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

Product Name	Donaghys Flumetsulam 800.
Company	Donaghys Ltd.
Address	16 Sheffield Crescent PO Box 20 449 Christchurch.
Telephone Number	NZ 0800 942 006 or AUS 1800 644 404.
Recommended Use	A herbicide for post emergent management of broadleaf weeds in clover, lucerne, chicory, new and mature pasture and maize.
Emergency Contact	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: HSR000458.

HSNO Classification 9.1A, 9.2A.

GHS Pictogram	Hazard Classes	
	9.1A	Substances that are very ecotoxic in the aquatic environment.
	9.2A	Substances that are very ecotoxic in the soil environment.

Hazard Statements

9.1A Very toxic to aquatic environment.

9.2A Very toxic to the soil environment.

Prevention Statements (for more information see section 7)

Keep out of reach of children.

Read Label before use.

Do not eat, drink or smoke while using.

Wear protective clothing such as impervious gloves, waterproof hat, coat & trousers when using.

Remove protective clothing and wash hands and face thoroughly before meals and after work.

Spray drift may cause serious damage to other desirable plants.

IN CASE OF EMERGENCY PHONE
National Poisons Centre 0800 POISON (0800 764 766)

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Section 3 – Composition Information

Chemical	CAS No.	Content
Flumetsulam	98967-40-9	80%

Section 4 – First Aid Measures

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

Section 5 – Fire-fighting Measures

Flashpoint	N/A.
Flammability Limits	Not determined.
Protective Equipment	Self-contained breathing apparatus, protective gloves and clothing.
Extinguishing Media	Dry chemical, water spray (fog), foam or carbon dioxide.
HazChem Code	2X.
Thermal decomposition products	Includes oxides of carbon and nitrogen.
Special Fire Fighting Methods	Addition of water may cause excessive foaming. Vapours may be toxic. Self contained breathing apparatus required. Prevent run off entering waterways.

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Section 6 – Accidental Release Measures

Spills and Disposal	<p>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.</p>
Protective Equipment	<p>Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).</p>
Environmental Precautions	<p>Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.</p>

Section 7– Handling and Storage

Storage	<p>Do not mix or store in galvanized or unlined steel. 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.</p>
Handling	<p>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.</p>
Approved Handler	<p>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.</p>
Tracking regulations	<p>N/A.</p>



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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.

Hygiene Precaution

Do not eat, drink or smoke when using this product. Be careful not to contaminate yourself when removing contaminated clothing.

Engineering Controls

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

Form	Granules.
Appearance - colour	White.
Odour	N/A.
pH	4 – 9.
Flash point °C	N/A.
Boiling point	N/A.
Melting point	N/A.
Flammability limits	N/A.
Oxidising properties	N/A.
Explosive properties	N/A.

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Section 10 – Stability and Reactivity

Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Hazardous Decomposition Products	Noxious fumes under fire conditions – hydrogen, chloride and others.
Dangerous Reactions	Avoid Acid, base, oxidizing materials.

Section 11 – Toxicological Information

Acute Toxicity (Active ingredient)

Acute Oral	LD ₅₀ (rats) :	>5000 mg/kg
Acute Dermal	LD ₅₀ (rabbit) :	>2000mg/kg
Acute inhalation	LC ₅₀ (rats) (4hrs) :	> 1.2 mg/kg

Section 12 - Ecological Information

EPA Classification	9.1A, 9.2A
Soil toxicity	Unknown.
Aquatic toxicity	LC ₅₀ (96hr) for silverside minnow is >379 mg/l.
Terrestrial vertebrates - Birds	LD ₅₀ for bobwhite quail is 2,250 mg/kg.
Terrestrial vertebrates - Bees	Unknown.

Section 13 – Disposal Considerations

Product Disposal	Dispose packaging according to the label or at an approved landfill or other approved facility.
Packaging Disposal	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.




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Section 14 – Transport Information

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID N.O.S (Contains Flumetsulam).
UN Number	3077.
DG Class:	9.
Subsidiary Risk Class	N/A.
Packing Group	III.
HAZCHEM Code	2X.
Transport pictogram	
Additional Information	Marine pollutant.

Section 15 – Regulatory Information

EPA NZ Registration Code	HSR000458.
ACVM Approval Number	P8589.
Approved handler	Required.
Tracking requirements	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.
Record keeping	

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.

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

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