

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Vega
Product Use: Herbicide

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

Section 2. Hazards Identification

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

EPA Approval No: HSR007818

Pictograms







Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 4	H227	Combustible liquid.
Aspiration hazard Cat. 1	H304	May be fatal if swallowed and enters airways.
Skin irritation Cat. 2	H315	Causes skin irritation.
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 chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms

Prevention Code	Prevention Statement	
P102	Keep out of reach of children.	
P103	Read carefully and follow all instructions.	
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.	

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.
P362	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or
P301 + P310	doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use dry chemical extinguisher, foam or carbon dioxide
P3/U + P3/8	for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Clethodim	24	99129-21-2
Aromatic solvent	60-70	64742-94-5
Non-hazardous ingredients	To bal	-

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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 with plenty

of soap and water. If skin irritation occurs: Get medical advice/attention.

If Swallowed Rinse mouth. Do NOT induce vomiting. Never give anything to the mouth

of an unconscious person. If vomiting occurs, place victim face

downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed. Call

a POISON CENTRE or doctor/physician if you feel unwell.

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. Immediately call a POISON CENTER or

doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: May be fatal if swallowed and enters airways.

Inhalation: Not applicable.

Skin: Causes skin irritation.

Eye: Causes serious eye irritation.

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

exposure.

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

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is combustible at elevated temperatures.
Hazards from products	Combustion products are toxic and or irritant. Chloride compounds, nitrogen oxides and Sulfur oxides. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.
Suitable Extinguishing media	Extinguish warehouse and factory fires using dry chemical extinguisher or carbon dioxide. DO NOT use direct jet of water.
Recommended protective clothing & Precautions for firefighters	Wear SCBA and 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. 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.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Ensure adequate ventilation.
- 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 a well-ventilated place. Keep cool.
- Store in a cool, dry area, out of direct sunlight (storage temperature should not exceed 38°C).

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- When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of the product that is older than this.
- 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

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations.

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	Respirator (organic vapour and particulate matter) should be used if airborne particles are generated when handling this material.	
General	Keep away from heat, sparks, flames, and hot surfaces. No smoking. 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	Amber
Odour	Aromatic
Odour Threshold	Not available
pH	7,5
Melting Point/Boiling Point	Not available
Freezing Point	Not available
Flash Point	65°C
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	< 1 X 10-2 mPa (20 °C)
Vapour Density	Not available
Density	975 g/L
Water Solubility	Not available
Octanol/water partition coefficient:	Not available
Auto Ignition Temperature	Not available
Decomposition Temperature	Not available

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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	High temperatures.
Incompatible Materials	Oxidising agents, acids and alkali.
Hazardous Decomposition	Combustion products are toxic and or irritant. Chloride
Products	compounds, nitrogen oxides and Sulfur oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50 > 2 000 mg/kg. Clethodim = LD 50 1360mg/kg (rat(f))
Dermal	Not triggered. LD50 > 5,000 mg/kg
Inhalation	Not triggered. LD50 = 2.1 mg/L
Eye	Causes serious eye irritation.
Skin	Causes 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

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Ecological effects information	Toxic to aquatic life with long lasting effects.
	Hazardous to soil organisms.
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 (48 h) > 120 mg/L (Bluegill sunfish)
	Clethodim: Rainbow trout (96hr) = LC50 19mg/l
Toxicity for crustacean	LC50 (48 h) >120 mg/L
(daphnia):	Clethodim: Dahnia Magna (48hr) = EC50 20.2mg/l
Toxicity to algae:	EC50 (5 d) for fresh-water algae 57.8 mg/L
	Clethodim: Marina diatom (5 day) = EC50 = 33mg/l)
Very ecotoxic in the soil	Clethodim: Ryegrass (21d) = EC25 = 0.001043mg/kg
environment	dry wt soil. Soil DT 50 > 30 days: No
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



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. (Clethodim)	
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.	

Section 15 Regulatory Information

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

EPA Approval Code: HSR007818

HSW (HS) Regulations 2017	Trigger Quantity	
Certified Handlers	Not required	
Location Certificate	Not required	
Signage Trigger Quantities (Schedule 3)	1000L	
Fire Extinguishers (Schedule 4)	500L - 2 extinguishers	
Emergency Response Plan (Schedule 5)	1000L	
Secondary Containment (Schedule 5)	1000L	
Tracking (Schedule 26)	Not required	
HSNO Additional Controls	Refer to EPA www.epa.govt.nz for controls	
(Restrictions of use)	document - HSR007818	
77A	The substance must not be applied onto or into water.	
ACVM Act and Regulations		
ACVM Approval No	P7672	
See www.foodsafety.govt.nz 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

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