

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Varicur 450EW

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)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 26 April 2023 v2

Section 2. Hazards Identification

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

EPA Approval No: HSR101239

Pictograms







Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Aspiration hazard Cat. 1	H304	May be fatal if swallowed and enters airways.
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 terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates

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.
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
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P331	Do NOT induce vomiting.
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.
P309 + P311	IF exposed or you feel unwell: Call a POISON CENTER or
F303 + F311	doctor/physician.
P337 + P313	If eye irritation persists: 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	Content (%w/v)	CAS NUMBER.
Prochloraz	45.00	67747-09-5
Non-hazardous ingredients	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

immediately call a POISON CENTRE or doctor/physician.

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

medical advice/attention.

If Swallowed If swallowed, rinse mouth, do NOT induce vomiting unless directed to do

so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. For further advice, contact the National Poisons Centre on 0800 POISON (0800

764766) 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 fatal if swallowed and enters airways.

Inhalation: Not applicable.

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

Chronic: May cause damage to organs through single, prolonged or repeated

exposure.

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

functions)

Section 5. Fire Fighting Measures

Hazard Type	This product is not flammable.	
Hazards from products	Carbon monoxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, organochloric compounds.	
Suitable Extinguishing	Water spray, foam, dry extinguishing media, carbon dioxide.	
media	Do not use a high-volume water jet.	
Recommended protective clothing & Precautions for firefighters	Wear SCBA and chemical-protective clothing.	
HAZCHEM CODE	3 Z	

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:

- Read carefully and follow all instructions.
- Do not breathe fumes, vapours, or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Ensure adequate ventilation.
- Cleaning water should be disposed of in appropriate manner.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Keep away from children.
- Store locked up.
- Store in original container tightly closed cool, well ventilated.
- Protect from extreme temperatures.
- Store away from incompatible materials listed in Section 10.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL
Substance ppm mg/m³ ppm mg/m³

No ingredient has 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	Safety goggles with side-shields.
Skin	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)). 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	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	Oil in water emulsion
Colour	Off-white liquid
Odour	Characteristic odour
Odour Threshold	Not available
pH	6-9
Melting Point/Boiling	Not available
Point	
Freezing Point	Not available
Flash Point	Not available
Flammability	Not flammable
Upper and Lower	Not available
Explosive Limits	
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.5 g/L
Water Solubility	Not available
Octanol/water partition	Not available
coefficient:	
Auto Ignition	Not available
Temperature	
Decomposition	Not available
Temperature	
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	None known.
reactions	
Conditions to Avoid	Temperature extremes
Incompatible Materials	None known.
Hazardous Decomposition	Carbon monoxide, hydrogen chloride, hydrogen fluoride,
Products	nitrogen oxides, organ chloric compounds.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 = Rats = 1023 mg/kg Mice 1600-2400 mg/kg
Dermal	Not applicable. LD50 (rat) 2100mg/kg.
Inhalation	Not applicable. Rats >2.16 mg/l (4 h)
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive Toxicity	Not applicable.	
Germ Cell Mutagenicity	Not applicable.	
Aspiration	May be fatal if swallowed and enters airways.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Section 12. Ecotoxicological Information

Ecological effects information	Very toxic to aquatic life with long lasting effects.	
	Hazardous to terrestrial vertebrates.	
Persistence and degradability	dability 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 1.5, bluegill sunfish 2.2	
	mg/l	
Toxicity for daphnia:	LC50 (48 h) 4.3 mg/l	
Toxicity to algae:	EbC50 (72 h) for Selenastrum capricornutum 0.1 mg/l;	
	ErC50 1.54 mg/l.	
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



Product Name: Varicur 450EW SDS Prepared by: Technical Compliance Consultants (NZ) Ltd Date of SDS: 26 April 2023 Tel: 64 9 475 5240 www.techcomp.co.nz

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Road, Rail, Sea and Air Transport

UN No	3082	
Class - Primary	9	
Packing Group	III	
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	
	N.O.S. (PROCHLORAZ SOLUTION)	
Marine Pollutant	Yes	
Special Provisions-	If the product's individual container is below 5L, 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.	

Regulatory Information Section 15

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

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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		
HSNO Additional Controls (Restrictions of	Refer to EPA www.epa.govt.nz for		
use)	controls document - HSR101239		
77A - Active ingredient or component	The following limits are set for		
specification - impurity limits, purity	toxicologically relevant impurities in the		
requirements, isomer ratios and other	active ingredient prochloraz used to		
specifications	manufacture this substance: - 2,3,7,8		
	tetrachlorodibenzo-p-dioxin (TCDD) = 0.1		
	μ g/kg maximum- 2,4,6-trichlorophenol = 1		
	g/kg maximum		
77A	The substance must not be applied onto or		
	into water.		
	Water in all its physical forms, whether		
	flowing or not, and whether over or under		
	ground, but does not include water in any		
	form while in a pipe, tank or cistern or		
	water used in the dilution of the substance		
	prior to application.		
77A - Application method restrictions	This substance must be applied by ground-		
	based methods only. Ground-based		
	methods of applying pesticides include, but		
	are not limited to, application by ground		
	boom, airblast or knapsack, and do not		
	include aerial application methods.		
Hazardous Property Controls Notice 2017			
HPC Notice Part 4 Subpart B - Use of ecotoxic	The maximum application rate of this		
substances in any place	substance is 1.5 L/ha (0.675 kg of		
	prochloraz/ha), with a maximum application		
ACVM Act and Deculations	frequency of three times per season.		
ACVM Act and Regulations	D0402		
ACVM Approval No	P9482		
See <u>www.foodsafety.govt.nz</u> for registration			
controls			

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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

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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