

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: 29 October 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR001647

Pictograms





Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1A	H410	Very toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2C	H423	Harmful to the soil environment.	-

Prevention Code	Prevention Statement
P103	Read label before use.
P102	Keep out of reach of children.
P260	Do not breathe fumes, vapours or spray.
P273	Avoid release to the environment.

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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.Eye: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	Dry chemical, water spray, foam, carbon dioxide.
media	W 0004
Recommended	Wear SCBA and chemical-protective clothing.
protective clothing &	
Precautions for	
firefighters	
HAZCHEM CODE	3Z

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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 label before use.
- 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 NOV 2017 9TH 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	>100°C
Point	
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower	Not available
Explosive Limits	
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	Not available
Temperature	
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	None under normal storage and use conditions.
reactions	
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	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

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Section 12. Ecotoxicological Information

Ecological effects information	9.1A = Very toxic to aquatic life with long lasting effects.
_	9.2C = Harmful to the soil environment.
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 5433:2012



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 2017

EPA Approval Code: HSR001647

HSNO Classification: 6.9B, 9.1A, 9.2C

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Not required				
Not required				
100L(9.1A)				
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100L(9.1A)				
Not required				
Refer to EPA <u>www.epa.govt.nz</u> for controls document - HSR001647				
HSNO Additional Controls (Restrictions of use)				
The substance must not be applied onto or				
into water.				
Hazardous Property Controls Notice 2017				
Equipment for class 9 substances must be appropriate				
Records of application of class 9 pesticides and plant growth regulators				
Hazardous substances in a place other than a workplace.				
Qualification required for application of class 9 pesticides				
P7674				

Trigger Quantity

Section 16 **Other Information**

HSW (HS) Regulations 2017

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

Median effective concentration. EC_{50} **EEL** Environmental Exposure Limit. **EPA Environmental Protection Authority**

HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

 LC_{50} 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 WFS Workplace Exposure Limit

References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- Transport of Dangerous goods on land NZS 5433:2012
- HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact Adria, if further information is required.

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