# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | WUXAL® Ascofol Zn |
| Product Use: | Fertiliser, preparation for plant nutrition |
| Restrictions of use: | Refer to Section 15 |
| New Zealand Supplier: | Horticentre Ltd |
| Address: | 10 Firth Street<br>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: | 8 July 2020 – v3 |

## 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:

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|---|---|
| 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 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: None known.

## Section 5. Fire Fighting Measures

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|---|---|
| **Hazard Type** | Non Flammable Liquid |
| **Hazards from decomposition products** | 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 protecting clothes and self-contained breathing apparatus. |
| **HAZCHEM CODE** | **None allocated** |

## Section 6. Accidental Release Measures

Avoid substance contact, don't inhale vapours. Wear closed working clothes, protecting glasses and hand protection and in case of vapours respiratory protection. Evacuate area.

Take up with absorption media. Disposal of contaminated material as waste according to Local Regulations.

## Section 7. Handling and Storage

**Handling**

- Read label before use.
- Do not breathe fumes, vapours or spray.
- Wear protective clothing.

**Storage**

- Temperature not below +5 °C and above +35 °C.
- Protect the product from impurity and drying up.
- Keep containers tightly closed.

## Section 8 Exposure Controls / Personal Protection

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

| **Substance** | **TWA** | | **STEL** | |
|---|---|---|---|---|
| | **ppm** | **mg/m³** | **ppm** | **mg/m³** |

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** Not applicable. Product is diluted and sprayed in a wide dispersive manner.

**Personal Protection Equipment**

| | |
|---|---|
| **Eyes** | Avoid contact with eyes. Do not spray near eyes. Use safety glasses and or chemical splash goggles if splashes are possible.<br>Avoid wearing contact lenses. |
| **Hands** | In full contact:<br>Glove material: nitrile rubber<br>Layer thickness: 0.11 mm<br>Breakthrough time: > 480 Min.<br><br>In splash contact:<br>Glove material: nitrile rubber<br>Layer thickness: 0.11 mm<br>Breakthrough time: > 480 Min. |
| **Skin** | Skin-protective barrier cream and closed working clothes. |
| **Respiratory** | Required when vapours/aerosols are generated.<br>Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances. |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Aqueous crystal suspension |
| **Colour** | Green |
| **Odour** | Product specific |
| **Odour Threshold** | Not available |
| **pH(original state)** | Approx. 6.4 |
| **pH at 10 g/l $H_2O$ and 20° C** | Approx. 7 |
| **Boiling Point** | Not available |
| **Boiling Point** | Not available |
| **Melting Point** | Not available |
| **Freezing Point** | Not available |
| **Change in physical state** | > 100o C evaporation of water |
| **Flash Point** | Not available |
| **Flammability** | The product is not flammable. |
| **Upper and Lower Explosive Limits** | Not available |
| **Vapour Pressure** | Not available |
| **Density (at 20$^0$C)** | approx. 1,27g/cm$^3$ |
| **Specific Gravity** | 0.9 – 1.1 g/cm$^3$ |
| **Solubilities Water(at 20$^0$C)** | Approx. 200g/l |
| **Log Pow:** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **Kinematic Viscosity** | Not available |

## Section 10. Stability and Reactivity

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|---|---|
| **Stability of Substance** | Stable under recommended storage conditions. |
| **Reactivity** | None known. |
| **Hazardous Reactions** | Not combustible but enhances combustion of other substances. Very flammable gas (hydrogen)may be formed on contact with metals. Reacts exothermically with water (moisture). Risk of explosion in confined areas and in contact with incompatible materials. |

| | |
|---|---|
| **Conditions to Avoid** | Temperatures above +35° C. Keep the product from drying up. |
| **Incompatible Materials** | Alkalis. |
| **Hazardous Decomposition Products** | Reacts with alkalis setting ammonia free. If larger quantities of the product are on fire, the formation of nitrous gases and ammonia is possible. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not applicable. |
| **Dermal** | Not applicable. |
| **Inhalation** | Not applicable. |
| **Eye** | Not applicable. |
| **Skin** | Not applicable. |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Not applicable. |
| **Reproductive Toxicity** | Not applicable. |
| **Germ Cell Mutagenicity** | Not applicable. |
| **Aspiration** | Not applicable. |
| **STOT/SE** | Not applicable. |
| **STOT/RE** | Not applicable. |

## Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

| | |
|---|---|
| **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 and add rinsate to spray tank.
Cleaned packaging maybe offered for recycling or landfill in accordance with local regulations.

## Section 14 Transport Information

**This product is <u>not</u> 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. |
| $LC_{50}$ | 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


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Issue Date: 8 July 2020 Review Date: 8 July 2025