

# SAFETY DATA SHEET

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

# Section 1. Identification of the material and the supplier

Product: Renovo
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 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)3

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 28 March 2023 v2

## Section 2. Hazards Identification

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

**EPA Approval No: HSR100842** 

## **Pictograms**







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
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.

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe dust.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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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.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333+ P313	If skin irritation or rash occurs: Get medical advice/ attention.

Storage Code	Storage Statement
None allocated	

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

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%)	CAS NUMBER.
Cyprodinil	37.5	121552-61-2
Fludioxonil	25.0	131341-86-1
Not hazardous	To bal	

## Section 4. First Aid Measures

## Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. If eye irritation persists:

Get medical advice/attention.

If on Skin Immediately flush body and clothes with large amounts of water. Remove

contaminated clothing and footwear. Wash affected areas with soap and water. If skin irritation or rash occurs: Get medical advice/ attention.

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:** Not applicable. **Inhalation:** Not applicable.

**Skin:** May cause an allergic skin irritation.

**Eve:** Not applicable.

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

**Treatment:** Treat symptomatically. Gastric lavage, then charcoal (carbo medicalis) and

sodium sulphate.

#### Section 5. Fire Fighting Measures

Hazard Type	This product is Non-Flammable.	
Hazards from combustion	In a fire, formation of toxic and/or irritant substances can	
products	be expected.	
Suitable Extinguishing media	<b>ia</b> Extinguish warehouse and factory fires using dry chemical	
	extinguisher, alcohol-resistant foam, carbon dioxide.	

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Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing.
HAZCHEM CODE	2Z

#### 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:**

Sweep up 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:**

- Read carefully and follow all instructions.
- Do not breathe dust.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Ensure adequate ventilation.
- Cleaning water should be disposed of in appropriate manner.
- Wear protective clothing as detailed in Section 8.

# **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.
- 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	Wear 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. Particle filter with
	medium efficiency for solid and liquid particles.
General	Avoid contact with skin and eyes and inhalation of dust from concentrate or spray mist. When mixing or applying, wear protective clothing, including face shield, impervious gloves and footwear. If clothing becomes contaminated with product, remove clothing immediately. DO NOT eat, drink or smoke while using. Wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing daily after work.

# Section 9 Physical and Chemical Properties

Appearance	Granule
Colour	Brown
Odour	Characteristic
Odour Threshold	Not available
pH	9 - 11
Boiling/Melting Point	Cyprodinil: 75.9°C
	Fludioxonil: 199.8°C
Freezing Point	Not available
Flash Point	Not flammable
Flammability	Not highly flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	Cyprodinil: 1.21 g/l (20°C)
	Fludioxonil: 1.54 g/l (20°C)
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not explosive
<b>Decomposition Temperature</b>	Not available
Viscosity	Not available
Particle Characteristics	Not available
Surface tension	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	Heat and light.
Incompatible Materials	Strong acids and alkalis.
Hazardous Decomposition	None known.
Products	

# Section 11 Toxicological Information

# **Acute Effects:**

Acute Ellects.	
Swallowed	Not applicable = > 2 000 mg/kg (Cyprodinil)
	> 5 000 mg/kg (Fludioxonil)
Dermal	Not applicable = > 2 000 mg/kg (Cyprodinil)
	> 2 000 mg/kg (Fludioxonil)
Inhalation	Not applicable = > 1 200 mg/m3 air (Cyprodinil)
	> 2 600 mg/m3 air (Fludioxonil)
Eye	Not applicable.

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<b>Skin</b> May cause an allergic skin reaction.
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# **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.	

# Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	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:	Cyprodinil: LC50 (96h) for rainbow trout 2.41, bluegill sunfish 2.17 (static) and 3.2 mg/ $\ell$ (flow-through). Fludioxonil: LC50 (96h) for bluegill sunfish 0.74, catfish 0.63, common carp 1.5, rainbow trout 0.23 mg/ $\ell$ .	
Toxicity for daphnia:	Cyprodinil: EC50 (48h) 0.033 mg/ $\ell$ . Fludioxonil: LC50 (48h) 0.40 mg/ $\ell$ .	
Toxicity to algae:	Cyprodinil: EbC50 (72h) for Pseudokirchneriella subcapitata 2.6 mg/ $\ell$ . Fludioxonil: EC50 (72h) for Scenedesmus subspicatus 0.93 mg/ $\ell$ ; EbC50 for Selenastrum capricornutum 0.025 mg/ $\ell$ .	
Precautions:	Do not allow to enter waterways.	

# **Section 13. Disposal Considerations**

#### **Disposal Method:**

Ensure the container is empty. Rinse empty container and add the residue to the spray tank. If allowed under local Territorial Authority District Plans 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.



## **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

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Packing Group	III	
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	
	N.O.S. (CYPRODINIL + FLUDIOXONIL)	
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.	

# Section 15 Regulatory Information

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

EPA Approval Code: HSR100842

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 - HSR100842		
HSNO Additional Controls (Restrictions of use)			
77A	The substance may not be applied into,		
	onto, or over water.		
ACVM Act and Regulations			
ACVM Approval No	P8740		
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

EC<sub>50</sub> 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

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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

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Please contact Adria, if further information is required.

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