

CalPhos™

Section 1: Identification of the Substance or Mixture and of the Supplier

Product name:	CalPhos
Recommended use:	Calcium phosphate fertiliser
Company details:	GroChem (AgriNova New Zealand Limited) 15 Sunlight Grove Porirua New Zealand
Telephone:	+64 4 237 0905
Email:	grochem@grochem.com
Emergency telephone:	New Zealand 0800 CHEMCALL – 24 hours (0800 243 6225) Australia 1800 127 406 Other locations +64 4 917 9888 or The National Poisons Centre 0800 POISON (0800 764 766)
Date of preparation:	29 August 2017

Section 2: Hazards Identification

Hazard classification (Transport):	Class 8, packing group III.
Hazardous substances (HSNO):	6.1E (WARNING: May be harmful if swallowed) 8.1A (WARNING: May be corrosive to metals) 8.2C (DANGER: Causes severe skin burns and eye damage) 8.3A (DANGER: Causes serious eye damage)



Section 3: Composition/Information on Ingredients

Classification & type:		
Material	CAS No.	Proportion (%w)
Phosphoric Acid	7664-38-2	10-20%
Calcium Phosphates		25-30%
Non-hazardous components		to 100%

Section 4: First Aid Measures

Symptoms of exposure:	No adverse health effects expected if the product is handled in accordance with this SDS and the product label. Symptoms that may arise if the product is mishandled are:
If Swallowed	Unlikely, but large quantities will cause abdominal pains and burning.

If in Eyes	Causes serious eye damage.
If on Skin	Causes severe skin burns.
If Inhaled	Mists may be discomforting to the respiratory tract and prolonged contact may lead to breathing difficulty.
First aid actions:	Immediately call a POISON CENTRE or doctor/physician. If medical advice is needed, have product container or label at hand.
If Swallowed	Rinse mouth. Do NOT induce vomiting.
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on Skin (or Hair)	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
If Inhaled	Remove to fresh air and keep at rest in a position comfortable for breathing.
Workplace facilities:	Eye wash and safety shower.
Notes for medical personnel:	Treat for exposure to acid.

Section 5: Fire Fighting Measures

Type of Hazard:	Corrosive, non-flammable. Will form flammable hydrogen gas on contact with metals.
HAZCHEM code:	2X
Combustion products:	Possible formation of poisonous gases including Phosphorus oxides.
Extinguishing media & methods:	Keep containers cool with water fog or mist when exposed to fire.
Recommended protective clothing:	Wear full protective clothing including breathing apparatus.

Section 6: Accidental Release Measures

Personal protection:	See Section 8.3 for appropriate PPE.
Containment and clean up:	May be neutralised with lime. Contain and absorb spillage to prevent material damage. Rinse contaminated area with water and absorb rinsate.
Special requirements:	See Section 13 for instructions for the disposal of waste/contaminated material. An Emergency Response Plan is required for quantities of 10,000L or more.

Section 7: Handling and Storage

Subsection 1:	Handling
Handling practices	Wear appropriate PPE as detailed in Section 8.3. Keep out of reach of children. Read label before use.
Subsection 2:	Storage
Site requirements	Store locked up in original container. Bundling is required for quantities greater than 10,000L.
Packaging	Keep only in original container.

Section 8: Exposure Controls/Personal Protection

Subsection 1:	Workplace Exposure Guidelines (may also be considered in section 2)
Workplace exposure standards	No exposure limits have been set.
Exposure standards outside the workplace	No exposure limits have been set.

Subsection 2:

Exposure control measures

Engineering Controls

 Avoid unnecessary generation of mist or fog. Do not breathe mist.
 Use plastic or stainless steel fittings.

Subsection 3:

Detail specifications for equipment

Personal Protective Equipment (PPE)

Wear protective gloves; wear full face protection; and apron or body protection.

General hygiene

Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Clear, yellow liquid	pH	2.5
Odour	-	Boiling point (degC)	100
Specific gravity (kg/L)	1.285	Freezing point (degC)	Not available
Solubility	Infinite in water	Flammability Information	-
Vapour density	Water	Flashpoint (degC)	Not flammable
Vapour pressure	Water		

Further properties: Corrosive to ferrous metals, aluminium, concrete.

Section 10: Stability and Reactivity

Stability of substance:	Stable.
Material to avoid:	Avoid contact with alkali materials and oxidising agents (Class 5).
Hazardous decomposition products:	Toxic gases may be released in a fire (see Section 5).
Hazardous polymerization:	Will not occur.

Section 11: Toxicological Information

Data and interpretation:	No toxicological data is known. See Section 2 for general hazard information.
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Section 12: Ecological Information

Potential environmental interactions:	Hazardous to living organisms and may dissolve some soil matter. Natural minerals will eventually reduce acidity, however, the phosphate may persist indefinitely.
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Section 13: Disposal Considerations

Product disposal:	May be neutralised with lime. Dispose in landfill with authorisation.
Container disposal:	Triple-rinse container into the spray tank. Crush and bury at an approved landfill.

Section 14: Transport Information

UN Number:	3264
DG Class and Subsidiary Group:	8
Proper shipping name:	Corrosive Liquid, Acidic, Inorganic, NOS
Packing group:	III
HAZCHEM code:	2X
Special precautions:	Segregate from oxidising substances (Class 5) and Foodstuffs. Do not carry on the same vehicle as Explosives (Class 1) or Radioactive (Class 7) substances. Do not carry more than 1L on a passenger service vehicle.

Section 15: Regulatory Information

Regulatory status: This product is approved under Fertilisers (Corrosive) Group Standard 2006 of the HSNO Act 1996. See www.epa.govt.nz for approval conditions. Approval number HSR002569.

HSNO Trigger Quantities:

SDS	Any quantity
Signage	1000L
Bunding	10,000L
Emergency plan	10,000L

Section 16: Other Information

Revision due: 29 August 2022.

Additional information: Directions for use are found on the product label.

Glossary:

CAS	Chemical Abstract Services Number, used to uniquely identify chemical compounds
EPA	Environmental Protection Agency
HSNO	Hazardous Substances and New Organisms (legislation 1996)
PPE	Personal Protective Equipment

This SDS summarises our best knowledge of the health and safety hazard information available for this product and how to safely handle and use it. Since the use of this information and the conditions of the use of this product are not under the control of Grochem, it is the user's responsibility to determine conditions of safe use of the product.