

# **SAFETY DATA SHEET**

#### Section 1. Identification of the material and the supplier

WUXAL<sup>®</sup> Manganese Product:

Product No:

Fertiliser, preparation for plant nutrition. Product Use:

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: 25 July 2019 v2

### Section 2. **Hazards Identification**

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

Group Standard & EPA Approval Code: Fertilisers (subsidiary) - HSR002571

## **Pictograms**



Chronic

Signal Word: **DANGER** 

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.9A	H372	Causes damage to organs through prolonged or repeated exposure.	STOT RE 1
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3

## **Prevention Code** Prevention Statement

P103	Read label before use.
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 Code Response Statement**

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P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
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 applicable **Inhalation:** Not applicable Skin: Not applicable Eve: 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 may
decomposition	liberate hazardous vapours. If larger quantities of the product are on
products	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

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## 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**

- 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 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 2017 9TH 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.

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### 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 20°C:	Approx 7.8
Change in physical	> 100°C evaporation of water
state	
<b>Boiling Point</b>	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower	Not applicable
<b>Explosive Limits</b>	
<b>Explosive hazards</b>	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Density @ 20°C	approx. 1.45 g/cm <sup>3</sup>
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
<b>Particle Characteristics</b>	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	Alkalines.
<b>Hazardous Decomposition</b> If larger quantities of the product are on fire, the formation	
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	

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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**

HSNO Class: 9.1C = 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 5433:2012

## Section 15 Regulatory Information

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

HSNO Classification: 6.9A, 9.1C

<b>HSW (HS) Regulations 2017 and EPA Notices</b>	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (9.1C)
Emergency Response Plan	1000L (9.1C)
Secondary Containment	1000L (9.1C)
Restriction of Use	Only use for the intended purpose.

# **Section 16** Other Information

Glossary

EC<sub>50</sub> Median effective concentration. EEL Environmental Exposure Limit. EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

 $LC_{50}$  Lethal concentration that will kill 50% of the test organisms

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inhaling or ingesting it.

LD<sub>50</sub> 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 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the Horticentre, if further information is required.

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