc is a stable, non-degradable mineral that will persist in the environment without undergoing chemical change.
Bioaccumulation	Not expected to bioaccumulate.
Mobility in soil	Spores may persist locally in the soil environment but are not expected to migrate significantly or contaminate waterways under normal conditions of use. Talc is insoluble and immobile in soil and water.

Other adverse effects	No adverse environmental effects are anticipated under normal conditions of use.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Unused product may be applied to soil as per intended use or disposed of according to local regulations. Do not discharge into drains, sewers, or waterways.

Contaminated Packaging:
Empty product packaging should be shaken free of residual powder and may be recycled where facilities exist, or disposed of as non-hazardous waste in accordance with local requirements.

SECTION 14. TRANSPORT INFORMATION

ADG (Australian Dangerous Goods Code)
Not classified as a Dangerous Good under the ADG Code (7.7).

IATA (International Air Transport Association)
Not regulated for transport by air.

IMDG (International Maritime Dangerous Goods Code)
Not regulated for transport by sea.

UN number
Not applicable.

Proper shipping name
Not applicable.

Transport hazard class(es)
Not applicable.

Packing group
Not applicable.

Environmental hazards for transport purposes
Not classified as environmentally hazardous.

Special precautions for user
Avoid creating dust during handling and transport. Ensure containers are properly sealed to prevent spillage.

Hazchem code
Not applicable.

SECTION 15. REGULATORY INFORMATION

WHS Classification
This product is not classified as hazardous according to the Globally Harmonized System of

Classification and Labelling of Chemicals (GHS, 7th Edition) as adopted in Australia under Work Health and Safety (WHS) Regulations.

ADG Code
Not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code, 7.7).

AIIC (Australian Inventory of Industrial Chemicals)
Talc is listed; biological materials, such as non-genetically modified fungal spores are typically exempt from listing on AIIC. For confirmation of regulatory status, consult the Australian Industrial Chemicals Introduction Scheme (AICIS).

Poisons Schedule
This product is not classified under the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Other regulatory information
No additional national or international regulatory restrictions are known for this product.

SECTION 16: OTHER INFORMATION

Date of preparation:	09 September 2025
Revision number:	Rev. 02
Next review date:	09 September 2030 - or earlier if new information becomes available.
Revision note:	This SDS supersedes all previous versions prepared for this product.

Disclaimer
This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System (GHS, 7th Edition), Australian WHS Regulations and the Safe Work Australia Code of Practice. The information herein is believed to be correct at the time of preparation and is provided in good faith. No warranty is expressed or implied regarding the accuracy or completeness of the data. Users are responsible for ensuring the product is suitable for their intended purpose and for compliance with all applicable laws and regulations.