

VETPAK SAFETY DATA SHEET

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

Product Name: Magnesium Oxide Ultrafine

Other names: Calcined Caustic Magnesia, Magnesium Oxide.

Recommended Use: Tailing treatment, sewerage treatment, stock feed, and fertiliser.

Company Details: Vetpak Ltd.

Address: 150 Rickit Road, Te Awamutu.

Telephone Number: (07) 870 2024

Emergency Telephone Number: (07) 870 2024 8.00am to 5.00pm Monday to Friday except public holidays. National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

Date of Preparation: 8th August 2008

Section 2: Hazards Identification

Hazards Classification: Not classified as hazardous, according to the criteria of ERMA New Zealand.

Section 3: Composition / Information on Ingredients:

INGREDIENTS:

Pure Substance	CAS Number	Proportion
Magnesium oxide	1309-48-4	>65%
Calcium oxide	1305-78-8	<15%
Iron oxide	1309-37-1	<0.5%
Aluminium oxide	1344-28-1	<0.2%
Silicon dioxide	14808-60-7	<5%
Manganese dioxide	1313-13-9	<0.1%

Note: typical analysis is Magnesium oxide 95 - 97%

Section 4: First Aid Measures:

Description of necessary first Aid measures:

Swallowed: Rinse mouth out with plenty of water. If irritation or discomfort persists, seek medical attention.

Skin: If product comes in contact with the skin, wash affected area with soap and water. Seek medical attention in the event of irritation.

Eye: This product is abrasive. If it comes in contact with the eyes, immediately hold the eyes open and wash continuously for at least 15 minutes with fresh running water. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Transport to doctor or hospital without delay. Removal of any contact lens after an eye injury should only be undertaken by skilled personnel.

Inhaled: If dust is inhaled, remove to fresh air. Encourage patient to blow nose to ensure clear breathing passages. Rinse mouth with water. Consider drinking water to remove dust from throat. If irritation or discomfort persists, seek medical attention.

Workplace Facilities: Eye bath and normal washroom facilities.



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Notes for Medical Personnel: Nil. The general effect of a large ingestion of magnesia is a purging of the body.

Section 5: Fire Fighting Measures

Type of Hazard: Not flammable.

Extinguishing Media & Methods: Use media appropriate to the surrounding fire.

Recommended Protective Clothing: Use protective clothing appropriate to the surrounding fire.

Section 6: Accidental Release Methods

Procedures to be covered:

Minor spills: Clean up all spills immediately. Wear impervious gloves and safety glasses. Avoid generating and breathing dust. Vacuum up or sweep up and place in a suitable container for disposal.

Major spills: Clear area of personnel and move up wind. Use dry clean up procedures. Avoid generating dust. If inhalation risk of exposure exists, wear SAA approved dust respirators. Collect recoverable product into labelled containers for recycling.

Section 7: Handling and Storage

Handling: No restrictions on transport.

Storage: Store in original containers. Keep containers securely sealed.

Store Site Requirements: Store in a cool, dry, well ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers from physical damage and check regularly for leaks.

Packaging: Multi-ply paper bag with sealed plastic liner or heavy gauge plastic bag. Check that all containers are clearly labelled and free from leaks. Metal cans or metal drums, or plastic containers with plastic liners.

Section 8: Exposure Controls / Personal Protection

Workplace Exposure Standards:

Vetmag Ultrafine: None assigned for mixture. Refer to individual constituents.

Magnesium Oxide: Dust not otherwise classified, as inspirable dust ES TWA: 10mg/m³.

Note: where heating or burning occurs, Worksafe Australia lists MgO fumes as a hazardous substance. MAK value: 6mg/m³ as magnesium oxide fumes. ES TWA: 10mg/m³. TLV TWA: 10mg/m³.

Calcium Oxide: TLV TWA: 2mg/m³. ES TWA: 2mg/m³. MAK value 5mg/m³ – measured as the inhalable fraction of the aerosol. MAK Category 1 Peak Limitation: For local irritants.

Silicon Dioxide: TLV TWA 0.1mg/m³ (respirable dust). ES TWA – none assigned. Notice of intended change: TLV TWA: 0.05mg/m³.

Engineering Controls: Use in a well-ventilated area. General exhaust is adequate under normal operating conditions. Correct fit is essential to ensure adequate protection.

Personal Protective Equipment (PPE):

Eye: Safety glasses with side shields; or as required, chemical goggles. Contact lenses pose a special



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hazard; soft lenses may absorb irritants and all lenses concentrate them.

Hands, Feet: Barrier creams and cotton gloves or PVC gloves. Safety footwear.

Other: No special equipment required when handling small quantities. Otherwise, overalls and eye wash units.

General hygiene: Wash hands after handling with soap and water. Do not eat, drink or smoke when handling this product.

Section 9: Physical and Chemical Properties

Physical State: Powder.

Appearance: White to pink crumbly material.

Boiling Point: 3600°C

Melting Point: 2600 - 2800°C

Vapour Pressure: Not applicable.

Specific Gravity: 1.2 (water = 1.0)

Flash Point: Not applicable.

Flammability Limits: Not applicable.

Solubility in Water: Insoluble 0.001%

Section 10: Stability and Reactivity

Stability of the Substance: Stable under normal conditions of storage.

Conditions to avoid: Avoid product getting wet.

Material to avoid: Not known.

Hazardous decomposition Products: Not known.

Hazardous polymerization: Does not occur.

Section 11: Toxicological Information

Acute Effects:

Swallowed: Considered an unlikely route of entry in commercial and industrial environments. The material is regarded as practically non-toxic but may be harmful if swallowed in large quantity. Oral administration would generally result in purging.

Skin: The material may be mildly irritating and may cause drying of the skin.

Eye: The dust is irritating and may be abrasive to the eyes.

Inhaled: Not normally a hazard due to the non-volatile nature of the product. The dust is irritating to the upper respiratory tract.

Long Term Effects: Principle routes of exposure are usually by inhalation of generated dust and skin contact. As with any chemical product, contact with unprotected bare skin; inhalation of vapours, mist or dust in workplace atmosphere; or ingestion in any form, should be avoided by observing good occupational work practices.

Section 12: Ecological Information



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Potential Environmental Considerations: The product is not considered hazardous to the environment.

Section 13: Disposal Considerations

Disposal Information: Recycle wherever possible. Bury residue in an authorised landfill. Recycle containers wherever possible or dispose of in an authorised landfill.

Section 14: Transport Information

Relevant information: No transport restrictions.

Section 15: Regulatory Information

Regulatory status: This product is exempt from registration, being an oral nutritional compound compliant with S4 of the ACVM regulations 2001.

Section 16: Other Information

Additional Information: National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand. Phone (0800) 764-766 24 hours.

1. The above information has been compiled on the basis of good faith, and our experience from the available technical knowledge and data for this product.
 2. Where health or safety data given discloses a risk to the user or environment, it is the responsibility of the Purchaser to pass on that information to employees or those who may be using the product, ensuring that adequate safety procedures are used.
 3. No responsibility can be accepted for the wrongful or misinterpretation of this data.
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