

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: WUXAL[®] Terios Zn
 Product No: P22990
 Product Use: Fertiliser

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: 4 March 2016

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



Irritant



Chronic

Signal Word: **WARNING**

| HSNO Class. | Hazard Code | Hazard Statement | GHS Category |
|-------------|-------------|--|--------------|
| 6.4A | H319 | Causes serious eye irritation. | Category 2A |
| 6.8B | H361 | Suspected of damaging fertility or the unborn child. | Category 2 |

| Prevention Code | Prevention Statement |
|-----------------|---|
| P103 | Read label before use. |
| 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 |
|------------------|--|
| P338 | Remove contact lenses, if present and easy to do. Continue rinsing. |
| 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. |

Storage Code Storage Statement

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| P405 | Store locked up. |
|------|------------------|

Disposal Code Disposal Statement

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| 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 | 1 - <2% | 10043-35-3 |
| Ethylenediaminetetraacetic acid copper(II) diammonium salt | 8 - <10% | 67989-88-2 |

Section 4. First Aid Measures

Routes of Exposure:

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| 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. |

Section 5. Fire Fighting Measures

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| Hazard Type | Non Flammable |
| Hazards from decomposition products | Hazardous combustion products: nitrogen oxides, Ammonia, Sulphur oxides. |
| Suitable Extinguishing media | The product itself does not burn. Water spray jet, Water mist, carbon dioxide, Powder. Do not use a strong water jet. |
| Precautions for firefighters and special protective clothing | Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. |
| HAZCHEM CODE | None allocated |

Section 6. Accidental Release Measures

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

Do not allow to enter into surface water or drains.

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 from heat and direct sunlight.
- Keep container tightly closed.
- Always keep in containers that correspond to the material of the original container.
- Keep locked up or in an area accessible only to qualified or authorized persons.
- Store in a well-ventilated and dry room at temperatures between 5 °C and 40 °C.
- Do not store together with food and feeding stuffs.

Section 8 Exposure Controls / Personal Protection

According to the German national regulations, the preparation contains constituents with occupational exposure limits biological occupational exposure limits requiring monitoring.

Boric Acid = 0.5 mg/m³ inhalable fraction.

Engineering Controls

Ensure adequate ventilation is provided to minimize exposure.

Personal Protection

- Eyes:** Wear closely fitting protective glasses in case of splashes.
- Skin:** Skin-protective barrier cream and closed working clothes.
- Hand:** For prolonged or repeated handling the following glove material must be used: e.g. NBR (Nitrile rubber).
- Respiratory:** Usually no personal reparative protection necessary.

Section 9 Physical and Chemical Properties

| | |
|---|----------------------|
| Appearance | Greenish blue liquid |
| Odour | Characteristic |
| Odour Threshold | Not applicable |
| pH @ 20°C | 6.10 |
| 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 |
| Vapour Pressure | Not applicable |
| Vapour Density | Not applicable |

| | |
|----------------------------------|------------------------|
| Density @ 20°C | 1.37 g/cm ³ |
| Solubilities | Very soluble |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Kinematic Viscosity | Not applicable |
| Particle Characteristics | Not applicable |

Section 10. Stability and Reactivity

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| Stability of Substance | The product is stable under normal conditions. |
| Conditions to Avoid | Protect from heat and direct sunlight. |
| Incompatible Materials | Alkali (lye). |
| Hazardous Decomposition Products | No decomposition if correctly used. |
| Thermic Decomposition | Does not decompose when used for intended uses. Hazardous decomposition by products may form with exposure to high temperatures: nitrogen oxides, Ammonia, Sulphur oxides. |

Section 11 Toxicological Information

Acute Effects:

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|-------------------|----------------------------------|
| Swallowed | Not applicable. |
| Dermal | Not applicable. |
| Inhalation | Not applicable. |
| Eye | Causes severe irritation to eyes |
| Skin | Not applicable. |

Chronic Effects:

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|-------------------------------|--|
| Carcinogenicity | Not applicable. |
| Reproductive Toxicity | Suspected of damaging fertility or the unborn child. Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Not applicable. |

Section 12. Ecotoxicological Information

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

| | |
|--------------------------------------|-------------------|
| 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. 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.

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: 6.4A, 6.8B

HSNO Controls:

Trigger quantities for this substance:

| | Trigger Quantity |
|--|-------------------------|
| Approved Handler | Not required |
| Location Certificate | Not required |
| Tracking Trigger Quantities | Not applicable |
| Signage Trigger Quantities | Not applicable |
| Emergency Response Plan trigger Quantities | Not applicable |

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, Horticulture Ltd, if further information is required.

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