



ABN: 62 090 097 591

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## Product Name: Magnesium Oxide

Not Classified as Hazardous according to criteria of Worksafe Australia

### COMPANY DETAILS

Company Name:  
 Address:

Telephone/Fax:

Supplier:

TecEco Pty. Ltd.  
 Park 497 Main Road, Glenorchy  
 Tasmania 7010, Australia

PH: (02) 6382 1177 Fax: (02) 6382 4176

Manufacturer:

Causmag International  
 Park Avenue, Young,  
 NSW 2594

: (02) 6382 1177 Fax: (02) 6382 4176

### IDENTIFICATION

Product Grades:

Causmag AL3, AL4, AL6, AL7, AL8, SGW, TGM, XGM, PEXU 98, PEXU 99

Product Name:

Magnesium Oxide

Other Names:

Magnesia  
 Calcined Magnesia

Poison Schedule:

Not scheduled

Product Use:

Agricultural, chemical and pharmaceutical chemical

### PHYSICAL DATA

Appearance:

Fine, white odourless powder, granules or pellets

Melting Point:

2800<sup>0</sup> C

Boiling Point:

3600<sup>0</sup> C

Vapour Pressure:

Not applicable

Spec. Gravity:

3.58

Flash Point:

Not applicable

Molecular Formula:

MgO

Molecular Weight:

40.3044

Solubility in Water:

0.0086g @ 30<sup>0</sup> C

### OTHER PROPERTIES

Autoignition Temp:

Not applicable

pH Value:

10.3 (saturated solution)

Solubility in Organic Solvents:

Insoluble in alcohol

Stability:

Stable at room temperature in closed containers under normal storage and handling conditions

Haz. Polymerization:

Will not occur

Materials to Avoid:

Reacts violently with interhalogens such as chlorine trifluoride (ClF<sub>3</sub>) or bromine pentafluoride (BrF<sub>5</sub>). Reacts incandescently with phosphorus pentachloride (PCl<sub>5</sub>). Reacts exothermically with water to form magnesium hydroxide

### INGREDIENTS

Ingredients:

| Name            | CAS       | Proportion   |
|-----------------|-----------|--------------|
| Magnesium Oxide | 1309-48-4 | 96.00-99.00% |

Other Information:

Material may contain small amounts of:  
 Calcium Oxide  
 Silicon Dioxide  
 Iron Oxide  
 Aluminium Oxide

## HEALTH HAZARD INFORMATION

### HEALTH EFFECTS

Acute – Ingestion: Material has low oral toxicity. If large quantities are swallowed, may produce stomach irritation.

Acute – Eye: May cause physical irritation

Acute – Skin: Contact with skin may result in irritation. Not expected to cause sensitisation.

Acute – Inhalation: Inhalation of dust may result in respiratory irritation Repeated or Chronic prolonged exposure may lead to dry skin and subsequent irritation contact dermatitis

### FIRST AID

Ingestion: Rinse mouth with water. Give plenty of water to drink. If irritation develops, seek immediate medical advice

Eye: Wash eyes with large quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

Skin: Wash contaminated skin with plenty of soap and water. If irritation occurs seek medical advice

Inhalation: Remove person from exposure – avoid becoming a casualty. Seek medical advice if effects persist.

First Aid Facilities: Eye wash station should be made available for all chemicals in Workplace

### ADVICE TO DOCTOR

Advice to Doctor: Treat Symptomatically

### OTHER HEALTH HAZARD INFORMATION

Route(s) of Entry: Eye contact  
Skin contact  
Respiratory

### PRECAUTIONS FOR USE

| Exposure Limits: | Name | mg/m <sup>3</sup> | ppmTWA | TWA Footnote |
|------------------|------|-------------------|--------|--------------|
|------------------|------|-------------------|--------|--------------|

|  |                 |    |  |  |
|--|-----------------|----|--|--|
|  | Magnesium Oxide | 10 |  |  |
|--|-----------------|----|--|--|

Other Exposure: The above exposure limit refers to the magnesium oxide FUME refer  
Information: Fire/Explosion Hazard' for further information  
Exposure limits for possible contaminants are:

|                      | TWA                 |
|----------------------|---------------------|
| Calcium Oxide        | 2mg/m <sup>3</sup>  |
| Silicon Dioxide      | 10mg/m <sup>3</sup> |
| Iron Oxide (as fume) | 10mg/m <sup>3</sup> |
| Aluminium Oxide      | 10mg/m <sup>3</sup> |

TWA – The Time Weighted Average airborne concentrations over an eight-hour working day, for a five-day working week over an entire working life.

These exposure standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. Exposure Standards should not be used as fine dividing lines between safe and dangerous concentration of chemicals. They are not a measure of relative toxicity.

Engineering Controls: Use only in well ventilated areas, where the recommended exposure standards will be exceeded.

### PERSONNEL PROTECTION

Personal Protective: Avoid eye contact and repeated or prolonged skin contact. Wear Equipment overalls, safety glasses and PVC or Nitrile gloves. Avoid generating and inhaling dusts. If dust exists, wear dust respirator meeting the requirements of AS1715 and AS1716. Always wash hands before smoking, eating, drinking or using the toilet

### FLAMMABILITY

Fire Hazards: This material is not combustible or flammable

## SAFE HANDLING INFORMATION

### STORAGE AND TRANSPORT

Storage Precautions: Keep containers closed to prevent absorption of carbon dioxide and water from atmosphere. Keep dry. Avoid contact with interhalogens such as bromide pentafluoride or chlorine trifluoride. Avoid contact with acids.

Transport Information: Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail (5<sup>th</sup> Edition)

### SPILLS AND DISPOSAL

Spills and leaks: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and inhalation of dust. Sweep up, but avoid generating dust. Collect and seal in properly labelled drums for disposal. Wash area down with excess water

Disposal: Refer to State Land Waste Management Authority. Normally suitable for disposal at approved land waste site.

### FIRE/EXPLOSION HAZARD

Fire/Explosion Hazards: Not combustible

Hazardous: Decomposes on heating emitting toxic fumes of magnesium oxide.

Decomposition or By products: However, the temperature required to generate toxic fumes would be above 1200<sup>0</sup> C

Fire Fighting: Material is not combustible

Precautions: Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition

Extinguishing Media: Use extinguisher(s) suitable to fight surrounding fire Hazardous Reaction. Absorbs moisture and carbon dioxide from air. Violent reaction or ignition can occur when in contact with interhalogens (eg bromine pentafluoride, chlorine trifluoride) and acids

### OTHER INFORMATION

Toxicology Information: 1. TCLo; ROUTE: Inhalation; DOSE: 400mg/m<sup>3</sup>  
REFERENCE: 'Patty's Industrial Hygiene and Toxicology', 3<sup>rd</sup> rev.

Environmental Protection: Avoid contaminating waterways

### CONTACT POINT

Contact Person/Point: Causmag International  
Park Avenue, Young, NSW 2594  
Tel: (02) 6382 1177

After Hours Contact: Causmag International  
Park Avenue, Young, NSW 2594  
Tel: 0407 451 528

Important Advice: This MSDS summaries our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace, including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Causmag International.

End of MSDS    November 2004