

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Difflan 500SC

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

Emergency No: 0800 734 607 (24hr)

0800 764 766 (National Poison Centre)

Date of SDS Preparation: 21 March 2023

Section 2. Hazards Identification

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

EPA Approval No: HSR001647

Pictograms





Signal Word: Warning

GHS Classification and Category	Hazard Code	Hazard Statement
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	H423	Hazardous to soil organisms

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P102	Keep out of reach of children.
P260	Do not breathe fumes, vapours or spray.

P273	Avoid release to the environment.
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.
P391	Collect spillage.

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/v)	CAS NUMBER.
Diflufenican	50	83164-33-4
Other ingredients determined not to	To bal	
be hazardous		

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 After contact with skin, wash immediately with soap and water. If skin

irritation 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. Call a POISON CENTRE or a doctor

immediately.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:Not applicable.Inhalation:Not applicable.Skin:Not applicable.Eve:Not applicable.

Chronic: Causes damage to organs through repeated or prolonged exposure.

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

specific antidote.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.	
Hazards from products	Toxic fumes.	
Suitable Extinguishing media	Dry chemical, water spray, foam, carbon dioxide.	
Recommended protective	Wear SCBA and chemical-protective clothing.	
clothing & Precautions for	ning & Precautions for	
firefighters		
HAZCHEM CODE	3Z	

Section 6. Accidental Release Measures

Personal precautions:

Use protective clothing as detailed in Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Rewash contaminated clothing before reuse.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

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.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Ventilation required.

Precautions for Storage:

- Store locked up in a well-ventilated place.
- · Keep containers tightly closed.
- Protect against freezing.
- Keep out of reach of children.
- 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 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.	
Hands	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).	
Skin	Body protection (chemical protection suit, boots) must be chosen depending	
	on activity and possible exposure.	

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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 and wash hands and face before breaks and after work.	

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Beige
Odour	Odourless
Odour Threshold	Not available
pH	7.3
Melting Point/Boiling Point	>100°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.18g/ml approx.
Water Solubility	Not available
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage and handling conditions.
Possibility of hazardous reactions	None under normal storage and use conditions.
Conditions to Avoid	Temperature extremes
Incompatible Materials	Oxidizing agents, acids and alkali.
Hazardous Decomposition	None known at time of publishing.
Products	, -

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50: > 2000 mg/kg, rat.
Dermal	Not applicable.
Inhalation	Not applicable. LC50 (4 hr) (Rat) >2.34 mg/l
Eye	Not applicable.
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	May cause damage to organs through prolonged or	
	repeated exposure.	

Section 12. Ecotoxicological Information

Ecological effects information	rmation Very 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 (96 hr) (Rainbow trout) >56 - 100 mg/l	
Toxicity for daphnia:	LC50 (48 hr) (Daphnia) >10 mg/l	
Toxicity to algae:	LC50 (96 hr) (Green Algae) >10 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



Road, Rail, Sea and Air Transport

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	(DIFLUFENICAN 50%), LIQUID, N.O.S.
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: HSR001647

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 - HSR001647

HSNO Additional Controls (Restrictions of use)		
77A	The substance must not be applied onto or	
	into water.	
	The following application rate is set for this substance: 100 g ai/ha in cereals once per year	
ACVM Act and Regulations		
ACVM Approval No	P7674	
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.

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