

# **SAFETY DATA SHEET**

According to HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

# Section 1. Identification of the material and the supplier

Product: Difference 250EC

Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: Adria Crop Protection Solutions

Address: 407 State Highway 16

Kumeu 0841, Auckland

Telephone: +64 9 412 9817 Fax: +64 9 412 9807 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: HSR001692** 

### **Pictograms**







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 4	H227	Combustible liquid.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.

<b>Prevention Code</b>	Prevention Statement	
P103	Read carefully and follow all instructions.	
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.	
P260	Do not breathe fumes, vapours or spray.	

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

Response code	Response Statement
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use water, foam, carbon dioxide or dry chemical for extinction.

Storage Code	Storage Statement	
P403 + P235	Store in a well-ventilated place. Keep cool.	

<b>Disposal Code</b>	Disposal Statement
P501	Refer to Section 13.

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Difenoconazole	22-25%	119446-68-3
Not hazardous	To bal	

### 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. Continue rinsing. If eye irritation persists: Get

medical advice/attention.

If on Skin Wash affected areas with soap and water. If skin irritation occurs: Get

medical advice/attention.

If Swallowed Rinse mouth. If swallowed do NOT induce vomiting. Never give anything

to an unconscious person. Seek medical attention immediately if required.

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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes

difficult.

## Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** May be harmful if swallowed.

**Inhalation:** Not applicable.

**Skin:** Causes mild skin irritation. **Eye:** Causes severe eye irritation.

**Chronic:** May cause damage to organs through repeated or prolonged exposure.

# Section 5. Fire Fighting Measures

Hazard Type	This product is combustible.	
Hazards from combustion	Thermal decomposition generates: Carbon dioxide. Carbon	
products	monoxide. Nitrogen oxides. Halogens.	
Suitable Extinguishing media	lia Small fire: Dry chemical.	
	Large fire: Alcohol foam. Water spray. Water fog.	

	Do not use a heavy water stream.
Recommended protective	Wear proper protective equipment. Exercise caution when
clothing & Precautions for	fighting any chemical fire. Avoid (reject) fire-fighting water
firefighters	to enter environment.
HAZCHEM CODE	3Z

### **Section 6.** Accidental Release Measures

### **Personal precautions:**

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately.

### **Environmental precautions:**

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to Local Council regulations.

### Section 7. Handling and Storage

## **Precautions for Handling:**

- Keep out of reach of children.
- Read carefully and follow all instructions.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Use grounded electrical/mechanical equipment.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

### **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store in a well-ventilated place. Keep cool.
- Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.
- Keep container closed when not in use.

# Section 8 Exposure Controls / Personal Protection

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

TWA STEL
Substance 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 APRIL 2022 13TH EDITION.

### **Engineering Controls / Industrial Hygiene**

Local exhaust and general ventilation must be adequate to meet exposure standards. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

# **Personal Protection Equipment**



Eyes	Safety goggles with side-shields.
Hands	Wear suitable gloves resistant to chemical penetration e.g. nitrile rubber gloves with a minimum thickness of 0.4 mm.
Skin	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
Respiratory	Where excessive vapour may result, wear approved mask.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use. Wash hands and face before breaks and after work.

# **Section 9** Physical and Chemical Properties

Appearance	Liquid
Colour	Brown
Odour	Characteristic
Odour Threshold	Not available
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	75°C
Flammability	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.07 g/kg
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	470°C
<b>Decomposition Temperature</b>	Not available
Viscosity	2.3 - 2.5 mm2/s, 40°C
Particle Characteristics	Not available
Surface tension	36.1 (25°C)

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	Oxidizing agent. Strong acids. Strong bases.
Hazardous Decomposition	Thermal decomposition generates: Carbon
Products	monoxide. Carbon dioxide. Nitrogen oxides.
	Halogens. Hydrochloric acid.

# Section 11 Toxicological Information

## **Acute Effects:**

acute Enecesi		
Swallowed	Not applicable.	
Dermal	Not applicable.	
Inhalation	Not applicable.	
Eye	Causes serious eye irritation.	
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 May cause damage to organs through	
	prolonged or repeated exposure.

## **Acute Toxicity -**

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Difenoconazole (119446-68-3)	200 -2000mg/kg (Rats),	>2000mg/kg	-

# Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	Toxic to aquatic life with long lasting effects.
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Acute fish toxicity:	LC50 96h fish [mg/l] = 3.1
Toxicity for daphnia:	48 Hour-EC50 - Daphnia magna [ppm] = 3.6
Toxicity to algae:	IC50 72h Algae [mg/l] = 1.2
Precautions:	Do not allow to enter waterways.

# **Section 13. Disposal Considerations**

### **Disposal Method:**

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



### **Empty container precautions:**

Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Avoid release to the environment.

# Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2020



## Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (Difenoconazole, 250 G/L)	
Marine Pollutant	Yes	

<b>Special Provisions-</b>	If the product's individual container is below 5L/kg, it can be
Limited Quantities	transported as a non-DG as long as the product packaging is still
	labelled as per DG requirements and the driver is given safety
	information in accordance with Chapter 3.4 of the UNRTDG.

### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR001692

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	1000L	
Fire Extinguisher Quantities (Schedule 4)	500L – 2x required	
Emergency Response Plan (Schedule 5)	1000L	
Secondary Containment (Schedule 5)	1000L	
Tracking (Schedule 26)	Not required	
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls	
	document - HSR001692	
HSNO Additional Controls (Restrictions of use)		
77A	This substance must not be applied onto or	
	into water.	
ACVM Act and Regulations		
ACVM Approval No	P7387	
See <u>www.foodsafety.govt.nz</u> for registration		
controls		

### **Section 16** Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

#### Glossary

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC<sub>50</sub> Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD<sub>50</sub> 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 April 2022 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 Adria, if further information is required.

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