

Material Safety Data Sheet

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Infosafe No™ LPYX1

Issue Date : April 2010

ISSUED by BIONUTRI

Product Name : **BIO777**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	BIO777
Product Code	BIO777
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 fertilizer for waterlogged crops.

2. HAZARDS IDENTIFICATION

Hazard Classification	HAZARDOUS SUBSTANCE. DANGEROUS GOODS. Hazard classification according to the criteria of NOHSC. Dangerous goods classification according to the Australia Dangerous Goods Code.
Risk Phrase(s)	R22 Harmful if swallowed. R38 Irritating to skin. R41 Risk of serious damage to eyes. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety Phrase(s)	S2 Keep out of reach of children. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye/face protection. S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Zinc Sulphate Heptahydrate	7446-20-0	<25 %
	Ferrous sulfate heptahydrate	7782-63-0	<25 %
	Ingredients determined not to be hazardous, including water.		Balance

4. FIRST AID MEASURES

Inhalation	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
Ingestion	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Skin	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
Eye	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical

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First Aid Facilities attention.
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 appropriate fire extinguisher for surrounding environment.

Special Protective Equipment for fire fighters Non combustible material.

Specific Hazards This product is non-combustible. However, following evaporation of aqueous component under fire conditions, the non-aqueous component may decompose and/or burn.

Hazchem Code +3Z

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to minimise exposure. Increase ventilation. If possible contain the spill. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using 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 exposure standards have been established for the mixture by the National Occupational Health & Safety Commission (NOHSC).

Biological Limit Values No biological limits allocated.

Engineering Controls Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable mist/particulate filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective

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Eye Protection Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances. Safety glasses with side shields, goggles or full-face shield as appropriate should be used. 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. 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, use and maintenance.

Body Protection Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Red brown liquid.
Odour	Not available
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Suspension
Specific Gravity	1.468 at 26°C
pH Value	5.0-5.5
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Flash Point	Not applicable
Flammability	Non-combustible
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	Not available
Flammable Limits - Upper	Not available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Extremes of temperature and direct sunlight. Heat and other sources of ignition.
Incompatible Materials	Not available.
Hazardous Decomposition Products	None
Hazardous Reactions	None

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Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information No toxicity data available for this product.

Inhalation Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Ingestion Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.

Skin May be irritating to skin. The symptoms may include redness, itching and swelling.

Eye Risk of serious damage to eyes. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.

Chronic Effects Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms. May cause long-term effects in the aquatic environment.

Persistence / Degradability Not available

Mobility Suspension in water.

Environ. Protection Do not discharge this material into waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Dispose of waste according to applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information This material is classified as a Class 9 (Miscellaneous Dangerous Goods) dangerous Goods according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Class 9 Dangerous Goods are incompatible in a placard load with any of the following:
- Class 1, Explosives (when the class 9 substance is a fire risk substance),
- Division 5.1, Oxidizing agents (when the class 9 substance is a fire risk substance), and
- Division 5.2, Organic peroxides (when the class 9 substance is a fire risk substance).

U.N. Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (CONTAINS ZINC SULPHATE HEPTAHYDRATE)

DG Class 9

Hazchem Code +3Z

Packing Group III

EPG Number 9C1

IERG Number 47

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15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	S6
Hazard Category	Harmful,Irritant,Dangerous for the environment

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Prepared: April 2010
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