



SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

1. IDENTIFICATION

Product Identifier: Campbells Solu-Mag

Other Means of Identification: Magnesium sulphate heptahydrate

Recommended Use of the Chemical and Restrictions on Use: Fertiliser, industry

Details of Manufacturer or Importer: Campbells Fertilisers Australasia
18 Raymond Road, Laverton North, Victoria, 3026
Phone: (03) 9931 2211
Fax: (03) 9931 2201
www.campbellsfert.com.au

Emergency Telephone Number: (03) 9931 2211 (business hours only 8.30 am to 5.00 pm)
0418 350 726 (after business hours)

2. HAZARD(S) IDENTIFICATION

GHS Classification: Not classified as hazardous according to the criteria of GHS.

ADG Classification: Based on available information, not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

SUSMP Classification: Not scheduled

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Component:	CAS Number:	Proportion (%w/w):
Magnesium sulphate	7487-88-9	>99.5
Magnesium oxide	1309-48-4	>16.3
Sulphur	7704-34-9	>13
Magnesium	7439-95-4	>9.8
Chlorine	7778-54-3	<0.012
Iron	1327-41-9	<0.0002%
Lead	7440-69-9	Not detected
Arsenic	121-19-7	Not detected

SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

4. FIRST AID MEASURES

Description of Necessary First Aid Measures:

- Inhalation:** Remove casualty to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
- Skin Contact:** Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.
- Eye Contact:** Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
- Ingestion:** Never give anything by mouth to an unconscious person. If person is conscious, rinse mouth thoroughly with water and then give 2-4 cupfuls of water or milk to drink. Do not induce vomiting. Seek medical attention if more than a small quantity has been swallowed or there is pain or difficulty with swallowing.
- First Aid Facilities:** Ensure washing facilities, including an eyewash, are available and maintained.

Symptoms caused by Exposure:

- Inhalation:** High dust concentration of air-borne material may cause irritation to the nose and upper respiratory tract. Symptoms may include coughing and sore throat.
- Skin Contact:** Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin absorption have been recorded.
- Eye Contact:** May cause irritation, redness and pain following contact.
- Ingestion:** Ingestion of large amounts give rise to gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhea, irregular heartbeat and hypertension.

Medical Attention and Special Treatment:

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of calcium gluconate to precipitate the oxalate should be determined by only qualified medical personnel.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Equipment:** Use water spray, dry chemical, carbon dioxide, or appropriate foam. Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.
- Specific Hazards arising from the Chemical:** Material will not burn. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- Special Protective Equipment and Precautions for Fire Fighters:** Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	No data available
Methods and Materials for Containment and Cleaning Up:	Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in Section 8. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Conditions for Safe Storage, including any Incompatibilities:	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Incompatible substances include ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Standards:	None established
Biological Monitoring:	Not available.
Control Banding:	Not available.
Engineering Controls:	Use in well ventilated areas. Avoid high dust concentration. A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition for details.
Individual Protection Measures e.g. Personal Protective Equipment	Please observe the usual precautionary measures for handling of chemicals <i>Eye and Face Protection:</i> Wear chemical safety glasses <i>Skin Protection:</i>

SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

(PPE): Wear rubber or PVC gloves.
 Wear long sleeves and long trousers.
Respiratory Protection:
 Where dust is a problem use a P2 type canister respirator.
Thermal Hazards:
 None specified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Transparent crystals, or white powder
Odour:	No significant odour
Vapour Pressure (mm Hg):	Does not exert significant vapour pressure
Density:	Not available
Boiling Point:	Not available
Freezing/Melting Point:	Not available
Solubility (aqueous solution):	Very soluble
Specific Gravity:	Not available
pH (of a 10% solution):	5-8
Flash Point:	Not available
Flammability (explosive) Limits:	Not applicable
Auto-Ignition Temperature:	Not available
Octanol/Water Partition Coefficient:	Not available

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable under normal conditions of storage and handling. Loses some moisture on exposure to dry air at room temperature.
Possibility of Hazardous Reactions:	Not available
Conditions to Avoid:	Not available
Incompatible Materials:	Ethoxy ethyl alcohols, arsenates, phosphates, tartrates, lead, barium, strontium and calcium.
Hazardous Decomposition Products:	Oxides of sulphur and the contained metal.

SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

11. TOXICOLOGICAL INFORMATION

Toxicological Information of the Mixture:

Low toxicological effect. Use safe work practices to avoid eye or skin contact and dust inhalation.

There is no known effect from chronic exposure.

Acute Toxicity: No data available

Skin No data available

Corrosion/Irritation:

Serious Eye No data available

Damage/Irritation:

Respiratory or Skin No data available

Sensitisation:

Germ Cell No data available

Mutagenicity:

Carcinogenicity: No data available

Reproductive No data available

Toxicity:

Specific Target Organ No data available

Toxicity (STOT) -

Single Exposure:

Specific Target Organ No data available

Toxicity (STOT) -

Repeated Exposure:

Aspiration Hazard: No data available

Likely Routes Of Exposure

Inhalation: High dust concentration of air-borne material may cause irritation to the nose and upper respiratory tract. Symptoms may include coughing and sore throat.

Skin: Prolonged contact may cause some irritation, including redness and itching. No harmful effects from skin absorption have been recorded.

Eye: May cause irritation, redness and pain following contact.

Ingestion: Presents little toxicity, unless large amounts are ingested. Large amounts give rise to gastro-intestinal irritation, with symptoms such as nausea, vomiting and diarrhea, irregular heartbeat and hypertension.

Delayed and Immediate Effects from Short and Long Term Exposure:

Not available

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available but it is not anticipated to cause any adverse effects to plants or animals.

Persistence and No data available

SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

Degradability:
Bioaccumulative Potential: No data available
Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Product Disposal: Vacuum or wet sweep to avoid dust dispersal. Dispose of on a farm, or authorised waste facility in accordance with statutory requirements. In doing so, comply with state, federal and local regulations. Contact the manufacturer if additional information is required.

Container Disposal: Dispose of according to state, federal and local regulations.

14. TRANSPORT INFORMATION

Classification: Based on available information, not classified as Dangerous Goods for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition.

UN Number: None allocated

Proper Shipping Name or Technical Name: None allocated

Transport Hazard Class: None allocated

Packing Group: None allocated

Environmental Hazards for Transport Purposes: None allocated

Special Precautions for User: None allocated

HAZCHEM Code: None allocated

15. REGULATORY INFORMATION

SUSMP: Not scheduled

APVMA: Exempt from registration

State Departments of Agriculture / Primary Industries: Registration not required

Australian Inventory of Chemical All components listed



SAFETY DATA SHEET

Campbells Solu-Mag

Date of Issue: May 2016

Substances (AICS):
Toxic Substance – NZ Exempt

16. OTHER INFORMATION

Edition: Initial edition
Revision Due: May 2021
Reason for Revision: Initial version
Preparation Information: Prepared by Campbells Fertilisers Australasia
Data Sources: Supplier SDS
Trademark Information: Aqua-Fert is a Registered Trademark of Campbells Fertilisers Australasia

Glossary:

ACGIH American Conference of Government Industrial Hygienists
APVMA Australian Pesticides and Veterinary Medicines Authority
CAS Chemical Abstract Services number, used to uniquely identify chemical compounds
NOHSC National Occupational Health and Safety Commission
PPE Personal protective equipment
SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

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

END OF SDS