

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Ethosin 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: HSR101238

Pictograms







Irritant

Chronic

Ecotoxic

Signal Word: Warning

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.9B	H373	May cause damage to organs through single, prolonged or repeated exposure.	STOT RE 2
9.1B	H411	Toxic to aquatic life with long lasting effects.	Aquatic Chronic 2
9.2A	H421	Very toxic to the soil environment.	

Prevention Code	Prevention Statement
P103	Read label before use.

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P260	Do not breathe fumes, vapours 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
P314	Get medical advice/attention if you feel unwell.
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 if you feel unwell: Call a POISON CENTER or
P309 + P311	doctor/physician.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
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.
Ethofumesate	50	26225-79-6
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. Cold water

may be used. If skin irritation occurs: get medical advice/attention.

If Swallowed 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. Get medical attention if symptoms appear. Seek medical attention immediately. 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: Causes mild skin irritation. **Eye:** Causes serious eye irritation.

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Chronic:

May cause damage to organs through single, repeated or prolonged exposure. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from products	Carbon oxides (CO, CO2) sulphur oxides (SO2, SO3).
Suitable	SMALL FIRE: Use DRY chemical powder.
Extinguishing media	LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Recommended protective clothing & Precautions for firefighters	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.
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:

Cover or dyke spill and prevent spreading. 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.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Please keep away from temperature extremes.
- Do not ingest. If ingested, seek medical advice immediately and show the container or the label.

Precautions for Storage:

- Store in original container tightly closed, locked, cool, dry, ventilated area away from foodstuffs, fertilisers and seeds.
- Protect from extreme temperatures.
- Keep out of reach of children.
- Stores containing more than 100L of product require emergency response plans and secondary containment systems and are subject to signage.
- Refer to the current standard NZS8409 Management of Agrichemicals.
- 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

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

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.
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 (suspension concentrate)
Colour	White to cream white liquid
Odour	Characteristic
Odour Threshold	Not available
pH	7.7
Melting Point/Boiling	Not available
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	1.089
Water Solubility	Suspends in water
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	None known.
Incompatible Materials	None known.
Hazardous Decomposition	Carbon oxides (CO, CO2) sulphur oxides (SO2, SO3).
Products	

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. LD50: > 2100 mg/kg, rat.
Dermal	Not applicable. LD50 >4100 mg/kg
Inhalation	Not applicable.
Eye	Causes serious eye irritation.
Skin	Causes mild skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	May cause damage to organs through single exposure.	
STOT/RE	May cause damage to organs through prolonged or repeated	
	exposure.	

Section 12. Ecotoxicological Information

Ecological effects information	9.1B = Toxic to aquatic life with long lasting effects.
	9.2A = Very toxic 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:	Ethofumesate:
	LC50 (96 h) for rainbow trout 11.91–20.2, bluegill sunfish
	12.37-21.2, mirror carp 10.92 mg/l.
Toxicity for daphnia:	EC50 (48 h) 13.52-22.0 mg/l.
Toxicity to algae:	EC50 3.9 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.

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, LIQUID,
	N.O.S (ETHOFUMESATE)
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: HSR101238

HSNO Classification: 6.3B, 6.4A, 6.9B, 9.1B

HSW (HS) Regulations 2017	Trigger Quantity		
Certified Handlers	Not required		
Location Certificate	Not required		
Signage Trigger Quantities (Schedule 3)	1000L (9.1B)		
Emergency Response Plan (Schedule 5)	1000L (9.1B)		
Secondary Containment (Schedule 5)	1000L (9.1B)		
Tracking (Schedule 26)	Not required		
For all further controls	Refer to EPA <u>www.epa.govt.nz</u> for controls		
	document - HSR101238		
HSNO Additional Controls (Restrictions of use)			
77A	Please refer to the control document for all		
	controls as above		
Hazardous Property Controls Notice 2017			
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate		
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators		
Hoc Notice Part 3	Hazardous substances in a place other than a workplace.		
HPC Notice Part 4 Subpart A	Site and storage controls for class 9		
	substances		
ACVM Act and Regulations			
ACVM Approval No	P9366		
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 Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact Adria, if further information is required.

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