

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL[®] Brassica

Product No: 22780

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: 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





Irritant

Chronic

Signal Word: WARNING

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
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 Statemer	
	+

P102 Keep out of reach of children.

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P103	Read label before use.	
P201	Obtain special instructions before use.	
P202	Do not handle until all safety precautions have been read and understood.	
P260	Do not breathe vapours or spray.	
P264	Wash hands thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P273	Avoid release to the environment.	
P280	Wear protective clothing as detailed in Section 8.	
P281	Use personal protective equipment as required.	

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician 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.
P332 + P313	If skin irritation occurs: 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 Manaures	
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: May be harmful if swallowed.

Inhalation: Not applicable

Skin: Causes mild skin irritation.

Causes severe eye irritation. Eye:

Suspected of damaging fertility or the unborn child. Chronic:

Causes damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of sulfur oxide gases is possible.
Suitable Extinguishing media	Water, carbon dioxide, dry extinguishing media, foam.
Precautions for firefighters and special protective clothing	Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or 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.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- 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.
- Keep out of reach of children.
- Store away from incompatible materials listed in Section 10.

Section 8	Exposure Controls / Personal Protection

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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	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	Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.	

Section 9 Physical and Chemical Properties

Appearance	Aqueous Crystal suspension
Colour	Green
Odour	Product specific
Odour Threshold	Not applicable
pH (original state)	Approx 4.8
pH at 16g/I H2O and	Approx 7
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. 1.4 g/cm ³
Water Solubility @ 20°C	To a very high degree
Partition Coefficient:	Not applicable
Self ignition	The product is not spontaneously inflammable.
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	Direct solar radiation, heat up and dry up. Temperatures above +30° C.	
Incompatible Materials	Strong alkaline materials, strong acid materials and strong oxidisers.	
Hazardous Decomposition Products	No decomposition if correctly used. Thermic decomposition: If larger quantities of the product are on fire, the formation of sulphur oxide gases possible.	

Section 11 **Toxicological Information**

Acute Effects:

Swallowed	May be harmful if swallowed. Mixture calculation = LD50 (oral): =2465 mg/kg.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Cause serious eye irritation.	
Skin	Causes mild skin irritation.	

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	Causes damage to organs through prolonged or repeated exposure.	

Section 12. Ecotoxicological Information

HSNO Classes: 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

Do not allow to enter waterways.

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.

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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: 6.1E(oral), 6.3B, 6.4A, 6.8B, 6.9A, 9.1C

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(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

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 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

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