

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL® Manganese

Product No: 22279

Product Use: Fertiliser, preparation for plant nutrition.

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: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes 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.
P260	Do not breathe dust or fumes.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

Response Coo	le Resnonse	Statement
KESDOLISE COL	ie Kesnolise	: Statement

P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.

Product Name: WUXAL Manganese 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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D007 D040	
P337 + P313	If eye irritation persists: Get medical advice/attention.

Storage Code Storage Statement

None allocated

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 as
	a hazardous material according to Local Regulations.

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Manganese (II) sulphate monohydrate	5-10	10034-96-5

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 NOT induce vomiting. Get medical

assistance if you feel unwell.

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 applicableEye:Not applicable

Chronic: Causes damage to organs through prolonged or repeated 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 nitrous gases and ammonia is possible.
Suitable	Water, carbon dioxide, dry extinguishing media.
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	None allocated

Section 6. Accidental Release Measures

Avoid substance contact, dont inhale vapours/aerosols. Wear closed working clothes, protecting glasses, hand protection, and in case of vapours respiratory protection. Remove soiled clothes.

Take up with absorption media. 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 breathe dust or fumes.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.

Storage

Substance

- Protect the product from impurity and drying up.
- Temperature in stockrooms not below +0°C and above +30°C.
- Keep containers tightly closed.
- Do not store in metal containers (corrosion risk)
- Do not store together with food and luxury food, beverage and animal feed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL 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 2023 13TH EDITION.

Engineering Controls

Ensure adequate ventilation to minimize exposure

Personal Protection Equipment









Eyes	Safety goggles with side shields.
Hands	Chemical resistance rubber or plastic gloves.
Skin	Closed working clothes.
Respiratory	Required when vapours/aerosols are generated.
General	Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance. Do not eat and drink at work.

Section 9 Physical and Chemical Properties

Appearance	Aqueous crystal suspension
Colour	Green Brown
Odour	Product specific
Odour Threshold	Not applicable
pH (original state)	Approx 6.5
pH at 10g/l H2O and	Approx 7.8
20°C:	
Change in physical	> 100°C evaporation of water
state	
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. 1.45 g/cm ³
Water Solubility @ 20°C	Approx 200 g/l
Partition Coefficient:	Not applicable
Self-ignition	The product is not spontaneously flammable.
Decomposition	Not applicable
Temperature	
Kinematic Viscosity	Not applicable
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous	Reacts with alkalis setting ammonia free.	
reactions		
Conditions to Avoid	Keep the product from drying up. Temperatures above +30°C.	
Incompatible Materials	Alkalis.	
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	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		

Aspiration	Not applicable.	
STOT/SE	Causes damage to organs through prolonged or repeated exposure.	
STOT/RE	Not applicable.	

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. No ecological problems are to be expected when the product is handled and used with due care and attention.

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	Trigger Quantity	
Notices		
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

 EC_{50} 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

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 the Horticentre, if further information is required.

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