

# SAFETY DATA SHEET

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

#### Section 1. Identification of the material and the supplier

Curalan Product: 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

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

0800 734 607 (24hr)3 **Emergency No:** 

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 14 March 2023

### **Hazards Identification** Section 2.

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2023

**EPA Approval No: HSR100514** 

### **Pictograms**









Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Serious eye damage Cat. 1	H318	Causes serious eye damage.
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.
Hazardous to soil organisms	H423	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates

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<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and
	understood.
P260	Do not breathe dust, fumes, gas, mist, vapours or spray.
P271	Use only outdoors or in a well-ventilated area.
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.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
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.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

# Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Fluazinam	50.0	79622-59-6

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. Seek medical assistance

immediately should irritation persist.

If on Skin Wash immediately with soap and water. Do not rub skin. May cause slight

irritation. Wash contaminated clothing before reuse. If skin irritation or

rash occurs: Get medical advice/attention.

If Swallowed Do NOT induce vomiting if swallowed. May be harmful. A glass of water

may be given. For advice, contact the National Poisons Centre on 0800

POISON (0800 764766) or seek medical attention 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.

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

Symptoms:

**Ingestion:** Not applicable. **Inhalation:** Harmful if inhaled.

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

**Eye:** Causes serious eye damage.

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

Suspected of damaging fertility or the unborn child.

**Treatment:** No known specific antidote. Treat symptomatically (decontamination, vital

functions).

# Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.
Hazards from combustion products	Thermal decomposition generates: carbon dioxide, carbon monoxide, nitrogen oxide, sulfur oxide, sulfides.
Suitable Extinguishing media	Dry chemical, carbon dioxide water spray, alcohol resistant foam.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and appropriate chemical-protective clothing.
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. Prevent material from entering waterways. 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.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Use personal protective equipment as required.
- Cleaning water should be disposed of in appropriate manner.

### **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- · Keep out of reach of children.
- Store locked up.
- Store in original container tightly closed and in a locked, cool, dry, ventilated area away from foodstuffs or stockfeed.
- As a Class 9 Substance with Ecotoxicity Classifications, storage of Curalan must be carried out in such a manner as to prevent contamination of waterways. Stores

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containing more than 250L of Curalan require bunding and are subject to signage. Storage must generally be in accordance with The New Zealand Standard for the Management of Agrichemicals (NZS8409).

## 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 adequate ventilation.

### **Personal Protection Equipment**



Eyes	Wear safety goggles with side-shields or full-face shield.	
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	<b>espiratory</b> Wear respiratory protection if ventilation is inadequate. Particle filter wit	
	medium efficiency for solid and liquid particles.	
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	Yellow
Odour	Characteristic
Odour Threshold	Not available
pH	4.5 – 4.9
Boiling Point	Not available
Melting Point	> 100°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
<b>Upper and Lower Explosive Limits</b>	Not explosive
Vapour Pressure	Not available
Vapour Density	Not available
Density	1200 - 1300 g/L
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available
<b>Decomposition Temperature</b>	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

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# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.	
Possibility of hazardous	ardous None known.	
reactions		
Conditions to Avoid	Sunlight, open flame, sources of heat void excessive	
	temperatures.	
Incompatible Materials None known.		
<b>Hazardous Decomposition</b>	Thermal decomposition generates: carbon monoxide, carbon	
Products	dioxide, nitrogen oxides, sulfur oxide, sulfides.	

# Section 11 Toxicological Information

## **Acute Effects:**

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Harmful if inhaled.
Eye	Causes severe eye damage.
Skin	May cause an allergic skin reaction.

### **Chronic Effects:**

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Suspected of damaging fertility or the unborn child.	
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)
Product			
Fluazinam (79622-59-6)	>5000 mg/kg	>2000mg/kg	0.463mg/l (Rat)

# Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	Very toxic to aquatic life with long lasting effects	
	Hazardous to soil organisms	
	Hazardous to terrestrial vertebrates	
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 (96 h) for rainbow trout 0.036 mg/l.	
Toxicity for daphnia:	LC50 (48 h) 0.22 mg/l	
Toxicity to algae:	EC50 (96 h) for Selenastrum capricornutum 0.16 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. Return the empty container to an AgRecovery collection point for disposal.



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### **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 (fluazinam)	
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: HSR100514

HSW (HS) Regulations 2017	Trigger Quantity			
Certified Handlers	Not required			
Signage Trigger Quantities (Schedule 3)	100L			
Emergency Response Plan (Schedule 5)	100L			
Secondary Containment (Schedule 5)	100L			
Tracking (Schedule 26)	Not required			
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls			
	document - HSR100514			
HSNO Additional Controls (Restrictions of use)				
77A	This substance must not be applied onto or			
	into water.			
ACVM Act and Regulations				
ACVM Approval No	P8299			
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

Product Name: Curalan SDS Prepared by: Technical Compliance Consultants (NZ) Ltd

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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

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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