

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Cyrus
Product Use: Insecticide

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: 14 March 2023 v2

Section 2. Hazards Identification

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

EPA Approval No: HSR100355

Pictograms:







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
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 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	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H431	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates	H441	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fume, mist or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
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.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/w)	CAS NUMBER.
Imidacloprid	35	138261-41-3
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 Take off contaminated clothing and wash before re-use. 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. IF SWALLOWED: Immediately call a POISON

CENTER or doctor/physician.

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: Harmful if swallowed. **Inhalation:** Not applicable.

Skin: May cause mild skin irritation.

Eye: Causes serious eye irritation.

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

Treatment: No known specific antidote. Treat symptomatically.

Section 5. Fire Fighting Measures

HAZCHEM CODE	3Z	
firefighters		
clothing & Precautions for	chemical-protective clothing.	
Recommended protective	Wear Self-contained breathing apparatus and appropriate	
media	or sand to extinguish fires.	
Suitable Extinguishing	Use water (not direct jet), foam, dry chemical, carbon dioxide	
	carbon monoxide and nitrogen oxides.	
	hazards in a fire: Hydrogen chloride, hydrogen cyanide,	
Hazards from products	Products of combustion are toxic and or irritants. Specific	
Hazard Type	This product is not flammable or combustible.	

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. Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal. 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 fume, mist or spray.
- · Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear appropriate protective clothing, refer to section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store securely out of reach of 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 and direct sunlight.

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	Chemical goggles or face shield with safety glasses.
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.
	Clean protective gear and contaminated equipment with soap or soda solution.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	White
Odour	Characteristic
Odour Threshold	Not available
pH	7.1
Melting/Boiling Point	>180°C
Freezing Point	Not available
Flash Point	No flash until ≥ 100 °C
	Not determinable due to boiling at higher temperatures.
Flammability	Not available
Upper and Lower Explosive	Not available
Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	+/- 1.15 g/cm³ at 20 °C
Water Solubility	Not available
Ignition Temperature	>400°C
Decomposition Temperature	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	None known.
reactions	

Conditions to Avoid	Avoid intense heat. Keep away from foodstuffs, acids
	and alkalis.
Incompatible Materials	None under normal conditions. Poisonous fumes may be
	released during fire.
Hazardous Decomposition	Specific hazards in a fire: Hydrogen chloride, hydrogen
Products	cyanide,
	carbon monoxide and nitrogen oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD50, rat (male): 750 mg/kg,
	(female): 1020 mg/kg.
Dermal	Not applicable. LD50, rat: > 5000 mg/kg.
Inhalation	Not applicable. LC50, rat (4h): > 5.5 mg/L.
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	Causes damage to organs through prolonged or		
	repeated exposure.		

Individual component information:

Acute Toxicity:

Chemical Name	Oral - LD50	Dermal - LD50	Inhalation - LC50
Imidacloprid	130mg/kg	-	-
(138261-41-3)	(mouse)		

Section 12. Ecotoxicological Information

Ecological effects information	Very toxic to aquatic life with long lasting effects		
	Hazardous to soil organisms		
	Hazardous to terrestrial vertebrates		
	Hazardous to terrestrial invertebrates		
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:	LD50 (96 h): 210 mg/l rainbow trout (Salmo gairdneri)		
	LD50 (96 h): 280 mg/l carp (Cyprinus carpio)		
Toxicity for daphnia:	EC50 (48 h): 0,055 mg/l Hyalella azteca		
	EC50 (48 h): 85 mg/l Water flea		
Toxicity to algae:	EC50 (72 h): > 100 mg/l green alga		
	(Pseudokirchneriella subcapitata)		
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.



Product Name: Cyrus SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 14 March 2023 Tel: 64 9 475 5240 www.techcomp.co.nz

Page 5

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	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE	
5	(IMIDACLOPRID)	
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: HSR100355

HSW (HS) Regulations 2017	Trigger Quantity			
Certified Handlers	Not required			
Location Certificate	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 - HSR100355			
HSNO Additional Controls (Restrictions of use)				
77A	 a). The substance must not be applied onto or into water. b). The maximum application rates for Cyrus are: 81.2 g ai/ha 4 times per season, or 433 g ai/ha once per season. c). The method of application of the substance shall be limited to ground-based application only. 			
ACVM Act and Regulations				
ACVM Approval No	P8067			
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.

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

- 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.

Issue Date: 14 March 2023 Review Date: 14 March 2028