

Infosafe No™ 3NUHS	Issue Date : October 2024	ISSUED by NUFARMNZ
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 Product Name **DIMILIN® 2L**

Section 1 - Identification

Product Identifier	DIMILIN® 2L
Product Code	03502
Product Type	Insecticide
Company Name	Nufarm NZ
Address	Central Park, Building 3, Level 4, 666 Great South Road Ellerslie Auckland 1051 New Zealand
Telephone/Fax Number	Tel: 0-9-270 4150
Emergency Phone Number	0800 651 911
Email	nzinfo@nufarm.com
Recommended uses and any restrictions on use or supply	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.

Section 2 - Hazard(s) Identification

GHS classification of the substance/mixture	Eye irritation Category 2 Specific target organ toxicity - repeated exposure: Category 2 Hazardous to the aquatic environment acute Category 1 Hazardous to the aquatic environment chronic Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H319 Causes serious eye irritation H373 May cause damage to organs through prolonged or repeated exposure H410 Very toxic to aquatic life with long lasting effects
Precautionary Statement – General	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read carefully and follow all instructions.
Pictogram (s)	Health hazard, Environment



Precautionary Statement – Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands and face thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
Precautionary Statement – Response	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P314 Get medical advice/attention if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P391 Collect spillage.
Precautionary Statement – Disposal	P501 Dispose of contents/container to an approved landfill.

Section 3 - Composition and Information on Ingredients

Chemical Characterization	Liquid
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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

Section 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	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.

Section 5 - Firefighting 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
Decomposition Temperature	Information is not available.
Other Information	Location Certificate: Not applicable Hazardous Atmosphere Zone: Not applicable Number of Fire Extinguishers: Not applicable

Section 6 - Accidental Release Measures

Spills and 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.

Section 7 - Handling and Storage

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Precautions for Safe Handling	<p>The person mixing or applying Dimilin 2L must be a 'Qualified Contractor' or a 'Qualified Person'. The spray mixture may also be prepared by a 'Qualified Loader'. It is the duty of the PCBU that a person who uses, handles, manufactures or stores a hazardous substance (including hazardous waste) is provided information, instruction and training in accordance with Regulation 4.5 of the Health and Safety at work (Hazardous Substances) Regulations 2017. Avoid skin and eye contact and inhalation of spray mist. This product must not be applied onto or into water. CERTIFIED HANDLER: Is not required. TRACKING: Is not required. RECORD KEEPING: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3L or more of Dimilin 2L is applied within 24 hours. Records must be kept for a minimum of 3 years from application date. Keep out of reach of children.</p>
Conditions for safe storage, including any incompatibilities	<p>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.</p>
Other Information	<p>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.</p>

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits (OEL)	<p>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</p> <table style="width: 100%;"> <tr><td>ADE</td><td>= 0.02 mg/kg</td></tr> <tr><td>PDE food</td><td>= 0.01 mg/kg bw/day</td></tr> <tr><td>PDE drinking water</td><td>= 0.004 mg/kg bw/day</td></tr> <tr><td>PDE inhalation</td><td>= 0.002 mg/kg bw/day</td></tr> <tr><td>PDE dermal</td><td>= 0.002 mg/kg bw/day</td></tr> <tr><td>TEL air</td><td>= 0.003 mg/m³</td></tr> </table> <p>The following EEL are set for diflubenzuron:</p> <table style="width: 100%;"> <tr><td>EEL Marine Water</td><td>= 0.0002 mg/L water</td></tr> <tr><td>EEL Fresh Water</td><td>= 0.00037mg/L water</td></tr> </table>	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/m ³	EEL Marine Water	= 0.0002 mg/L water	EEL Fresh Water	= 0.00037mg/L water
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Appropriate Engineering Controls	<p>Handle in well ventilated areas, generally natural ventilation is adequate. In case of insufficient ventilation, wear suitable respiratory equipment.</p>																
Personal Protective Equipment	<p>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.</p>																
Hygiene Measures	<p>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.</p>																

Section 9 - Physical and Chemical Properties

Form	Liquid
Appearance	Off-white to beige liquid.
Odour	Slight odour.
Decomposition Temperature	Information is not available.
Melting Point	223.5-224.5°C for active ingredient diflubenzuron.
Boiling Point	257°C/40.0kPa (tech.) for active ingredient diflubenzuron.
Solubility in Water	Disperses in water.
Specific Gravity	1.10

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Product Name **DIMILIN® 2L**

pH	5.0 - 8.0
Vapour Pressure	1.2 x 10 ⁻⁴ mPa (25°C) for active ingredient diflubenzuron.
Vapour Density (Air=1)	Information is not available.
Odour Threshold	Information is not available.
Partition Coefficient: n-octanol/water	Kow logP = 3.8 (pH4) for active ingredient diflubenzuron.
Flash Point	108°C
Flammability	Information is not available.
Auto-ignition Temperature	Information is not available.
Flammable Limits - Lower	Information is not available.
Flammable Limits - Upper	Information is not available.
Kinematic Viscosity	Information is not available.
Particle Characteristics	Information is not available.
Other Information	(SC) Suspension Concentrate

Section 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.

Section 11 - Toxicological Information

Acute Toxicity - Oral	LD50 (rat and mice) 4640 mg/kg for active ingredient diflubenzuron.
Acute Toxicity - Inhalation	LC50 (rat) >2.88mg/L for active ingredient diflubenzuron.
Acute Toxicity - Dermal	LD50 (rat) >10000mg/kg for active ingredient diflubenzuron.
Skin Corrosion/Irritation	Not classified as a skin irritant for active ingredient diflubenzuron.
Serious Eye Damage/Irritation	Causes serious eye irritation.
Skin Sensitisation	Not a skin sensitizer based on Buehler sensitisation test.
Germ Cell Mutagenicity	No evidence of mutagenicity.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive Toxicity	No evidence of teratogenicity or reproductive toxicity.
STOT - Single Exposure	Information is not available.
STOT - Repeated Exposure	May cause damage to the blood system from prolonged or repeated oral exposure at high doses.
Aspiration Hazard	Information is not available.

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Chronic Effects The adsorption of this product into the body may lead to the formation of methaemoglobine that, in sufficient concentration, causes cyanosis.

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: Aust Govt Dept. of APVMA, 'ADI List', Edition 1/2024).

Section 12 - Ecological Information

Persistence and Degradability Diflubenzuron rapidly degraded in soil under aerobic conditions, DT50 (20°C, pF2) 2-6.8days.

Mobility Diflubenzuron is immobile to slightly mobile in soil.

Bioaccumulative Potential Diflubenzuron is not bioaccumulative.
BCF = >100 for active ingredient diflubenzuron.

Acute Toxicity - Fish LC50(96hr) for rainbow trout is 106.4mg/L for active ingredient diflubenzuron.

Acute Toxicity - Daphnia EC50(48h) 0.0026mg/L for active ingredient diflubenzuron.

Acute Toxicity - Algae NOEC for Selenastrum capricornutum 100mg/L for active ingredient diflubenzuron.

Acute Toxicity - Other Organisms Birds: LD50 (14d) bobwhite quail and mallard ducks >5000mg/kg for active ingredient diflubenzuron.
Bees: Not hazardous to bees and predatory insects; LD50 (oral and contact) >100µg/bee for active ingredient diflubenzuron.
Worms: NOEC for Eisenia foetida >=780mg/kg substrate for active ingredient diflubenzuron.

Section 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.

Section 14 - Transport Information

Transport Information It is good practice not to transport agricultural chemical products with food, food related materials and animal feedstuffs.

UN Number 3082

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (diflubenzuron)

Hazard Class 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.

Section 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.

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Product Name **DIMILIN® 2L**

Packaging and Labelling	READ SAFETY DIRECTIONS BEFORE OPENING OR USING KEEP OUT OF REACH OF CHILDREN
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Section 16 - Any Other Relevant Information

Date of preparation or last revision of SDS December 2023.

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 Highlighted Various changes and updates made to the document to comply with GHS7.

...End Of MSDS...

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