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

Product Name	Donaghys Diemos
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	Herbicide for the control of broad-leaved weeds in fodder beat.
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: HSR101192
HSNO Classification 6.3A,6.4A,6.5B,6.9B(oral),9.1A,9.2B

GHS pictogram	Hazard Classes	
	6.3A	Substances that are irritating to the skin
	6.4A	Substances that are irritating to the eye
	6.5B	Substances that are contact sensitisers
	6.9B	Substances that are harmful to human target organs or systems
	9.1A	Substances that are very ecotoxic in the aquatic environment
	9.2B	Substances that are ecotoxic in the soil environment

Hazard Statements

Harmful - may be harmful if swallowed
Harmful – may cause organ damage from repeat oral exposure at high doses
Very toxic to aquatic organisms with long-lasting effects
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

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Prevention Statements (continued)

Wear protective clothing such as impervious gloves, waterproof hat, coat and 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

Do not apply if the air temperature is likely to rise above 29°C avoid treatment if rain is likely

Section 3 – Composition Information

Chemical	CAS No.	Content
Phenmedipham 160 g/l	13684-63-4	14.73% w/w
Desmedipham 160 g/l	13684-56-5	14.73% w/w
Inert Ingredients	Trade Secret	To 100% w/w

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
Combustion Products	May give off toxic carbon monoxide, cyanides, and hydrogen chloride in a fire
Flammability Limits	N/A
Protective Equipment	Self-contained breathing apparatus, protective gloves and clothing
Extinguishing Media	Foam, carbon dioxide, dry chemicals
HazChem Code	3Z
Special Fire Fighting Methods:	Prevent run off entering waterways

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Section 6 – Accidental Release Measures

Small Spill (non-emergency personal)

Spills and Disposal	When dealing with spills wear personal protective clothing and equipment as described in the Personal protection section. Contain the spill by damming, recover product by absorbing with sawdust or an inert absorbent material then transfer the recovered spilt material to a properly labelled drum. Deal with any spillages immediately. Avoid contamination of drains, streams, watercourses etc. If unavoidable warn the local water authority.
Protective Equipment	Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).
Environmental Precautions	Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.
Large Spill (emergency personal)	
Spills and Disposal	Absorb spill with an inert material and place in suitable labeled container.
Protective Equipment	Wear protective nitrile rubber gloves, face/eye protection and appropriate half-mask respirator (see section 8).
Environmental Precautions	Avoid entry into waterways or streams. Prevent washings from entering waterways by damming or covering drain entrances, if safe to do so.
Prevention	<p>Level 1 emergency management plans need to be in place for quantities between 0.1 and 1000 kg</p> <p>Level 2 emergency management plans need to be in place for all workplaces</p> <p>Level 3 emergency management plans need to be in place for quantities above 1000 kg</p>

Section 7– Handling and Storage

Storage	<p>Store in original container tightly closed and in a locked, dry, well ventilated area away from foodstuffs.</p> <p>When stored according to recommendations this product should not show signs of degradation for at least two years from the date of manufacture.</p> <p>Keep out of reach of children.</p> <p>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.</p> <p>Wear eye / face protection.</p> <p>In case of inadequate ventilation wear respiratory protection.</p> <p>Contaminated work clothing should not be allowed out of the workplace.</p> <p>Avoid unintended release to the environment.</p>

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Section 7– Handling and Storage (continued)

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	Do not apply
Record Keeping	Do not apply

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. To protect your skin and eyes, wear protective overalls, chemical resistant safety glasses and nitrile rubber gloves when handling. Wear eye / face protection. In case of inadequate ventilation, wear half mask filter respiration unit suitable for dust.

Gloves

Protective Equipment

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

Appearance - colour	White to light Brown liquid
Odour	Not available
pH	3.8 – 5.55
Vapour Pressure	Not available
Vapour Density	Not available
Boiling Point/Melting point	>100°
Freezing	Not available
Flash Point	N/A



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Section 9 – Physical and Chemical Properties (continued)

Solubility	Soluble/dispersible in water
Specific Gravity	1.04 -1.10
Dissociation Constant (pK_a)	Not available

Section 10 – Stability and Reactivity

Stability	Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid	Avoid sources of ignition and extremes of temperature, avoid direct sunlight, avoid generation of dust
Materials to Avoid	Incompatible with strong acids and bases, oxidizing agents
Hazardous Decomposition Products	May give off toxic carbon monoxide, cyanides, and hydrogen chloride in a fire

Section 11 – Toxicological Information

Acute Oral	LD ₅₀ Rat > 2000 mg/kg
Acute Inhalation	LC ₅₀ Rat > 3.14mg/l (4hrs)
Acute dermal toxicity	LD ₅₀ >5000 mg/kg
Dermal	Slight irritation
Ocular	Mild irritation
Carcinogenicity	Not suspected as a human carcinogen
Reproductive toxicity	No conclusive evidence
Genotoxicity	Not genotoxic.
Neurotoxicity	No sub chronic neurotoxicity. No neurodevelopmental toxicity.

Section 12 - Ecological Information

EPA Classification	6.3A, 6.4A, 6.5B, 6.9B (Oral), 9.1A, 9.2B
Aquatic toxicity	Very toxic to the aquatic environment
Vertebrate toxicity	Substances that are harmful to terrestrial vertebrates
Invertebrate toxicity	Substances that are harmful to terrestrial invertebrates
Bioaccumulation	Strong evidence to show that Diemos can be bio accumulated in aquatic, vertebrate and invertebrate species.
Atmospheric toxicity	No risk of atmospheric toxicity

Section 13 – Disposal Considerations

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Product Disposal

When empty, triple rinse container and add residues to spray tank. Dispose of empty container at an approved landfill or other approved facility. Avoid contamination of any water supply with product or empty container. Do not re-use container

Section 14 – Transport Information

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Contains Phenmedipham 160 g/l, Desmedipham 160 g/l)
UN Number	3082
DG Class:	9
Subsidiary Risk Class	N/A
Packing Group	III
HAZCHEM Code	3Z
Transport pictograms	

Section 15 – Regulatory Information

EPA NZ Registration Code	HSR101192
ACVM Approval Number	P9273
Approved handler	Required
Tracking requirements	Not required

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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