

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL[®] Magnesium

Product No: 22322

Product Use: Plant nutrition, slow release fertilizer

Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticentre Ltd Address: 10 Firth Street Drury, 2113

Telephone: +64 9 294 8453 Fax Number: +64 9 294 7272

Emergency Telephone: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 9 July 2024 v3

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fertilisers (Subsidiary) - HSR002571

Pictograms





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.

Prevention Code Prevention Statement

P103	Read carefully and follow all instructions.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fumes, gas, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

Product Name: WUXAL Magnesium SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 9 July 2024 Tel: 64 9 475 5240 www.techcomp.co.nz

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P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code Response Statement

P314	Get medical advice/attention if you feel unwell.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code Storage Statement

P405	Store locked up.

Disposal Code Disposal Statement

	Triple rinse container. Cleaned packaging maybe offered for recycling or
P501	landfill in accordance with local regulations. Dispose of unwanted product
	and/or rinsate as a hazardous material according to Local Regulations.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Manganese Sulphate	1-5	10034-96-5
Zinc Sulphate-monohydrate	1-5	7446-20-0
Boric Acid	<2	10043-35-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. If eye irritation persists:

Get medical advice.

If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical

advice/attention.

If Swallowed Immediately rinse the mouth. DO NIT induce vomiting. Consult the doctor

in case of persistent trouble.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:Not applicableInhalation:Not applicableSkin:Not applicable

Eye: Causes severe eye irritation.

Chronic: Suspected of damaging fertility or the unborn child.

May cause damage to organs through repeated or prolonged exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from	The material itself is harmless and hardly inflammable. Ambient fire
decomposition	may liberate hazardous vapours. If larger quantities of the product are
products	on fire, the formation of sulfur oxide gases is possible.

Suitable	Water, carbon dioxide, dry extinguishing media, foam.	
Extinguishing		
media		
Precautions for	Do not stay in dangerous zone without suitable protecting clothes and	
firefighters and	self-contained breathing apparatus. Contain escaping vapours with	
special protective	water. Prevent fire-fighting water from entering surface water or	
clothing	groundwater.	
HAZCHEM CODE	1Z	

Section 6. Accidental Release Measures

Wear suitable protecting clothes. Avoid product contact and formation of vapours/aerosols. Do not inhale vapours/aerosols. In event of vapours/aerosols wear respiratory protection, safety glasses and gloves.

Take up with absorption media. Sweep or vacuum material when possible and shovel into a waste container.

Disposal of contaminated material as waste according to section 13.

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

Section 7. Handling and Storage

Handling

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

Storage

- It is recommended to design stockrooms so that the product is well-protected from weather factors, humidity, solar radiation, heat up and impurities.
- Keep containers tightly closed and store in a cool dry place.
- To fight a fire and decomposition keep care of a sufficient water supply.
- Ensure high standard of housekeeping in the storage area.
- Do not store together with food and luxury food, beverage and animal feed.
- Store locked up.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredient has 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 time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2024 14TH EDITION.

Engineering Controls

Ensure adequate ventilation to minimize exposure

Personal Protection Equipment









Eyes	In event of dust wear safety glasses.	
Hands	Wear nitrile gloves.	
Skin	Closed working clothes.	
Respiratory Required when vapours/aerosols are generated.		
	Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful	
	substances.	
General	Immediately change contaminated clothing. Apply skin-protective barrier	
	cream. Wash hands and face after working with substance.	

Section 9 Physical and Chemical Properties

Appearance	Aqueous Crystal suspension
Colour	Green
Odour	Product specific
Odour Threshold	Not applicable
pH (original state)	Approx 5
pH at 16g/I H2O and 20°C:	Approx 8
Boiling Point	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower	Not applicable
Explosive Limits	
Explosive hazards	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Density @ 20°C	approx. 1.50 g/cm ³
Water Solubility @ 20°C	To a very high degree
Partition Coefficient:	Not applicable
Self-ignition	Not applicable
Decomposition	Not applicable
Temperature	
Kinematic Viscosity	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Chability of Cylestones	This word set is stable and an accordance distance
Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous	Reacts with alkalis setting ammonia free.
reactions	
Conditions to Avoid Direct solar radiation, heat up and dry up. Temperatures	
	above +40° C.
Incompatible Materials Strong alkaline materials, strong acid materials.	
Hazardous Decomposition	If larger quantities of the product are on fire, the formation of
Products	nitrous gases and ammonia is possible.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (oral): =>5000 mg/kg.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Cause serious eye irritation.	
Skin	Not applicable.	

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Suspected of damaging fertility or the unborn child.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Section 12. Ecotoxicological Information

Harmful to aquatic life with long lasting effects.

Product:	
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Ensure that the product does not reach the ground-water, water bodies or the drainage system.

The following applies to manganese ions in general:

Interference threshold for turbellarian worms (Polycelis nigra) 660 mg/l.

EC₅₀ (microregma) 31 mg/l.

Fish toxicity:

LC₅₀ (orfe) 2490 mg/l;

LC₅₀ (trout) 2.91 mg/l (28 days).

Daphnia toxicity: LC₅₀ (daphnia magna) 50 mg/l.

Acute toxicity:

Pseudomonas putida 10.6 mg/l;

Photobacterium phosphoreum 14.7 mg/l.

The following applies to sulfate:

Biological effects: fish: toxic as from 7 g/l;

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container. Add rinsate to waste container for disposal. Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations. Dispose of unwanted product as a hazardous material according to Local Regulations.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

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

Section 15 Regulatory Information

EPA Approval Code: Fertilisers (Subsidiary) - HSR002571

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC₅₀ Median effective concentration.
EEL Environmental Exposure Limit.
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

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Please contact the Horticentre, if further information is required.

Issue Date: 9 July 2024 Review Date: 9 July 2029