



## SAFETY DATA SHEET DIVINO 250 EC Fungicide

### Section 1: Identification of the Substance and Supplier

**Product name:** DIVINO 250 EC  
**Chemical name of active ingredient(s):** Difenoconazole: C19H17C12N3O3  
**Supplier:** ADAMA New Zealand Limited  
Level1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand  
P.O. Box 1799, Nelson New Zealand.  
**Telephone:** +64 3 5438275 Fax: +64 3 543 8274  
**Emergency Telephone:** 0800 POISON (0800 764 766)

### Section 2: Hazards Identification

**Hazard Classifications:** 6.1D, 6.3B, 6.4A, 6.8A, 6.9B, 9.1B

**Most important hazards:** TOXICITY  
**Warning –**  
May be harmful if swallowed, inhaled or absorbed through the skin.  
May cause skin and eye irritation.  
May cause reproductive/developmental damage from repeated oral exposure.  
May cause organ damage from repeated oral exposure at high doses.  
Avoid eye and skin contact and avoid inhalation

ECOTOXICITY  
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

### Section 3. Composition/information on Ingredients

Substance/preparation	Preparation				
<b>Information on hazardous ingredients *</b>					
Common name	CAS No.	Value	EC Number	Symbol	R-Phrases
Difenoconazole	119446-68-3	250 g/L	-----		
Solvesso 200	64742-94-5	> 60%	265-198-5		
C11 Alcohol ethoxylate, 5EO	34398-01-1	< 6%	500-084-3		
CaABS/alkylaryl sulfonate	-----	< 5%			

- **Occupational Exposure Limit(s), if available, are listed in section 8**

### Section 4: First-Aid Measures

**First Aid:**

**Inhalation:** Remove victim to fresh air. Seek medical advice.

**Ingestion:** Do not induce vomiting. Wash out mouth with plenty of water.  
Get medical attention. Never give anything by mouth to an unconscious person.

**Skin contact:** Remove contaminated clothing. Wash away remainder with water and soap.  
Consult a doctor in the event of any complaints.

**Eye contact:** Wash out with plenty of water with the eyelid held wide open for at least 15 minutes.  
Immediately get medical attention.

**Notes to a physician:** No specific antidote known. Treat symptomatically and give supportive therapy.



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### Section 5: Fire-Fighting Measures

#### Extinguishing media

**Suitable:** For small fire: carbon dioxide, dry chemical.  
For large fire: Water spray, water fog, foam.

**Special Procedures:** Exercise caution when fighting any chemical fire. Dike fire control water for later disposal.  
**Special Exposure hazards:** Thermal decomposition may generate: carbon monoxide, carbon dioxide, nitrogen oxides, chlorides

**Protection of fire-fighters:** Do not enter fire without proper protective equipment, including respiratory protection. Self-contained breathing apparatus and total protection required in enclosed areas.

### Section 6: Accidental Release Measures

**Personal precautions:** Wear appropriate suitable protective clothing (see section 8)

**Environmental precautions:** Dispose of this material and its container at a waste collection point in accordance with national and regional regulations. If the product has contaminated surface water, inform the appropriate authorities.

**Methods for cleaning up:** Clean up any spills as soon as possible, using an absorbent material to collect it.

### Section 7: Handling and Storage

**Handling:** Avoid ingestion, skin and eye contact. Prevent entry to sewer and public waterways. Keep out of the reach of children. When using, do not eat, drink or smoke.

**Storage:** Store in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. (<50°C)  
As a Class 9 Substance with Ecotoxicity Classifications storage of Mirage 450 Fungicide must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting the secondary containment provisions of the HSNO Emergency Management Regulations.

**Packaging materials suitable:** Plastic containers

### Section 8: Exposure Controls/Personal Protection

**Industrial hygiene:** Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Wash clothing before re-using. Wash hands thoroughly after handling.

**Hygiene measures:** When handling do not eat, drink or smoke. Wash hands thoroughly after handling. Wash clothing separately before re-use.

#### Personal protective equipment:

**Respiratory system:** During spraying wear suitable respiratory equipment

**Skin and body:** Wear suitable protective clothing. Chemical resistant boots.

**Hands:** Chemical resistant gloves.

**Eyes:** Safety goggles or face shield.

**TLV-TWA [mg/m3]:** Difenconazole: Not established

### Section 9: Physical and Chemical Properties

**Physical state:** Liquid  
**Colour:** Clear yellowish  
**pH value:** 4.0-7.0  
**Molecular weight:** Difenconazole: 406.3  
**Density:** 1.07 – 1.09 mg/l



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Flash point [°C ]: >100  
Log P octanol: Difenconazole: 4.4 (25 °C)  
Flammability: Not flammable

### Section 10: Stability and Reactivity

**Physico-chemical Stability:** Stable under normal conditions  
**Hazardous decomposition products:** Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxides, chlorides.  
**Hazardous reactions :** Hazardous polymerization will not occur  
**Conditions to avoid:** Direct sunlight, sources of heat, open flame. Decomposes upon heating.

### Section 11: Toxicological Information

**Acute toxicity - Oral:** LD<sub>50</sub> (rat)= > 2,000 mg/kg  
**Acute toxicity - Dermal:** LD<sub>50</sub> (rat) > 2,000 mg/kg  
**Acute toxicity – Inhalation:** LC<sub>50</sub> (rat) >1.75 mg/L (4 hours)  
**Skin irritation:** Mildly irritating (rabbit).  
**Eye irritation:** Moderately irritating (rabbit).  
**Sensitization :** Non sensitizer  
**Carcinogenicity:** Not carcinogenic  
**Mutagenicity:** Not mutagenic  
**Reproduction toxicity:** Not teratogenic in animal experiments

### Section 12: Ecological Information

**96 H-LC50 – Rainbow trout** 0.39 mg/l  
**LD50 Birds [mg/l]** Technical: >2000  
**Bees LD50 {µ/Bee}** >100

### Section 13: Disposal Considerations

**Methods of disposal:**  
**Container Disposal**  
Ensure container is empty. Triple rinse empty container and add rinsate to spray tank. Recycle empty container through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Otherwise crush or puncture and bury in a suitable landfill. DO NOT reuse this container for any other purpose.  
**Product disposal**  
Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

### Section 14: Transport Information

**UN Number** 3082  
**Proper shipping name** Environmentally hazardous substance, Liquid, N.O.S. (Difenconazole)  
**DG Class** 9  
**Packing Group** III  
**Hazchem Code** 2X  
**Marine Pollutant** Yes  
**IER Guide page** 47

**National transport regulations:** Do not carry this product on a passenger service vehicle.

**Segregation:** Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.



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### Section 15: Regulatory Information

#### New Zealand Regulatory Information:

**NZFSA Approval:** Registered pursuant to the ACVM Act 1997. No P8328  
See [www.nzfsa.govt.nz/acvm](http://www.nzfsa.govt.nz/acvm) for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval No. HSR100519  
See [www.ermanz.govt.nz](http://www.ermanz.govt.nz) for registration conditions

**HSNO Classifications:** 6.1D, 6.3B, 6.4A, 6.8A, 6.9B, 8.3A, 9.1B



#### ECOTOXIC

**APPROVED HANDLER** - This product must be under the care of an approved handler when it is used by a commercial contractor.  
**RECORD KEEPING** - Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.

### Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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#### **HISTORY**

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