

# SAFETY DATA SHEET

## TERRAZOLE® 35WP Fungicide

Date of Issue: 18 October 2021

### 1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Chemical name of active ingredient(s):** Etridiazole  
**Recommended use:** Fungicide  
Controls Pythium and Phytophthora in turf, ornamentals and vegetable seedlings.

**Supplier:** UPL New Zealand Limited  
PO Box 51584, Pakuranga  
Auckland  
Phone 0800 100 325  
www.upl-ltd.com/nz

**Emergency telephone number:** 0800 CHEM CALL (0800 243 622) 24 Hours

### 2. HAZARDS IDENTIFICATION



**Hazard Classification:** 6.1D, 6.3A, 6.4A, 6.7B, 6.8B, 6.9B, 9.1A, 9.  
**Required identification Details:** **Signal Word: WARNING**  
Keep out of reach of Children.  
Read label before use.

May be harmful if swallowed, inhaled or absorbed through the skin.  
May cause skin and eye irritation.  
Limited evidence of a carcinogenic effect in animals.  
May cause reproductive / development damage or organ damage from repeated oral exposure.  
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.  
Harmful to terrestrial vertebrates.  
Do not allow animals to graze treated areas

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%
Etridiazole	2593-15-9	350g/kg
Ingredients determined to be nonhazardous		Balance

### 4. FIRST-AID MEASURES

**Description of necessary first aid measures:**

**General information:****First-aid measures**

For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.

**Inhalation:**

Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately

**Ingestion:**

Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.

**Skin contact:**

Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.

**Eye contact:**

Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.

**Notes to a physician:**

Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES****HAZCHEM Code:**

2X

**Type of Hazard:****Extinguishing media:**

Water fog, foam, carbon dioxide or dry chemical.

Unsuitable: Water in a jet.

**Hazardous thermal****(de)composition products:**

If involved in a fire, it may emit hydrogen chloride and oxides of sulphur and nitrogen.

**Specific methods:**

Keep up-wind. Do not allow washings to reach sewage or effluent systems.

**Protection of fire-fighters:**

Full protective clothing and self-contained breathing apparatus.

**Other Information:**

Location Certificate: Not applicable

Hazardous Atmosphere Zone: Not applicable

Number of Fire Extinguishers: Not applicable

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**6. ACCIDENTAL RELEASE MEASURES****Personal precautions:**

For appropriate personal protective equipment (PPE), refer Section 8.

**Environmental precautions:**

Prevent from entering drains, waterways or sewers.

**Methods for cleaning up:**

Wear protective clothing. Clear area of unprotected personnel. Sweep up solids without generating dust (use water to dampen). Contain and absorb liquid spills with inert material and place in waste containers. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.

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**7. HANDLING AND STORAGE****Handling:**

Avoid skin and eye contact and inhalation of spray mist.

APPROVED HANDLER: This product must be under the control of an approved handler when used by a commercial contractor.

TRACKING: Is not required

RECORD KEEPING: Records of use as described in NZS 8409

Management of Agrichemicals must be kept if more than 3kg is applied within 24 hours in a place where the product is likely to enter air or water and leave the place.

This product must not be applied onto or into water.  
Do not allow animals to graze treated areas.  
Keep out of reach of children.

**Storage:**

Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals.

Stores containing 100kg of TERRAZOLE 35WP are subject to signage, and more than 100kg require emergency response plans. Always read the label and any attached leaflet before use.

**Other Information:**

Aggregate Storage Volume Thresholds:

When stored with substances of the same hazard classification the aggregate quantity must be considered.

For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace Exposure Guidelines

**Exposure Standards:**

No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product.

As with all dusts the WES for particulates not otherwise classified = 10mg/m<sup>3</sup> inhalable dust, 3mg/m<sup>3</sup> respirable dust.

### Engineering measures

**Engineering control measures:**

Handle in well ventilated areas, generally natural ventilation is adequate. There should be sufficient ventilation to minimize dust exposure. Protect closed dust handling systems against possible dust explosions. Avoid dust accumulations on building or equipment surfaces. Keep containers closed when not in use.

**Detail specifications for equipment:**

When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, boots, and a NIOSH approved half face mask with organic vapour cartridge + dust/mist prefilter. Do not eat, drink or smoke while using.

**Respiratory system:**

**Skin and body:**

**Hands:**

**Eyes:**

**General hygiene:**

Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State: Colour, Odour.**

Solid, grey powder, musty odour.  
(WP) Wetable Powder.

**pH:**

8.4

**Volatile Component:**

low

**Vapour Pressure:**

**Boiling Point:**

**Flash Point:**

**Freezing/melting point:**

**Solubility:**

Disperses in water. Not soluble.

**Density:**

Bulk density = 0.3kg/m<sup>3</sup>

**Specific Gravity/Density:**

**Autoignition:**

355°C

**Information for flammable material:**

**Vapour Density:**

**Viscosity:**

Octanol/water partition coefficient:  
Explosive Properties:  
Oxidation Properties:

Log P<sub>ow</sub>: 3.37

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.  
**Conditions to avoid:**  
**Materials to avoid:** Strong oxidizing agents.  
**Hazardous Decomposition Products:** Irritating fumes, oxides of carbon and oxides of nitrogen.  
**Hazardous polymerization:** Not known to occur.  
**Hazardous reactions:**

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## 11. TOXICOLOGICAL INFORMATION

No specific toxicological data is available for this product.  
Data below is for constituents.

**Acute toxicity – Oral:** LD<sub>50</sub> (female rat) = 945mg/kg for etridiazole.  
**Acute toxicity - Dermal:** LD<sub>50</sub> (rabbits) >5,000mg/kg for etridiazole.  
**Acute toxicity – Inhalation:** LC<sub>50</sub> (rat) >5mg/kg/4h for etridiazole.  
**Ingestion:** Slightly toxic.  
**Skin irritation:** Non-irritant.  
**Eye irritation:** Contact with eyes may cause irritation.  
**Serious eye damage/irritation:** Mild eye irritant (rabbit) for Terrazole 35WP.  
**Skin sensitization:** Sensitizer (guinea pig) for etridiazole.  
**Respiratory irritation:** Inhalation of the dust may cause respiratory irritation.

### Chronic toxicity

Target organ toxicant: Liver  
NOEL (2y, feeding) for dogs = 2.5mg/kg bw/day for etridiazole.  
Carcinogen Cat 3. for etridiazole

**Carcinogenicity:**

Positive chromosome aberration (CHO) for etridiazole.

**Mutagenicity:**

NOEL (rabbit) = 15mg/kg bw/day (etridiazole).

**Reproduction toxicity:**

Target organ toxicant: Liver

**Subchronic/Chronic Toxicity:**

NOEL (2y, feeding) for dogs = 2.5mg/kg bw/day for etridiazole  
The Australian Acceptable Daily Intake (ADI) for etridiazole for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 3 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', December 2014).

**Other information:**

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## 12. ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.

### **Aquatic**

**Acute toxicity - Fish:**

LC<sub>50</sub> (96h) rainbow trout = 2.4mg/L for etridiazole.

**Acute toxicity – Daphnia:**

LC<sub>50</sub> (48h) Daphnia = 3.1mg/L for etridiazole.

**Acute Toxicity – Algae:**

EC<sub>50</sub> (5d) green algae = 0.072mg/L for etridiazole

**Acute Toxicity – Other Organisms:**

LD<sub>50</sub> bobwhite quail = 560mg/kg bw for etridiazole.  
Dietary LC<sub>50</sub> = 5,000mg/kg for etridiazole.

**Persistence/Degradability:**

Not readily biodegradable

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### 13. DISPOSAL CONSIDERATIONS

**Methods of disposal:** Ideally, the product should be used for its intended purpose. Ensure container is completely empty. Dispose of in landfill in accordance with local regulations.

**Empty container precautions:** Avoid contamination of any water supply with chemical or empty container.

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### 14. TRANSPORT INFORMATION - International transport regulations

**UN number:** UN3077

**Hazchem** 2X  
**Class or Division:** 9  
**Subsidiary Class:**  
**Packing Group:** III  
**Marine Pollutant:** Yes  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. - (etridiazole, 35%)

**IERG Number:** 47  
**IMO Marine Pollutant:** Yes. Environmentally Hazardous Substance mark required.  
**IMDG EMS:** F-A, S-F  
**Other Information:** Do not carry more than 3kg of TERRAZOLE 35WP on a passenger service vehicle. Segregation: Check the latest Land Transport Rule Dangerous Goods Rule 45001 for additional information. Sea transport may require additional segregation. Refer NZS5433 sea segregation for details.

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### 15. REGULATORY INFORMATION

**ACVM Registered Number:** P2221  
**HSNO Approval Code:** HSR000472

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### 16. OTHER INFORMATION

**Additional information:** **Original Issue Date:** 13 November 2018  
**Revision Date:** 18 October 2021  
**Replaces:** ES491

**Disclaimer EXCLUSION OF LIABILITY: PLEASE READ**

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