

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Mirano WG
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)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023 v2

Section 2. Hazards Identification

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

EPA Approval No: HSR000615

Pictograms





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid release to the environment.

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Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.

Storage Code	Storage Statement
None allocated	Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds and sources of ignition. Protect from extreme temperatures.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Cyprodinil	50.00	121552-61-2
Not hazardous	To bal	

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Flush eyes immediately and continue for at least 15 minutes. Seek medical

attention.

If on Skin Wash immediately with soap and water. Do not rub skin. Seek medical

attention if needed.

If Swallowed If swallowed do NOT induce vomiting. For advice, contact the National

Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.

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: Not applicable.

Eye: Not applicable.

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

Treatment: Treat according to symptoms (decontamination, vital functions). No known

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.	
Hazards from combustion products	Hazardous products of combustion or toxic fumes	
	may be released.	
Suitable Extinguishing media	Make use of water fog or fine spray, foam, dry	
	chemical, or carbon dioxide to extinguish fires.	
Recommended protective clothing	Wear SCBA and chemical-protective clothing.	
& Precautions for firefighters		
HAZCHEM CODE	3Z	

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Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as per Section 8. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke whilst using the product.

Environmental precautions:

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

Spill and Disposal procedures:

Clean spills, being careful not to create dust and place in waste containers. Shovel the absorbed spills into drums, then add hydrated lime and cover with soil. Wash contaminated area and prevent material from entering waterways. Ensure the packaging is empty. Rinse the packaging and add the residue to the spray tank. If allowed under local regulations, burn if circumstances, especially wind direction permit, otherwise crush and bury in an approved local authority facility. DO NOT reuse this container for any other purpose.

Section 7. Handling and Storage

Precautions for Handling:

- Keep out of reach of children.
- Read carefully and follow all instructions.
- Do not breathe fumes, vapours or spray.
- Ventilation required.
- Keep away from: sparks, open flame and direct sunlight.
- Avoid release to the environment.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds and sources of ignition.
- Protect from extreme temperatures.

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

Ensure there is sufficient ventilation of the area.

Personal Protection Equipment



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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	Wear respiratory protection if ventilation is inadequate. Use particle filter
	with medium efficiency for solid and liquid particles.
General	Keep away from food, drink and animal feedstuffs. No eating, drinking or
	smoking during use and wash hands and face before breaks and after work.

Section 9 Physical and Chemical Properties

Appearance	Granules
Colour	Brown
Odour	Characteristic, weak
Odour Threshold	Not available
pH	7 - 11 at 1.0 % w/v
Boiling Point	Not available
Melting Point	> 78 °C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	0.48 g/cm ³
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous reactions	None known.	
Conditions to Avoid	Avoid excessive temperatures and sources of	
	ignition.	
Incompatible Materials	None known.	
Hazardous Decomposition	None known.	
Products		

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.

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STOT/RE	May cause damage to organs through prolonged
	or repeated exposure.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
Cyprodinil (121552-61-2)	>2000mg/kg (Rats),	> 2,000 mg/kg, rat.	LC50 (4h) > 2,000 mg/m3 air, rat.

Section 12. Ecotoxicological Information

Ecological effects information	Very 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) Rainbow trout > 6.0 mg/l.	
Toxicity for daphnia:	EC50 Daphnia magna 0.14 mg/l.	
Toxicity to algae:	E_r C50 (72h) Selenastrum capricornutum > 4.0 mg/l.	
Precautions:	Do not allow to enter waterways.	

Section 13. Disposal Considerations

Disposal Method:

When emptying container, triple rinse and add remaining material to spray tank. Do not re-use containers. Return the 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	3077	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
	N.O.S. (CYPRODINIL)	
Marine Pollutant	Yes	
Special Provisions-	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.	

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Section 15 Regulatory Information

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

EPA Approval Code: HSR000615

HSW (HS) Regulations 2017	Trigger Quantity			
Certified Handlers	Not required			
Location Certificate	Not required			
Signage Trigger Quantities (Schedule 3)	100Kg			
Emergency Response Plan (Schedule 5)	100Kg			
Secondary Containment (Schedule 5)	100Kg			
Tracking (Schedule 26)	Not required			
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls			
	document - HSR000615			
HSNO Additional Controls (Restrictions of use)				
77A	This substance must not be applied onto or			
	into water.			
Hazardous Property Controls Notice 2017				
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate			
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators			
HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances			
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides.			
ACVM Act and Regulations				
ACVM Approval No	P8170			
See <u>www.foodsafety.govt.nz</u> for registration controls				
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

EC50Median effective concentration.EELEnvironmental Exposure Limit.EPAEnvironmental Protection Authority

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC₅₀ Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD₅₀ 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

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- 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

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

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