



# MATERIAL SAFETY DATA SHEET

## Calphos™

Date of Issue: January 01, 2011

### 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

**Product Name:** Calphos™

**Recommended Use:** Calcium Phosphate Fertiliser

**Supplier:** Campbells Fertilisers Australasia

**Address:** 18 Raymond Road, Laverton North, Victoria, 3026

**Telephone:** (03) 9931 2211

**Facsimile:** (03) 9931 2201

**Website:** [www.campbellsfert.com.au](http://www.campbellsfert.com.au)

**Emergency Telephone Number:** (03) 9931 2211 (business hours only 8.30 am to 5.00 pm)

### 2. HAZARDS IDENTIFICATION

#### NON-HAZARDOUS SUBSTANCE - DANGEROUS GOOD

**Hazard Classification:** Not classified as a hazardous substance according to the criteria of NOHSC

**Risk Phrases:** None allocated

**Safety Phrases:** None allocated

**ADG Classification:** Classified as a Dangerous Good Class 8 according to the Australian Dangerous Goods Code  
Class 8 Corrosive

**SUSDP Classification:** Schedule 5

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| <i>Classification and type: Mixture</i> |             |                    |
|---|-------------|--------------------|
| Material:                               | CAS Number: | Proportion (%w/w): |
| Phosphoric Acid                         | 7664-38-2   | 10-20%             |
| Calcium Phosphates                      | -           | 25-30%             |
| Non-Hazardous Components                | -           | To 100%            |

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#### 4. FIRST AID MEASURES

##### Symptoms of Exposure

No adverse health effects expected if the product is handled in accordance with this MSDS and the product label. Symptoms that may arise if the product is mishandled are:

- Inhalation:** Mists may be discomforting to the respiratory tract and prolonged contact may lead to breathing difficulty.
- Skin Contact:** May cause irritation and burning. Prolonged or repeated contact may lead to dermatitis.
- Eye Contact:** Will cause eye irritation and may cause eye damage if not washed out immediately. Prolonged and repeated contact of the eyes may lead to permanent damage.
- Ingestion:** Unlikely, but large quantities may cause abdominal pains and burning.

##### First Aid Actions

Immediately call a Poison Centre or doctor/physician.

- Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin Contact:** Remove/ take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Ingestion:** Rinse Mouth. Do NOT induct vomiting.
- First Aid Facilities:** Eye wash bottles and copious quantities of water should be available.
- Notes for Medical Personnel** Treat for exposure to acid.

#### 5. FIRE FIGHTING MEASURES

- Type of Hazard:** Corrosive. Non-flammable.  
Will form flammable hydrogen gas on contact with metals
- HAZCHEM Code:** 2X
- Extinguishing Media & Methods:** Keep containers cool with water fog or mist when exposed to fire.
- Hazards from Combustion Products:** Possible formation of poisonous gasses including Phosphorus oxides.
- Recommended Protective Clothing:** Wear full protective clothing including breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

|                                  |  |
|----------------------------------|--|
| <b>Containment and Clean Up:</b> | May be neutralised with lime. Contain and absorb spillage to prevent material damage. Rinse contaminated area with water and absorb rinsate. |
| <b>Personal Protection:</b>      | See section 8 for appropriate PPE  |
| <b>Special Requirements:</b>     | Use Section 13 for instructions for the disposal of waste/contaminated material.   |

#### 7. HANDLING AND STORAGE

|                  |   |
|------------------|---|
| <b>Handling:</b> | Wear appropriate PPE as detailed in Section 8   |
| <b>Storage:</b>  | <i>Store Site Requirements:</i><br>Store locked up<br><i>Packaging:</i><br>Keep only in original container. |

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                       |  |
|---------------------------------------|--|
| <b>Exposure Guidelines</b>            | No exposure standards have been set.   |
| <b>Engineering Controls:</b>          | Avoid unnecessary generation of mists and fog. Do not breathe mist. Use plastic or stainless steel fittings.                                   |
| <b>Personal Protective Equipment:</b> | Wear protective gloves; wear full-face protection; and apron or body protection.<br><i>General Hygiene:</i><br>Wash thoroughly after handling. |

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                |   |
|--------------------------------|---|
| <b>Appearance:</b>             | Clear, yellow liquid                              |
| <b>Odour:</b>                  | -   |
| <b>Specific Gravity:</b>       | 1.285   |
| <b>Boiling Point:</b>          | 100   |
| <b>Freezing/Melting Point:</b> | Not available                                     |
| <b>Solubility:</b>             | Infinite in water.                                |
| <b>pH:</b>                     | 2.5   |
| <b>Vapour Pressure:</b>        | Water   |
| <b>Vapour Density:</b>         | Water   |
| <b>Flashpoint (degC):</b>      | Not flammable                                     |
| <b>Further Properties:</b>     | Corrosive to ferrous metals, aluminium, concrete. |

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### 10. STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Chemical Stability:</b>               | Stable  |
| <b>Hazardous Polymerisation:</b>         | Will not occur  |
| <b>Incompatible Materials:</b>           | Avoid contact with alkali materials and oxidising agents (DG Class 5) |
| <b>Hazardous Decomposition Products:</b> | Toxic gases may be released in a fire (see Section 5)                 |

### 11. TOXICOLOGICAL INFORMATION

|                       |   |
|-----------------------|---|
| <b>Toxicity Data:</b> | No toxicological data available.  |
| <b>Health Effects</b> | May be harmful if swallowed<br>May cause severe skin burns<br>Causes serious eye damage |

### 12. ECOLOGICAL INFORMATION

|  |  |
|--|--|
| <b>Potential Environmental Interactions:</b> | Hazardous to living organisms and may dissolve some soil matter. Natural minerals will eventually reduce acidity however the phosphate may persist indefinitely. |
|--|--|

### 13. DISPOSAL CONSIDERATIONS

|                            |   |
|----------------------------|---|
| <b>Product Disposal:</b>   | May be neutralised with lime. Dispose in landfill with authorisation.               |
| <b>Container Disposal:</b> | Triple-rinse container into the spray tank. Crush and bury at an approved landfill. |

### 14. TRANSPORT INFORMATION

|                                      |   |
|--------------------------------------|---|
| <b>UN Number:</b>                    | 3264                                    |
| <b>Proper Shipping Name:</b>         | Corrosive Liquid Acidic, Inorganic, NOS |
| <b>DG Class and Subsidiary Risk:</b> | 8                                       |
| <b>Packing Group:</b>                | III                                     |
| <b>HAZCHEM Code:</b>                 | 2X                                      |



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**Special Precautions:** Segregate from Oxidising substances (Class 5) and Foodstuffs.  
Do not carry on the same vehicle as Explosive (Class 1) or Radioactive (Class 7) substances.  
Not to be carried on a Passenger Service Vehicle.

#### 15. REGULATORY INFORMATION

**Regulatory Status:** Fertilizers do not require registration in Australia

#### 16. OTHER INFORMATION

**Edition:** Initial version  
**Revision Due:** 19 February 2015  
**Reason for Revision:** -  
**Additional Information:** Directions for use are found on the product label.

#### Glossary:

**CAS** Chemical Abstract Services Number, used to uniquely identify chemical compounds  
**LD<sub>50</sub>** Lethal dose to kill 50% of test animals or organisms  
**NOHSC** National Occupational Health and Safety Commission  
**PPE** Personal Protective Equipment  
**SUSDP** Standard for the Scheduling of Drugs and Poisons

This MSDS 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 Campbells Fertilisers, it is the user's responsibility to determine conditions of safe use of the product.

END OF MSDS