

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: 18 June 2020 – version 3

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Non-hazardous ingredients	100	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: Rinse cautiously with water for 15 minutes. 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.

Most important symptoms and effects, both acute and delayed

Symptoms: None known.

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

- Read label before use.
- Wear protective clothing.

Storage

- Protect the product from impurity or drying up.
- Temperature in stockrooms not below -5°C and above +40°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

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have 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 2019 11TH EDITION.

Engineering Controls

Ensure adequate ventilation is available to reduce exposure

Personal Protection Equipment



Eyes	Safety goggles with side protection.
Hands	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.
Skin	Skin-protective barrier cream and closed working clothes
Respiratory	Respiratory protection necessary when vapours/aerosol and wet fog are generated. Filter P 2 (acc. to DIN 3181) for solid and liquid particles.
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
Odour	Product specific
Odour Threshold	Not available
pH(original state):	Approx 6.1
pH at 10 g/l H₂O and 20° C:	Approx 7.1
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Non Flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density (20°C)	Approx. 1.43 g/cm ³
Water Solubility (20°C)	Approx 200
Partition Coefficient:	Not available
Self ignition	The product is not spontaneously inflammable
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Change in physical state	> 100° C evaporation of water

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Direct solar radiation, heat up and dry up. Temperatures above +40° 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

This product is not hazardous to the environment.

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

Section 13. Disposal Considerations

Triple rinse container. Dispose of unwanted product and rinsate as a hazardous material according to Local Regulations.

Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

The manufacturer has stated that this substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

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.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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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Please contact Horticulture if further information is required.

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