

GROWGREEN PHOSCAL

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Date of Issue: May 2020

1. PRODUCT AND COMPANY INFORMATION

Product Name: GrowGreen Phoscal
Other Names: Not Applicable
Recommended use: Liquid fertiliser
Supplier's details:
 Company: GrowGreen Pty Ltd
 Contact Person: Dr Pau Vila
 Address: 6089 Cunningham Hwy
 Kalbar Qld 4309, Australia
 Telephone Number: 61 7 54639900
 Facsimile Number: 61 7 54639800
 Web Site: <http://growgreenfertiliser.com>
Emergency phone number: 61 7 54639900

2. HAZARDS IDENTIFICATION

This product is not a dangerous good under the Australian Dangerous Goods Code Edition 7.3 (2014).

This product is classified as hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances 3rd edition.

Risk Phrases: R35 Causes severe burns

Safety Phrases: Not Applicable

This product is classified as hazardous according to the classification criteria of the GHS Hazardous Chemical Information List

GHS Hazard Category	Pictogram Codes & Signal Word	Hazard Statement Codes	Hazard Statements
Acute toxicity – category 4	GHS05	H302	Harmful if swallowed
Skin corrosion – category 1A	GHS07 "Danger"	H314	Causes severe skin burns and eye damage

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Description: GrowGreen Phoscal is a liquid agricultural fertiliser to be diluted with water.

Ingredients	CAS No.	Concentration Range
Phosphorous Acid	13598-36-2	Not > 15%
Calcium salts	Not Applicable	Not >10%
Non-toxic excipients	Not Applicable	Not > 1.5%
Trace elements	Not Applicable	Not >1%
Water	Not applicable	To 100%

4. FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre (Telephone Australia 13 11 26).

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However the following additional information is provided for assistance in emergencies while seeking medical assistance:

Eyes:	May cause eye irritation. If in eyes, flush eyes with running water for at least 15 minutes, keeping eyelids open as a precaution. Obtain medical attention if irritation persists.
Skin:	Wash contaminated skin with soap and water.
Ingestion:	The product is non toxic if swallowed and no treatment is normally required.
Inhalation:	Seek medical advice if inhaled.

5. FIRE FIGHTING MEASURES

This product is non-flammable

Suitable Extinguishing Media:	Not Applicable. Use media suitable for surrounding fire
Specific Hazards:	None known
Special protective equipment and precautions for fire fighters:	Use media and equipment suitable for surrounding fire
Hazchem Code:	None allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures	Wear suitable personal protective equipment as described in section 8.
Environmental precautions:	Do not allow product to enter streams, rivers or other waterways, since washing fertilisers into waterways may upset nutrient balances.
Methods and materials for containment and cleaning up:	Contain spill with sand, diatomaceous earth, soda ash, or other absorbent material. Load absorbed mixture into suitably labelled containers for disposal. The material collected can be disposed of at an approved local authority landfill site.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Open and handle containers with care. Observe good personal hygiene practices and recommended procedures. Wash hands thoroughly after handling.
Precautions for Safe Storage, including any incompatibilities:	Product quality may be compromised by exposure to above-ambient temperatures and ultraviolet light. To preserve product quality, store in a cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	No exposure standards set
Biological Limit Values:	No biological limit value allocated
Engineering Controls:	None required

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Personal Protective Equipment: It is recommended that the user avoid eye contact and repeated or prolonged skin contact by wearing overalls, chemical goggles and impervious gloves when mixing or applying this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, caramel coloured, free-flowing liquid
Boiling Point: Not available
Melting Point: Not available
Vapour Pressure: Not available
Specific Gravity: 1.26 @ 25°C
Flashpoint: Not available
Flammability Limits: Not available
Solubility in Water: This product is water based

10. STABILITY AND REACTIVITY

Chemical Stability: Stable
Conditions to avoid: None known
Incompatible materials: None known
Hazardous decomposition products: None known
Hazardous reactions: Hazardous polymerisation will not occur

11. TOXICOLOGICAL INFORMATION

Toxicological Data: The oral median lethal dose (LD₅₀) for 10% phosphonic [phosphorous] acid in water is 1.5 grams of pure acid/kg body weight. This places the technical active ingredient in Class III of the World Health Organisation classification. Class III is the "slightly hazardous" class and phosphonic [phosphorous] acid is at the very low end of the scale within this class. Twenty percent (20%) and forty percent (40%) products have been formulated to eliminate the very slight poisonous and corrosive properties of the technical active ingredient.

Furthermore, the formulated products are safer than the technical active ingredient because they are neutralised with calcium phosphite. Phosphite has a pH of 5.7-6.0 which is comparable with that of the skin and therefore will not cause dermal irritation and is not corrosive to the skin or eyes. Contact with the skin is likely to cause only mild irritation to cuts or mucous membranes.

The LD₅₀ for a 200 g/L product is of the order of 23.6 grams/kg bodyweight and is classified as "not poisonous" by Australia's National Health and Medical Research Council.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Estimated LD₅₀ to fish is approximately 1.5 g/l.
The chemical is not broken down in animals and is excreted in the normal way.
In the soil phosphite is slowly broken down to phosphate by microflora.
The acid pH lowers the likelihood of phytotoxicity in plants.
Application of phosphite to native plant species generally does not

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cause chemical leaf burning when applied at recommended rates. Higher rates or treatments applied under unfavourable environmental conditions, or at flowering, are likely to result in chemical burning of foliage and can affect the reproductive capabilities of sprayed plants. Species vary in their susceptibility to chemical burning, with certain eucalypt species being amongst those most likely to suffer leaf-burning.

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

Other Adverse Effects:

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers: Contain spill with sand, diatomaceous earth, soda ash, or other absorbent material. Load absorbent mixture into suitably labelled containers for disposal.

Physical/chemical properties that may affect disposal options:

Effects of sewage disposal:

Special precautions for landfill or incineration:

Obtain instructions from your local government authority for disposal of unwanted product and material collected from spill clean up.

14. TRANSPORT INFORMATION

This product is not a dangerous good under the Australian Code for the Transport of Dangerous Goods (ADG) Edition 7.3 (2014) and does not require any special transport conditions.

15. REGULATORY INFORMATION

This product is subject to fertiliser regulations in the various States of Australia. These regulations prescribe matters such as labelling requirements, maximum permitted levels of harmful substances and standards with which fertilisers must comply.

16. OTHER INFORMATION

Prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011 (Safe Work Australia)

Date of last revision of the SDS: May 2020

CONTACT POINT

Dr Pau Vila

Phone: B/Hrs 61 7 54639900

A/Hrs 61 7 54639900

References:

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for Agricultural and Veterinary Chemicals, Edition 4/2014
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)

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3. Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, December 2011
4. AICS (Australian Inventory of Chemical Substances), Safe Work Australia
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, Version 4.1, July 2007
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, December 2008
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 7.3 Edition
8. Standard for the Uniform Scheduling of Medicines and Poisons, National Drugs and Poisons Schedule Committee
9. Hazardous Substances Information System, Safe Work Australia

This SDS summarises to our best knowledge at the date of issue, the chemical, health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Grow Green Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Grow Green Pty Ltd direct at the contact details on page 1.
