

Infosafe No™ 3NUHS	Issue Date : October 2013	ISSUED by NUFARMNZ
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Product Name **DIMILIN® 2L**

1. Identification

GHS Product Identifier	DIMILIN® 2L
Product Code	03502
Product Type	Insecticide
Company Name	Nufarm NZ
Address	6 Manu Street, Otahuhu Auckland 2024 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150 Fax: 0-9-270 4159
Emergency phone number	0800 651 911
Email	info@nz.nufarm.com
Recommended use of the chemical and restrictions on use	An insect growth regulator which disrupts chitin deposition and prevents moulting of porina caterpillar, clover flea of pasture and sciarid fly of mushrooms.
Other Information	This SDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

2. Hazard Identification

Other Information	6.4A eye irritant, 6.9B target organ toxicant, 9.1A aquatic toxicant, TOXICITY Harmful - may cause eye irritation. May cause damage to the blood system from repeated oral exposure at high doses. ECOTOXIC Very toxic to aquatic organisms.
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3. Composition/information on ingredients

Chemical	Liquid		
Characterization			
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Diflubenzuron	35367-38-5	240 g/L
	Petroleum distillates (Paraffinic)	-	8-10 % w/w
	Ingredients determined to be non-hazardous	-	Balance

4. First-aid measures

First Aid Measures	For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Begin artificial respiration if the victim is not breathing. Use mouth-to-nose rather than mouth-to-mouth. Obtain medical attention.
Inhalation	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Ingestion	Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre (0800 764 766). Seek medical assistance immediately.
Skin	Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. If a large area is affected seek medical assistance.
Eye contact	Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance. Remove contact lenses, if present and easy to do.
First Aid Facilities	Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.
Advice to Doctor	Treat symptomatically.

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5. Fire-fighting measures

Suitable extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Unsuitable Extinguishing Media	Do not use water in a jet.
Hazards from Combustion Products	Burning produces noxious and toxic fumes.
Special Protective Equipment for fire fighters	Full protective clothing and self-contained breathing apparatus.
Specific Methods	Keep up wind. Do not allow washings to reach sewage or effluent systems. Keep containers cool with water spray.
Hazchem Code	2X
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

6. Accidental release measures

Spills & Disposal	Wear protective clothing. Clear area of unprotected personnel. Contain spill and absorb with sand, soil or absorbent granules. If spill does enter waterways contact the local authority. Collect in an appropriate sealable container for disposal in an approved landfill.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. Handling and storage

Precautions for Safe Handling	Avoid skin and eye contact and inhalation of spray mist. APPROVED HANDLER: Not applicable TRACKING: Is not required RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more is applied within 24 hours.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs. Storage must be in accordance with NZS 8409 Management of Agrichemicals. Stores containing 100L of DIMILIN 2L require secondary containment and are subject to signage, and more than 100L require emergency response plans.
Other Information	Always read the label and any attached leaflet before use. Aggregate Storage Volume Thresholds: When stored with substances of the same hazard classification the aggregate quantity must be considered. For full details refer to the current NZS8409 Management of Agrichemicals and the HSNO Regulations.

8. Exposure controls/personal protection

Occupational exposure limit values	No exposure limits (WES, TEL or EEL's) have been specifically assigned for this product. The following ADE, PDEs and TELs are set for diflubenzuron ADE = 0.02 mg/kg PDE food = 0.01 mg/kg bw/day PDE drinking water = 0.004 mg/kg bw/day PDE inhalation = 0.002 mg/kg bw/day PDE dermal = 0.002 mg/kg bw/day TEL air = 0.003 mg/m3 The following EEL are set for diflubenzuron: EEL Marine Water = 0.0002 mg/L water EEL Fresh Water = 0.00037mg/L water
Appropriate engineering controls	Handle in well ventilated areas, generally natural ventilation is adequate. In case of insufficient ventilation, wear suitable respiratory equipment.

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Personal Protective Equipment	When opening the container, preparing spray and using the prepared spray wear safety goggles, waterproof gloves, cotton overalls buttoned to the neck and wrist, and boots.
Hygiene Measures	Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing daily after work.

9. Physical and chemical properties

Form	Liquid
Appearance	Off-white to beige liquid
Odour	Slight odour
Solubility in Water	Disperses in water.
Specific Gravity	1.10
pH	5.0 - 8.0
Flash Point	108°C
Other Information	(SC) Suspension Concentrate

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of handling and storage.
Incompatible Materials	Strong acids and alkalis. Oxidising agents
Hazardous Decomposition Products	Oxides of carbon, nitrogen and sulphur. Hydrogen halides.
Hazardous Polymerization	Hazardous polymerisation will not occur.

11. Toxicological Information

Toxicology Information	Primary route of entry: skin absorption, eye contact, inhalation
Acute Toxicity - Oral	LD50 (rat) 4,640 mg/kg for diflubenzuron
Acute Toxicity - Dermal	LD50 (rat) >10,000mg/kg for diflubenzuron
Acute Toxicity - Inhalation	LC50 (rat) (4h) >2.49 mg/L for diflubenzuron
Ingestion	May cause gastrointestinal irritation, nausea, vomity and diarrhoea.
Skin Sensitisation	Not a skin sensitizer based on Buehler sensitisation test.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of teratogenicity or reproductive toxicity.
Chronic Effects	The adsorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.
Serious eye damage/irritation	Irritant
Mutagenicity	No evidence of mutagenicity.
Skin corrosion/irritation	May cause irritation.
Subchronic/Chronic Toxicity	Target Organ toxicant. Blood and the hematopoietic system. LOAEL 6.24mg/kg bw/day for diflubenzuron
Other Information	The Australian Acceptable Daily Intake (ADI) for diflubenzuron for a human is 0.02 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, Office of Chemical Safety, 'ADI List', March 2013).

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12. Ecological information

Persistence and degradability	Di flubenzuron is not rapidly degradable
Bioaccumulative Potential	Di flubenzuron is not bioaccumulative. BCF = >100 for di flubenzuron
Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. Data below is for the active ingredient unless otherwise stated.
Acute Toxicity - Fish	LC50 (96hr) for rainbow trout is >0.2 mg/l for di flubenzuron LC50 (96hr) for cutthroat trout is 57mg/kg for di flubenzuron
Acute Toxicity - Daphnia	EC50 (48h) Daphnia magna = 3.7µg/L for di flubenzuron
Acute Toxicity - Algae	LC50 for Selenastrum capricornutum >0.3 mg/l for di flubenzuron
Acute Toxicity - Other Organisms	LD50 (oral and contact) Bees = 100µg/bee for di flubenzuron Dietary LC50 (8d) bobwhite quail and mallard ducks >4,640mg/kg diet for di flubenzuron NOEC for worms (Eisenia foetida) 780mg/kg substrate for di flubenzuron
Other Information	Environmental Exposure Limits: EEL (marine water) = 0.0002mg/L water for di flubenzuron EEL (fresh water) = 0.00037mg/L water for di flubenzuron

13. Disposal considerations

Product Disposal	Dispose of product only by using according to the label, or at an approved landfill.
Container Disposal	Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.

14. Transport information

Transport Information	It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.
U.N. Number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (di flubenzuron, 24%)
Transport hazard class(es)	9
Hazchem Code	2X
Packaging Method	-
Packing Group	III
EPG Number	-
IERG Number	47
IMO Marine Pollutant	Yes. Environmentally Hazardous Substance mark required.
Other Information	Do not carry more than 1L of Dimilin 2L on a passenger service vehicle.

15. Regulatory information

National and or International Regulatory Information	Registered pursuant to the ACVM Act 1997, No. P7723 See www.foodsafety.govt.nz for registration conditions Approved pursuant to the HSNO Act 1996, Approval Code HSR000953 See www.epa.govt.nz for approval controls.
Packaging & Labelling	ECOTOXIC
Hazard Rating Systems	NFPA/HMIS: 2-2-1
Hazard Category	ECOTOXIC

16. Other Information



Safety Data Sheet

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**Date of preparation
or last revision of
SDS** October 2007

Contact Person/Point IN AN EMERGENCY, DIAL 111 - FIRE OR POLICE
24Hr Tollfree Emergency No: 0800 651 911
24Hr Emergency No: National Poisons Centre Phone: 0800 764 766
Revisions 5 yearly review carried out. Various changes and updates made to document.

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