Safety Data Sheet



Kieserite

Product Name:	Kieserite (Magnesium Sulphate Monohydrate)
Product Code:	0000400
Recommended Use:	Fertiliser
Restrictions of Use:	Refer to Section 15
Company Identification:	Ravensdown Limited
Address:	292 Main South Road, Hornby, Christchurch, 8042 PO Box 1049, Christchurch 8011
Customer Centre:	0800 100 123
National Poisons Information Centre:	0800 POISON (0800 764 766)
Emergency Phone Number:	0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)
Transport Emergency Phone Number:	111 - tell operator what service is needed: Fire, Ambulance or Police
Date of SDS Preparation	18 June 2024

Section 2: HAZARD IDENTIFICATION

This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
Magnesium Sulphate Monohydrate	14567-64-7	85%
Non-hazardous ingredients		To bal

Section 4: FIRST AID MEASURES

Routes of Exposure:	
If in eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
If on skin:	Wash affected area thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
If ingested:	Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766).
If inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Most important symptoms and effects, both acute and delayed:	
Symptoms:	None known.
Notes to Doctor:	No specific antidote. Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Non Flammable
Hazards from combustion products	Sulphur oxides, magnesium oxide.
Suitable Extinguishing media	Based on surrounding materials
Precautions for firefighters and special	Breathing apparatus goggles and protective gloves
protective clothing	
HAZCHEM CODE	None allocated.

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Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Avoid unintended release of excessive amounts into waterways or sewers. If spill does enter waterways contact local authority.

Methods and material for containment and cleaning up:

Contain spill and sweep up. Collect and place in sealable containers. Reuse or recycle where possible. Dispose of according to Section 13.

Section 7: HANDLING AND STORAGE

Handling:	Wear protective clothing as detailed in SDS Section 8.
riananig.	Always read label before use.
	Handle in well ventilated areas.
	Do not eat, drink or smoke while using this product.
	Remove protective clothing and wash hands and face before meals and after work.
	Wash protective clothing daily after work.
Storage:	Keep out of reach of children.
	Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL

Substance ppm mg/m³ ppm mg/m³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and timeweighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2023 14TH EDITION.

Engineering	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other
Controls:	engineering controls to keep airborne levels below exposure limits. Avoid inhalation of dust.

Personal Protection Equipment:







Eyes:	Wear safety goggles.
Skin/Hands:	Wear protective gloves, and overalls.
Respiratory:	If dust is present wear dust mask.
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Uneven Granular
Colour	Creamy brown/white
Odour	Odourless
Odour Threshold	Not available
рН	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Specific Gravity	Not available

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Bulk Density	Not available
Water Solubility	Soluble
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Decomposes above 850°C
Kinematic Viscosity	Not available
Granulometrics (mm)	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	Stable under normal conditions.
Possibility of hazardous reactions	Not available.
Conditions to Avoid	Strong heat, moisture.
Incompatible Materials	Oxidising agents.
Hazardous Decomposition Products	Sulphur oxides, Magnesium Oxide

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Additional Control of the Control of		
Swallowed	Not triggered. May lead to nausea, vomiting, diarrhea Acute Toxicity (Oral): LD50 5,000mg/kg (mouse).	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Not applicable.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive	Not applicable.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12: ECOLOGICAL INFORMATION

Not hazardous to the environment.

Product:

Persistence and degradability	No data available
Bioaccumulation	Unlikely to bio-accumulate
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13: DISPOSAL INFORMATION

Disposal Method:	Dispose of product only by using according to label or at an approved landfill.
Container Disposal:	Dispose of in an approved landfill. Do not use container for any other purpose.
Precautions or methods to avoid:	None known.

Section 14: TRANSPORT INFORMATION

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020

Section 15: REGULATORY INFORMATION

This substance is NOT classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

Section 16: OTHER INFORMATION

Glossary

EC₅₀ Median effective concentration. EEL Environmental Exposure Limit.

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EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

LD₅₀ Lethal dose to kill 50% of test animals/organisms.

LEL Lower explosive level.

OSHA American Occupational Safety and Health Administration.

TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible authority.

UEL Upper Explosive Level
WES Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017

- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2023 14th edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Ravensdown, if further information is required.

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