

# Material Safety Data Sheet

CS: 1.5.25

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Infosafe No™ LPY3W

Issue Date : February 2011

ISSUED by BIONUTRI

Product Name : **CEREAL RS**

Not classified as hazardous according to criteria of NOHSC.

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** CEREAL RS  
**Product Code** CERS  
**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** Liquid injection agricultural fertilizer.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous according to criteria of NOHSC.  
 NON-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)** Not classified as hazardous according to criteria of NOHSC.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety Phrase(s)** 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.  
 S37/39 Wear suitable gloves and 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
	Manganese sulphate, monohydrate	10034-96-5	0-2 %
	Zinc sulphate heptahydrate	7446-20-0	0-2 %
	Copper sulphate, pentahydrate	7758-99-8	0-1 %
	Boron compounds	Proprietary	0-1 %
	1,3,5-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	0-0.1 %
	Ingredients determined not to be hazardous, including water.		To 100%

## 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. If symptoms develop seek 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 eyes continuously with running water. Continue flushing for several minutes until all contaminants are

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**First Aid Facilities** washed out completely. If symptoms develop and persist seek medical attention.  
Eyewash and normal washroom facilities.

**Advice to Doctor** Treat symptomatically.

**Other Information** For advice, contact a Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing media that are suitable for the surrounding combustible materials.

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

**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 contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

## 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), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, over-exposure to some chemicals may adversely affect health or result in aggravation of pre-existing medical conditions and/or allergic reactions and should be kept to the least possible levels.

**Biological Limit Values** No biological limit 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 Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make

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<b>Eye Protection</b>	any necessary changes for individual circumstances. Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
<b>Hand Protection</b>	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.
<b>Body Protection</b>	Suitable protective workwear should be worn, e.g. cotton overalls buttoned at neck and wrist. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown liquid.
<b>Odour</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Suspension
<b>Specific Gravity</b>	1.15
<b>pH Value</b>	3.5-4.0
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Flash Point</b>	Not applicable
<b>Flammability</b>	Non-combustible liquid.
<b>Auto-Ignition Temperature</b>	Not applicable
<b>Flammable Limits - Lower</b>	Not applicable
<b>Flammable Limits - Upper</b>	Not applicable

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions of handling and storage.
<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight. Heat and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Hazardous Reactions</b>	Not applicable.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Toxicology Information</b>	No toxicity data available for this material.
<b>Inhalation</b>	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

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**Ingestion** Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

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

**Eye** May be irritating to eyes. The symptoms may include redness, itching and tearing.

**Chronic Effects** Not available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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 Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).

## 15. REGULATORY INFORMATION

**Regulatory Information** Not 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 Medicines and Poisons (SUSMP).

**Poisons Schedule** Not Scheduled

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Prepared: February 2011  
Supersedes: March 2010

...End Of MSDS...

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