

# Material Safety Data Sheet

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Infosafe No™ LPYCW

Issue Date : September  
2009

ISSUED by BIONUTRI

Product Name : **PHOSLOGIC**

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** PHOSLOGIC  
**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 foliar fertiliser.

## 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.  
R35 Causes severe burns.

**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.  
S45 In case of accident or if you feel unwell seek medical advice immediately

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Phosphorous Acid	13598-36-2	10-<30 %
	Other ingredients determined not to be hazardous, including water.		To 100%

**Other Information** Raw materials also include basic chemicals such as calcium hydroxide. Based on pH of the final product, it may contain only traces 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. Seek medical attention.

**Skin** Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap for 15 minutes. Ensure contaminated clothing is washed before re-use or discard. 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 extinguishing measures appropriate to local circumstances and surrounding environment.

**Hazards from Combustion Products** Under fire conditions this product may decompose and emit toxic and/or irritating fumes, smoke and gases including carbon monoxide, carbon dioxide and oxides of nitrogen.

**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.

**Hazchem Code** 4W

**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** Corrosive liquid. 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.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling** Corrosive liquid. Attacks skin and eyes. May produce severe burns. Wear suitable protective clothing, gloves and eye/face protection when mixing and using. Use in designated areas with adequate ventilation. Avoid breathing in vapours, mist or fumes. Keep containers closed when not in use. Ensure a high level of personal hygiene is maintained when using this product, 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. Store away from oxidising agents and bases/acids. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area. Store in original packages as approved by manufacturer. For information on the design of the storeroom, reference should be made to Australian Standard AS 3780-1994 The storage and handling of corrosive substances. Reference should also be made to all State and Federal regulations.

**Corrosiveness** Corrosive to aluminium

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**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, 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 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, use and maintenance.

**Body Protection** 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

**Appearance** Very light orange liquid.

**Odour** Odourless.

**Melting Point** Not available

**Boiling Point** Not available

**Solubility in Water** 100% Soluble

**Specific Gravity** 1.30-1.40 at 26°C

**pH Value** <3.0

**Vapour Pressure** Not available

**Vapour Density (Air=1)** Not available

**Flash Point** Not applicable

**Flammability** Non-combustible liquid.

**Auto-Ignition Temperature** Not applicable

**Flammable Limits - Lower** Not applicable

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Flammable Limits - Not applicable  
Upper

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions of handling and storage.

**Conditions to Avoid** Extremes of temperature. Corrosive to aluminium.

**Incompatible Materials** Strong bases and oxidising agents.

**Hazardous Decomposition Products** Thermal decomposition may result in the release of toxic and/or irritating fumes including carbon monoxide, carbon dioxide and oxides of nitrogen.

**Hazardous Polymerization** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** No toxicity data available for this material.

**Inhalation** Inhalation of mists or vapours can result in respiratory irritation and possible harmful corrosive effects including lesions of the nasal septum, pulmonary edema, pneumonitis and emphysema.

**Ingestion** Harmful if swallowed. Ingestion of this product can cause nausea, vomiting, abdominal pain and chemical burns to the mouth, throat and stomach.

**Skin** Causes severe burns. Corrosive to the skin. Skin contact can cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction.

**Eye** Corrosive to eyes - contact can cause corneal burns. Contamination of eyes can result in permanent injury. Eye contact with vapour or liquid can cause stinging, blurring tearing, severe pain and possible permanent eye damage and blindness.

**Chronic Effects** Not available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Not available

**Persistence / Degradability** Not available

**Mobility** Not available

**Bioaccumulative Potential** Not available

**Environ. Protection** Avoid contaminating waterways.

## 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** Australia:  
This material is classified as a Class 8 (Corrosive Substances) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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Class 8 Dangerous Goods are incompatible in a placard load with any of the following:

- Class 1, Explosives
  - Class 4.3, Dangerous When Wet Substances
  - Class 5.1, Oxidising Agents
  - Class 5.2, Organic Peroxides
  - Class 6, Toxic and Infectious Substances, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids
  - Class 7, Radioactive Substances
- and are incompatible with food and food packaging in any quantity.

**U.N. Number** 1760

**Proper Shipping Name** CORROSIVE LIQUID, N.O.S. - (CONTAINS PHOSPHOROUS ACID)

**DG Class** 8

**Hazchem Code** 4W

**Packaging Method** 3.8.8

**Packing Group** III

**EPG Number** 8A2

**IERG Number** 37

## 15. REGULATORY INFORMATION

**Regulatory Information** Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Classified as a Scheduled Poison S5 according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**Poisons Schedule** S5

**Hazard Category** Harmful, Corrosive

## 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Created: September 2009

...End Of MSDS...

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