

SAFETY DATA SHEET

Section 1.	Identification of the material and the supplier
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Product: WUXAL® Ascofol
 Product No: 223723
 Product Use: Fertiliser, preparation for plant nutrition.
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Horticulture 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
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This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Fertilisers (subsidiary) - HSR002571

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.

Prevention Code	Prevention Statement
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P103	Read carefully and follow all instructions.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands thoroughly after handling.
P280/1	Wear protective clothing and equipment.

Response Code	Response Statement
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P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

P337 + P313	If eye irritation persists: Get medical advice/attention.
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Storage Code Storage Statement

P405	Store locked up.
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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.
Boric Acid	<20%	10043-35-3

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. 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 with water, then drink a lot of water. 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:	Not applicable
Inhalation:	Not applicable
Skin:	Not applicable
Eye:	Causes serious eye irritation.
Chronic:	Suspected of damaging fertility or the unborn child.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from decomposition products	If larger quantities of the product are on fire, the formation carbon monoxide and carbon dioxide is possible.
Suitable Extinguishing media	Water, carbon dioxide, dry extinguishing media.
Precautions for firefighters and special protective clothing	Do not stay in dangerous zone without suitable protecting clothes and self-contained breathing apparatus.
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Avoid substance contact. Wear closed working clothes, protecting glasses and hand protection. Remove soiled clothes.

Take up with absorption media or sand and collect for disposal.

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 handle until all safety precautions have been read and understood.
- Wash hands thoroughly after handling.
- Wear protective clothing and equipment.

Storage

- Protect the product from impurity and drying up.
- Keep containers tightly closed.
- Do not store in metal containers (corrosion risk).
- Keep locked up or in an area accessible only to qualified or authorised persons.
- Do not store below +5 °C and above +40 °C.
- Do not store together with food and luxury food, beverage and animal feed. Oxidizing agents, combustible substances.

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 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 14TH EDITION.

Engineering Controls

Ensure adequate ventilation to minimize exposure

Personal Protection Equipment



Eyes	Safety goggles with side shields.
Hands	In full or splash contact: Glove material: nitrile rubber Layer thickness: 0.11 mm Breakthrough time: > 480 Min.
Skin	Closed working clothes and skin-protective barrier cream
Respiratory	Required when vapours/aerosols are generated. Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

General	Immediately change contaminated clothing. Apply skin-protective barrier cream. Wash hands and face after working with substance.
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Section 9 Physical and Chemical Properties

Appearance	Aqueous suspension
Colour	Dark Brown
Odour	Product specific
Odour Threshold	Not applicable
pH (original state)	Approx 8
pH at 16g/l H₂O and 20°C:	Approx 7
Change in physical state	> 100°C evaporation of water
Boiling Point	Not applicable
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower Explosive Limits	Not applicable
Explosive hazards	Not applicable
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Density @ 20°C	approx. 1.3 g/cm ³
Water Solubility @ 20°C	Approx 200g/l
Partition Coefficient:	Not applicable
Self-ignition	The product is not spontaneously flammable.
Decomposition Temperature	Not applicable
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 reactions	None known.
Conditions to Avoid	Temperatures above +50° C. Keep the product from drying up.
Incompatible Materials	Strong Oxidiser.
Hazardous Decomposition Products	If larger quantities of the product are on fire, the formation of carbon monoxide and carbon dioxide is possible.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 (oral): = >5000 mg/kg.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Cause serious eye irritation.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
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Reproductive Toxicity	Suspected of damaging fertility or the unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.
Other	After uptake of large quantities: Possible symptoms: agitation, spasms, tiredness, ataxia (impaired locomotive coordination), drop in temperature.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Boric Acid (Cas no 10043-35-3)	2668 mg/kg (mouse)	-	-

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

Fertilizer material.

The following applies to boron compounds in general:

Biological effects: boric acid developing as a result of hydrolysis toxic for aquatic organisms;
 fish: Gambusia affinis 96 h. LC₅₀: 5600 mg/l;
 24 h. LC₅₀: 1800 mg/l;
 plants: as toxic from 1 mg/l

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 Notices	Trigger Quantity
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Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	Not required
Secondary Containment	Not required
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.
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 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

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Please contact the Horticulture, if further information is required.

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