



SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL[®] Zinc
 Product No: 23106
 Product Use: Foliar Fertiliser preparation for plant nutrition.

New Zealand Supplier: Horticulture Ltd
 Address: 10 Firth Street
 Drury 2113

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

New Zealand: **0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 7 October 2014

Section 2. Hazards Identification

The manufacturer has stated that this substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

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

Pictograms



Chronic



Ecotoxic

Signal Word: **DANGER**

HSNO Class.	Hazard Code	Hazard Statement	GHS Category
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	Category 2
8.3A	H318	Causes serious eye damage.	Category 1
9.1B	H411	Toxic to aquatic life with long lasting effects.	Category 2

Prevention Code Prevention Statement

P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code Response Statement

P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code Storage Statement

None Allocated	
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Disposal Code Disposal Statement

P501	Triple rinse container. 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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Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Zinc Sulphate Monohydrate	10-20	7449-19-7

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician.
If on Skin	Wash with plenty of soap and water. If skin irritation occurs: get medical advice.
If Swallowed	Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble. 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.

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 nitrous gases and ammonia 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 chemical protecting clothes and self-contained breathing apparatus. Contain escaping vapours with water.
HAZCHEM CODE	3Z

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. 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

- Keep out of reach of children.
- Read label before use.
- Do not breathe fumes, vapours or spray.
- Avoid release to the environment.
- Wear protective clothing.

Storage

- Protect the product from impurity or drying up.
- Temperature in stockrooms not below -5°C and above $+40^{\circ}\text{C}$
- Do not store in metal containers (corrosion risk).
- Keep containers tightly closed.
- Do not store together with food and luxury food, beverage and animal feed.

Section 8 Exposure Controls / Personal Protection

Engineering Controls

Not applicable. Ensure adequate ventilation is available to reduce exposure

Personal Protection

Eyes: Safety goggles with side protection.

Skin: Skin-protective barrier cream and closed working clothes

Hand:

In full contact:	Glove material:	nitrile rubber
	Layer thickness:	0.11 mm
	Breakthrough time:	> 480 Min.
In splash contact:	Glove material:	nitrile rubber
	Layer thickness:	0.11 mm
	Breakthrough time:	> 480 Min.

Respiratory: Respiratory protection necessary when vapours/aerosol and wet fog are generated. Filter P 2 (acc. to DIN 3181) for solid and liquid particles.

Industrial Hygiene 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
Odour	Product specific
pH(original state):	Approx 6.1
pH at 10 g/l H₂O and 20° C:	Approx 7.1
Change in physical state:	> 100° C evaporation of water
Self ignition	The product is not spontaneously inflammable
Density (at 20° C)	Approx. 1.43 g/cm ³
Solubility in water (at 20° C):	Approx 200

Section 10. Stability and Reactivity

Stability of Substance The product is stable under normal conditions.

Conditions to Avoid Direct solar radiation, heat up and dry up. Temperatures above $+40^{\circ}\text{C}$.

Incompatible Materials Strong alkaline materials.

Hazardous Decomposition Products

No decomposition if correctly used. Reacts with alkalis setting ammonia free.

Thermic Decomposition

If larger quantities of the product are on fire, the formation of nitrous gases, ammonia and sulphuric acid gases is possible.

Section 11 Toxicological Information

Toxicological tests

Acute toxicity:

Oral for this product = LD₅₀ (oral): =>5000mg/kg = Non Hazardous

Further toxicological information

After eye contact: Causes serious eye damage.

Chronic:

Systematic: May cause damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

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

Section 13. Disposal Considerations

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

Ensure waste container is labelled "Hazardous Waste – Corrosive, Ecotoxic"

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Road and Rail Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Air Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Marine Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Section 15 Regulatory Information

The manufacturer has stated that this substance is hazardous according to the HSNO (Minimum Degrees of Hazard) Regulations 2001

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

HSNO Classification: 6.9B, 8.3A, 9.1B

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (9.1B)
Emergency Response Plan trigger Quantities	1000L (9.1B)

Section 16 Other Information

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

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Please contact the New Zealand distributor, Hortcentre Ltd, if further information is required.

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