

SAFETY DATA SHEET

Product Name: **Lawn Insect Control**

Print/View Date: 19/07/2022

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1. PRODUCT AND COMPANY INFORMATION

Chemical/Product Name:	Lawn Insect Control
Recommended uses:	Insecticide
Restrictions on Use/Supply	Do not apply into or onto water.
Molecular Formula:	A mixture containing pyrethroid derivative
Supplier:	Burnet's Horticulture Limited
Street Address:	28 Andromeda Crescent, East Tamaki, Manukau, New Zealand
Postal Address:	PO BOX 58-510 Botany, Auckland 2163
Telephone	0800 775 710
Email:	enquiries@burnets.co.nz
Website:	http://www.burnets.co.nz/
Emergency Contact Numbers:	0800 764 766 (0800 POISON)
National Poisons Centre:	0800 764 766 (0800 POISON)

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2. HAZARDS IDENTIFICATION

GHS Hazard Classification	Transport of Dangerous Goods Pictogram	GHS Pictogram	Signal word	Hazard statement code	Precautionary statement codes			
					Prevention	Response	Storage	Disposal
Aquatic Acute 1			Warning	H400	P103 ^b P273	P391	No storage statements	P501
Aquatic Chronic 1			Warning	H410	P103 ^b P273	P391	No storage statements	P501

Signal word:

WARNING

Dangerous Goods:

Dangerous Goods (Class 9)

Packaging Group:

III

Hazardous Substance (GHS) Codes:

Aquatic Acute Cat. 1

Aquatic Chronic Cat. 1

Pictograms:



Hazard Statement:

H400: Very toxic to aquatic life.

H411: Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P273: Avoid release to environment.

P391: Collect spillage.

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P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Beige free flowing granules (sand)

Ingredients

Ingredients	CAS #	Content %
Bifenthrin	82657-04-3	0.2%
Non specified non-hazardous ingredients	NA (Mixture)	to 100 %

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, seek medical advice (show the label where possible).

Ingestion: Drink one or two glasses of milk or water. Seek medical advice or call NZ Poisons Centre on 0800 764 766 if feeling unwell. If medical advice is needed have product label at hand.

Eye Contact: Unlikely to cause eye irritation. Rinse opened eye for several minutes under running water. If irritation develops seek medical advice. If medical advice is needed have product label at hand.

Skin Contact: Unlikely to cause skin irritation. Rinse skin with copious amounts of water and wash with soap and water. If skin irritation develops seek medical advice.

Inhalation: Unlikely to present an inhalation hazard. If breathing problems develop, seek medical advice. If medical advice is needed have product label at hand.

Advice for Medical Doctors: Treat symptomatically.

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5. FIRE FIGHTING MEASURES

HAZCHEM code:	3Z
Specific Hazards:	None. Minimise the use of water to prevent environmental contamination.
Suitable Extinguishing Media:	Appropriate fire extinguishers are Water, CO ₂ , Powder, or Alcohol resistant foam. Use extinguishing media appropriate to the surrounding conditions.
Fire Fighting Advice:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
Hazardous Products of Combustion:	Toxic gases of carbon and fluorine may be produced

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:	Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. For personal protection see section 8.
Environmental precautions:	Prevent leakage or spillage if safe to do so. Do not allow product to enter waterways, drains or stormwater.
Minor Spills (Up to 20 kg):	Environmentally hazardous substance. Contain spill and collect.
Major Spills (more than 20 kg):	Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Collect in an appropriate sealable container for disposal.

7. HANDLING AND STORAGE

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Precautions for safe handling:	Avoid prolonged or repeated contact with skin and eye. Avoid inhaling dust. When handling product in drums, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking, or smoking. Clean equipment after use.
Conditions for safe Storage including incompatibilities:	Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children, and animals. Do not allow product to get wet in storage. Minimum shelf life: 2 years.
Protection against fire and explosion:	Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards:	See 'Exposure limits' below (Workplace Exposure Standards and Biological Exposure Indices Edition 13, 2022)
Engineering Controls:	No special requirements when used as recommended.
Hand protection:	If repeated or prolonged contact wear chemical resistant gloves.
Eye protection:	If there is significant potential for contact, wear dust goggles.
Body protection:	Skin protection not ordinarily required beyond standard issue work clothes.
Respiratory Protection:	Use a respirator or disposable masks to avoid inhalation of dust.
General safety and hygiene measures:	Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes, and clothing.
Environmental Exposure Controls:	Minimise release to the environment.

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Exposure Standards:

Substance	Cas #	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Silica-Amorphous, Diatomaceous earth ^a	[61790-53-2]		10		

^a As a respirable dust only

Additional NZ EPA controls:

Code	Section of HSNO Act	Control
Environmental Exposure Limits	77A	An Environmental Exposure Limit (water) has been set for bifenthrin. The EEL value is 0.05ng/L.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Beige free glowing granules (Sand)
Odour:	Very faint sweet odour
Odour Threshold:	No data
pH Value:	Not applicable
Melting/freezing point:	69°C (Bifenthrin)
Boiling point (range):	No data
Flash Point:	Not applicable
Flammability:	Not flammable
Explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	0.96g/cm ³

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Solubility:	Insoluble in water
Partition coefficient:	No data
Auto-ignition temperature:	No data
Decomposition temperature:	No data
Viscosity:	No data

10. STABILITY AND REACTIVITY

Stability & Chemical reactivity:	Stable under normal conditions of use. Not explosive or oxidising.
Chemical/material Incompatibilities	Avoid strong oxidising agents.
Conditions to be avoid:	Avoid excessive heating
Thermal Decomposition:	Hazardous products of combustion; see section 5 for details.

11. TOXICOLOGICAL INFORMATION

Hazard Classes	Not toxic to mammals.
Acute Toxicity:	Bifenthrin: LD ₅₀ (rat) oral – 54.50 mg/kg.
Aspiration hazard	Unlikely to cause an inhalation hazard. Avoid breathing dust.
Skin corrosion/irritation:	Not a skin corrosive.
Serious eye damage/irritation:	Not an eye irritant.
Respiratory or skin sensitisation:	Unlikely to cause respiratory or skin sensitisation.
Germ cell mutagenicity:	No data available
Carcinogenicity:	Bifenthrin is considered a Group C possible human carcinogen.

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Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.
Specific organ toxicity – single exposure:	Not applicable
Specific organ toxicity – repeated exposure:	Not applicable
Narcotic effects:	No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

Ecological information of substance:	Toxic to aquatic life with short-term and long-term effects. Do not contaminate waterways, sewers, or drains when using product or packaging. Bifenthrin Oncorhynchus mykiss, 96h LC ₅₀ = 0.00015 mg/L Water Flea, EC ₅₀ (48 hr) = 0.00007 mg/L Fire Ant female, LC ₅₀ = 1.1ppm soil
Bioaccumulation potential:	Bifenthrin has the potential to bioaccumulate.
Soil Toxicity and degradability:	Hazardous to soil organisms. Bifenthrin - Soil DT ₅₀ (field) 86.8 d
Mobility in soil	Low leaching potential.

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation:	Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.
Container Disposal:	Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations. DO NOT reuse containers. DO NOT burn.

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Methods of disposal to avoid

Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number:	3077
UN Dangerous Goods Class:	Class 9
Hazchem Code:	3Z
UN Packaging Group:	III
UN Proper Shipping Name:	Environmentally hazardous substance, solid N.O.S.
Segregation:	Food and feed

15. N.Z. REGULATORY INFORMATION

HSNO approval Number:	HSR000047
GHS Classifications:	Aquatic Acute 1; Aquatic Chronic 1
HSNO Controls:	Refer to HSR000047
Other Controls	Stores containing more than 100 kg require secondary containment, signage, and an emergency response plan.

16. OTHER INFORMATION

SDS date of preparation: 14 / 07 / 2022

SDS date of revision: 14 / 07 / 2027

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Burnet's Horticulture Ltd. web site, www.burnets.co.nz, or contact the supplier of the starting materials.

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The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Burnet's Horticulture Ltd to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Burnet's Horticulture Ltd and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

ADR:	European agreement concerning the international carriage of Dangerous goods by Road
CLP:	Classification Labelling and Packaging
EC:	European Commission
EU:	European Union
GHS:	Global Harmonized System
H Phrase:	Hazard Phrase
HSNO:	Hazardous Substances and New Organisms (1996) Act
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organisation
IMDG:	International Maritime Dangerous Goods
P Phrase:	Precautionary Phrase
RID:	Regulations concerning the International carriage of Dangerous good by rail
STEL:	Short-Term Exposure Limit
TLV:	Threshold Limit Value
TWA:	Time Weighted Average