

MATERIAL SAFETY DATA SHEET

Product name:	GreenRhiz
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Version:	1.0
Status:	Approved
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1. IDENTIFICATION OF MATERIAL AND SUPPLIER

Product name:	GreenRhiz
Other names:	Rhizobia (Microbial culture)
Product use:	Legume seed treatment
Manufacturer:	Green Microbes Australia Pty Ltd (ABN: 41 142 831 294) Unit 5, 42 Sam Street, Forbes, NSW 2871
Telephone:	(02) 6851 2788
Emergency telephone:	0435 207 783
Email:	contact@greenmicrobes.com.au

2. HAZARD IDENTIFICATION

GHS classification of the substance:	Not a dangerous substance or mixture according to the criteria of GHS.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Name	CAS Number	Proportion (by weight)
Biological:	Rhizobium / Bradyrhizobium / Sinorhizobium / Mesorhizobium spp.	Not Applicable	>10 ¹⁰ cfu/g
Chemical:	Peat (carrier)	Not Applicable	60 %
	Water (Moisture)	Not Applicable	30-35 %
	Limestone	1317-65-3	<5 %
	Silica	14808-60-7	<5 % (impurity)

4. FIRST AID MEASURES

General advice:	If poisoning occurs contact a doctor or Poisons Information Centre - Phone 131126.
Inhalation:	Remove the affected person from exposure and move to fresh air. Should irritation occur, seek medical advice.
Ingestion:	Rinse mouth and then drink plenty of water. Should irritation occur, seek medical advice.
Skin:	Remove and wash contaminated clothing before reuse. Should irritation occur, seek medical advice.
Eyes:	Flush eyes with flowing water for at least 15 minutes. Should irritation occur, seek medical advice.

5. FIRE

Protection against fire and explosions:	No special requirements
Suitable fire extinguishing media:	Water, foam
Non-suitable media:	None
Special exposure hazards:	None

6. ACCIDENTAL RELEASE MEASURES

Spills & disposal:	Avoid concentrated spillage from entering drains or watercourse. Remove for disposal in accordance with local waste management. Use suitable containers for disposal. Wash contaminated clothing.
Personal protection:	Use personal protective clothing. Avoid contact with skin and eyes.
Environmental precautions:	Review local regulations before release to the environment.

7. HANDLING AND STORAGE

Handling:	Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure. When using do not eat, drink or smoke. Hands and/or face should be washed before and the at the end of the shift. Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks.
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Storage: Store in a refrigerator or in a cool room. Keep away from food, drink and animal feeds.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limit values:	WSA exposure limits - None established
Biological limit values:	None established
Appropriate engineering controls:	Ensure that adequate ventilation is provided. Avoid generating and inhaling dusts.
Personal protective equipment:	Handle in accordance with good industrial hygiene and safety practice that reduce operator exposure to the product. Wearing a closed work clothing and disposable gloves are recommended. Store work clothing separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black moist powder
Composition:	> 1 x 10 ¹⁰ cfu/g viable Rhizobium / Bradyrhizobium / Sinorhizobium / Mesorhizobium spp. in a milled sterile peat carrier
Odour:	Mild odour
Solubility in water:	Insoluble
Boiling point / Range:	Not applicable
pH:	6 - 7
Evaporation rate:	Not applicable
Vapour pressure:	Not applicable
Specific gravity:	0.7
Particle size:	< 100 µm
Flash point:	Not applicable
Flammability:	Non flammable, based on its structure or composition

10. STABILITY AND REACTIVITY

Conditions to avoid:	Use only as directed. Store in accordance with directions given in Section 7 (Handling and storage) of this MSDS.
Hazardous reactions:	This material is stable under normal conditions of storage and use.

11. TOXICOLOGICAL INFORMATION

Inhalation:	Prolonged inhalation may lead to respiratory tract irritation.
Eye:	Prolonged or repeated exposure may cause irritation.
Skin:	Prolonged or repeated exposure may cause irritation, redness and inflammation.
Effects of overexposure:	Long term exposure may cause irritation of the eyes, skin and respiratory tract.
Existing conditions:	May provoke asthmatic response in persons with asthma.
Carcinogenicity:	No information available

12. ECOLOGICAL INFORMATION

Product is believed to be not dangerous to the environment with respect to persistence, degradability mobility, bioaccumulative potential, aquatic toxicity and other data relating to ecotoxicity.

13. DISPOSAL CONSIDERATIONS

In accordance with current local authority regulations.

14. TRANSPORT INFORMATION

UN NO.:	Not applicable
Sea:	Not applicable
Road / Rail:	Not applicable
Air:	Not applicable

15. REGULATORY INFORMATION

Poisons schedule:	Not scheduled
AICS (Australia):	Exempt

16. OTHER INFORMATION

DO NOT MIX WITH OTHER CHEMICALS. ALWAYS USE AS DIRECTED.

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of our knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but, is in no way an absolute authority. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Please consult the relevant legislation and regulations governing the use and storage of this type of product.

...End of MSDS...