

Material Safety Data Sheet

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Infosafe No™ LPY3X

Issue Date : April 2009

ISSUED by BIONUTRI

Product Name : **LEGUME RS**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name LEGUME RS
Product Code LERS
Company Name BioNutrient Solutions Pty Ltd
Address Shop 2, Waggamba Square, Lagoon Street
 Goondiwindi
 QLD 4390 Australia
**Telephone/Fax
 Number** Tel: (07) 4671 5811
 Fax: (07) 4671 0295
Recommended Use Biological liquid injection for agricultural use

2. HAZARDS IDENTIFICATION

**Hazard
 Classification** HAZARDOUS SUBSTANCE.
 NON-DANGEROUS GOODS.
 Hazard classification according to the criteria of NOHSC.
 Dangerous goods classification according to the Australia Dangerous Goods
 Code.
Risk Phrase(s) R36/38 Irritating to eyes and skin.
Safety Phrase(s) S2 Keep out of reach of children.
 S24/25 Avoid contact with skin and eyes.
 S26 In case of contact with eyes, rinse immediately with plenty of water and
 seek medical advice.
 S28 After contact with skin, wash immediately with plenty of water
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Calcium Plus		30-60 %
	Bioinoculate		30-60 %
Other Information	Raw materials include calcium hydroxide, citric acid and humic acid. Based on pH of the final product, it may contain only low amounts of these materials.		

4. FIRST AID MEASURES

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not
breathing. Seek medical attention.
Ingestion DO NOT induce vomiting. Immediately wash mouth out with water. If symptoms
persist seek medical attention.
Skin If skin or hair contact occurs, remove contaminated clothing and flush skin
and hair with running water. Seek medical attention.
Eye If in eyes, hold eyelids apart and flush the eyes continuously with running
water. Continue flushing for several minutes until all contaminants are washed
out completely. Seek medical attention.
First Aid Facilities Eye wash fountain, safety shower and normal washroom facilities.
Advice to Doctor Treat symptomatically.
Other Information For advice in an emergency, contact a Poisons Information Centre (Phone
Australia 13 1126) or a doctor at once.

5. FIRE FIGHTING MEASURES

**Suitable
 Extinguishing Media** Use extinguishing measures appropriate to local circumstances and surrounding
environment.

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Hazards from Combustion Products	Under fire conditions this product may decompose and emit toxic and/or irritating fumes, smoke and gases including carbon monoxide and carbon dioxide.
Specific Hazards	The product is not combustible, but under fire conditions, the non-aqueous components may decompose and/or burn after the water component evaporates. Containers may rupture/explode under fire-conditions.
Precautions in connection with Fire	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes and products of combustion. Water spray may be used to cool down heat-exposed containers. If safe to do so, remove containers from path of fire. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Stop the leak if safe to do so. Increase ventilation. If possible contain the spill. Collect the material and place into suitable labelled containers for subsequent recycling or disposal. If contamination of sewers or waterways occurs inform the local water authorities and EPA in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid inhalation of vapours and mists, and skin or eye contact. In the work environment: wear appropriate protective equipment to prevent exposure. Prevent the creation of vapours or mists in the work atmosphere and ensure adequate ventilation. Keep containers closed when not in use. Practice good personal hygiene, that is, always wash hands after handling, and before eating, drinking, smoking or using the toilet facilities.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No value is assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC) Australia. As with all chemicals, exposure should be kept to the lowest possible levels.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Provide sufficient ventilation to keep airborne levels as low as possible. Where vapours or mists are generated the use of a local exhaust ventilation system is recommended.
Respiratory Protection	If engineering controls are not effective then an approved respirator with a replaceable vapour/mist filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or goggles as appropriate should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as PVC or nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection,

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Body Protection use and maintenance.
Suitable protective workwear should be worn, e.g. cotton overalls buttoned at neck and wrist. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark viscous liquid.
Odour	Mild odour like soy sauce.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Suspension
Specific Gravity	1.23-1.26 at 26°C
pH Value	6.5-7.5
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not applicable
Flammability	Non-combustible liquid.
Auto-Ignition Temperature	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Extremes of temperature.
Incompatible Materials	Not available
Hazardous Decomposition Products	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material.
Inhalation	May be irritating to respiratory system.
Ingestion	Ingestion of this product may irritate the gastric tract causing nausea and vomiting.
Skin	Irritating to skin. Skin contact can cause redness, itching and swelling.
Eye	Irritating to eyes. On eye contact this product can cause tearing, stinging, blurred vision, and redness.
Chronic Effects	Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not available
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Persistence / Degradability Not available
Mobility Not available
Environ. Protection Prevent substance from entering the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations The disposal of the spilled or waste material must be done in accordance with applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information Not classified as Dangerous Good according to Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Regulatory Information Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule Not Scheduled
Hazard Category Irritant

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Creation: April 2009
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