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### Section 1 – Identification of the substance/preparation and the company

<b>Product Name</b>	Donaghys Ethos
<b>Company</b>	Donaghys LTD
<b>Address</b>	16 Sheffield Crescent PO Box 20 449 Christchurch
<b>Telephone Number</b>	NZ 0800 942 006 or AUS 1800 644 404
<b>Manufacturer Product Code:</b>	AGEFXXXX
<b>Recommended Use</b>	Donaghys Ethos is an early poet-emergence herbicide for the control of Barley grass in pastures, grass weeds in ryegrass turf and for pre-and early emergence weed control in red beet.
<b>Emergency Contact</b>	0800 764 766 (National Poisons Centre)

### Section 2 – Hazard Identification

Classified as hazardous according to criteria in the Hazardous Substances (minimum degrees of hazards) Regulations 2001

**EPA NZ Approval Code:** HSR000826

**Signal Word:** Warning

**GHS Pictogram**



**HSNO Classification**

Hazardous to the aquatic environment chronic Category 2  
Hazardous to soil organisms

**Hazard Statements:** Toxic to aquatic life with long lasting effects.  
Very toxic to the soil environment.

**Prevention Statements:** Keep out of reach of children.  
Read label before use.  
Avoid release to the environment.

**Signal Word:** Warning  
**EPA Approval Code:** HSR000826

### Section 3 – Composition Information

Chemical	CAS No.	Content
Ethofumesate	26225-79-6	500 g/l
Inert Ingredients	Trade Secret	To 100%

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#### Section 4 – First Aid Measures

<b>General</b>	Keep label or packaging available for emergency personal. Show this SDS to emergency personal if requested
<b>If Swallowed</b>	If swallowed, do NOT induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately.
<b>If in eyes</b>	If splashed in eyes, wash out immediately with water for at least 15 minutes. If irritation persists, get medical advice.
<b>If on skin</b>	If skin contact occurs, remove contaminated clothing and flush skin with running water. If irritation occurs, seek medical advice.
<b>If inhaled</b>	If inhaled, move the victim to fresh air immediately. Never give anything by mouth to an unconscious person.

#### Section 5 – Fire-fighting Measures

<b>Flashpoint</b>	N/A
<b>Combustion Products</b>	During a fire toxic fumes may be emitted
<b>Flammability Limits</b>	Not determined
<b>Protective Equipment</b>	Self-contained breathing apparatus, protective gloves and clothing
<b>Extinguishing Media</b>	Dry chemical, water spray (fog), foam or carbon dioxide DO NOT use water jet
<b>HazChem Code</b>	3Z
<b>Thermal decomposition products</b>	Carbon oxides (CO, CO <sub>2</sub> ) Sulphur oxides
<b>Special Fire Fighting Methods:</b>	Addition of water may cause excessive foaming. Vapours may be toxic. Self-contained breathing apparatus required. Prevent run off entering waterways

#### Section 6 – Accidental Release Measures

<b>Spills and Disposal</b>	Exclude all bystanders from the vicinity of the spill and prevent entering waterways. Do not touch or walk through spilled material. Wear the protective equipment recommend in section 8. Stop any leaks or spills when safe to do so. Dam area and prevent entry into drains, streams, watercourses etc. Collect spilled product and place in properly labeled, sealable containers for disposal. Deal with any spillage immediately. Contamination of drain, streams or watercourses etc. is unavoidable If unavoidable warn the local water authority.
<b>Protective Equipment</b>	Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).

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### Section 6 – Accidental Release Measures (cont.)

**Environmental Precautions**

Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.

### Section 7– Handling and Storage

**Storage**

Store in original packaging tightly closed and in a locked, dry, well-ventilated area away from foodstuffs.  
When stored according to recommendations this product should not show signs of degradation for at least two years from the date of manufacture.  
Keep out of reach of children.  
Do not store near waterways. Do not store where damage may occur.

**Handling**

Do not handle until all safety instructions have been read and understood.  
Wear eye / face protection.  
In case of inadequate ventilation wear respiratory protection.  
Contaminated work clothing should not be allowed out of the workplace. Avoid unintended release to the environment.

**Approved Handler**

This product must be under the control of an approved handler at all times. For more information see Regulations 4-6 Hazardous substances (Personnel Qualifications) Regulations 2001.

**Tracking regulations**

N/A

### Section 8 – Exposure Controls/Personal Protection

**These precautions are suggested for conditions where the potential for exposure to the product exists. Emergency conditions may require additional precautions. Observe good work place practices and avoid contact with skin and eyes. Read the label before using. This substance may be harmful if swallowed inhaled or absorbed through the skin. May cause respiratory sensitisation if inhaled. May cause eye irritation. Avoid contact with eyes.**

**Protective Equipment**

Avoid contact with skin and eyes and inhalation of spray mist. When applying or mixing wear eye protection, water proof gloves, chemical resistant boots made of material such as rubber, nitrile, polyvinyl chloride and cotton overalls buttoned to the neck and wrist.

**Gloves** Wear nitrile rubber gloves with a minimum layer thickness of 0.11 mm. Break through time: 480 min This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Respiratory protection** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards

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### Section 8 – Exposure Controls/Personal Protection (cont.)

<b>Hygiene Precaution:</b>	Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing.
<b>Engineering Controls</b>	Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation.

### Section 9 – Physical and Chemical Properties

<b>Form</b>	Liquid
<b>Appearance - colour</b>	Light brown viscous liquid
<b>Odour</b>	Sweet
<b>pH</b>	6.5 - 9
<b>Flash point °C</b>	N/A
<b>Boiling point</b>	100°C
<b>Melting point</b>	70-72°C
<b>Flammability limits</b>	N/A
<b>Oxidising properties</b>	N/A
<b>Explosive properties</b>	N/A

### Section 10 – Stability and Reactivity

<b>Stability</b>	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Hazardous Decomposition Products</b>	Carbon oxides (CO, CO <sub>2</sub> ) Sulphur oxides (SO <sub>2</sub> , SO <sub>3</sub> ...)
<b>Dangerous Reactions</b>	Products arising from combustion or thermal decomposition may be toxic, corrosive or flammable

### Section 11 – Toxicological Information

<b>Acute Toxicity (Active ingredient)</b>	Acute Oral LD <sub>50</sub> (rats) :	>2000 mg/kg
	Acute Dermal LD <sub>50</sub> (rat) :	>4000mg/kg
	Acute inhalation LC <sub>50</sub> (rats) (4hrs) :	> 4,29 mg/l
	Dermal irritation (rat) :	Mild irritant
	Eye irritation (rat) :	Slightly irritant
	Sensitization :	Non Sensitizer
	Carcinogenicity :	Non Carcinogenic
	Mutagenicity:	Not mutagenic
Reproduction toxicity :	None	



### Section 12 - Ecological Information

<b>EPA Classification</b>	Hazardous to the aquatic environment chronic Category 2 Hazardous to soil organism
<b>Soil toxicity</b>	Unknown
<b>Aquatic toxicity</b>	LC <sub>50</sub> for 22-26,5 mg/l/96h, NOEC 9,3 – 9,7 mg/l/96h EC <sub>50</sub> 70,5 mg/l/48h, NOEC 20mg /l/48h
<b>Toxic to daphnia</b>	EC <sub>50</sub> 7>35 mg/l/21d, NOEC 11,1 mg /l/21d
<b>Toxic to algae</b>	Scenedusmus suspicatus EbC <sub>50</sub> 6,65 mg/l/72h, ErC <sub>50</sub> 12,42 mg/l/72h NOEC 3,5 mg/1/72h

### Section 13 – Disposal Considerations

<b>Product Disposal</b>	Dispose packaging according to the label or at an approved landfill or other approved facility.
<b>Packaging Disposal</b>	Triple rinse containers containing the Agrecovery logo on the label and check that the container is free of all residues (liquid or dry) and have an intact legible label may be taken to an Agrecovery collection site. Otherwise crush or puncture and bury in a suitably landfill. Do not burn empty containers. Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources. DO NOT reuse packaging.

### Section 14 – Transport Information

<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID N.O.S (Contains Ethofumesate)
<b>UN Number</b>	3082
<b>DG Class:</b>	9
<b>Subsidiary Risk Class</b>	N/A
<b>Packing Group</b>	III
<b>HAZCHEM Code</b>	3Z
<b>Transport pictogram</b>	
<b>Additional Information</b>	Marine pollutant

### Section 15 – Regulatory Information

<b>EPA NZ Registration Code</b>	HSR000826
<b>ACVM Approval Number</b>	P9184
<b>Approved handler</b>	Required
<b>Tracking requirements</b>	This product should only be sold to an approved handler Records of use must be kept under certain circumstances – see the NZ standards for Management of Agrichemicals (NZS8409) for details.
<b>Record keeping</b>	

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**Section 16 – Other Information**

The information in this SDS is provided in good faith, but no warranty, expressed or implied is made. For more information please contact Donaghys LTD.

<b>DONAGHYS NZ</b>	<b>0800 942 006</b>
<b>DONAGHYS AUSTRALIA</b>	<b>1800 644 404</b>
<b>POLICE, AMBULANCE &amp; FIRE SERVICE</b>	<b>111</b>
<b>NATION POISON INFORMATION CENTRE</b>	<b>0800 POSION (0800 764 766)</b>
<b>HAZARDOUS SUBSTANCES EMERGENCY</b>	<b>0800 CHEMCALL (0800 243 622)</b>

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