SAFETY DATA SHEET

Garrards Pty Ltd	Date Issued: 17 June 2026
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1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: BIFENTHRIN 100 SC

COMPANY IDENTIFICATION:
Garrards Pty Ltd
PO Box 5477
Brendale, Queensland 4500

USE: Insecticide

SUBSTANCE: Bifenthrin is a pyrethroid derivative.

2. HAZARDOUS IDENTIFICATIONS:

STATEMENT OF HAZARDOUS SUBSTANCE:
Hazardous according to criteria of Safe Work Australia.

GHS Classification of the substance/mixture

- Acute toxicity – category 4
- Respiratory hazard – category 3
- Hazardous to the aquatic environment (acute) – category 1
- Hazardous to the aquatic environment (chronic) – category 1

Signal Word(s): DANGER

Hazard Statement(s)

- H302 Harmful if swallowed
- H332 Harmful if inhaled
- H335 May cause respiratory irritation
- H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s) – General

- P101 If medical advice is needed, have product container, label or SDS at hand
- P102 Keep out of reach of children
- P103 Read label before use

Pictogram(s)
Health Hazard, Environment



Precautionary Statement(s) – Prevention

- P202 Do not handle until all safety precautions have been read and understood
- P260 Do not breathe mists or spray
- P271 Use only outdoors or in a well ventilated area
- P280 Wear protective gloves, clothing, eye and face protection
- P284 Wear respiratory protection

Precautionary Statement(s) – Response

- P302+P352 If on skin: wash with plenty of soap and water.
- P304+P340+P310 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call Poisons Information Centre (**13 11 26**) or a doctor.
- P305+P351+P338+P310 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Immediately call Poisons Information Centre (**13 11 26**) or a doctor.
- P308+P313 If exposed or concerned: get medical advice/attention.
- P333+P313 If skin irritation or rash occurs: get medical advice/attention.
- P363 Wash contaminated clothing before reuse.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	CAS Reg. No.	Conc.
Bifenthrin	82657-04-3	100g/L
Water and other ingredients determined non-hazardous.		VHIGH

Proportion (% weight per weight): VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

4. FIRST AID:

If poisoning occurs, immediately contact a doctor or **Poisons Information Centre (telephone 13 11 26**), and follow the advice given. Show this Safety Data Sheet to a doctor.

NOTE TO PHYSICIAN / FIRST AIDERS: Treat Symptomatically. Note that this product contains an aromatic hydrocarbon. Induction of vomiting may lead

to inhalation of its vapors, which in turn may lead to lung damage. Therefore induction of vomiting is preferably performed under trained medical supervision. The active ingredient in this product (Bifenthrin) is a pyrethroid insecticide. Treat symptomatically.

5. FIRE FIGHTING MEASURES:

FLASH POINT: None, based on water

FLAMMABLE LIMITS: Not Flammable
EXTINGUISHING MEDIA: Water fog (or unavailable fine water spray), foam dry agent (carbon dioxide, dry chemical powder).

FIRE AND EXPLOSION HAZARDS: May emit toxic fumes after evaporated to dryness if involved in a fire.

FIRE-FIGHTING EQUIPMENT: Fire fighters to wear breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

ACTION TO TAKE FOR SPILLS:
In case of spills it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

1. Keep all bystanders away.
2. Wear full-length clothing and PVC gloves.
3. Reposition any leaking containers so as to minimise further leakage.
4. Dam and absorb spill with an absorbent material (e.g. sand or soil).
5. Shovel the absorbed spill into drums and top with hydrated lime.
6. Disposal of the absorbent material will depend on the extent of the spill.
    - For quantities up to 50L of product bury in a secure land fill site.
    - For quantities greater than 50L seek advice from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
7. Decontaminate spill area with hydrated lime scattered over the spill prior to rinsing off with water.

7. HANDLING AND STORAGE:

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Store in a cool dry place away from direct sunlight. Store away from food and food stuffs for animal or human consumption. Store in its original container well sealed.

8. EXPOSURE CONTROL / PERSONAL PROTECTION:

EXPOSURE GUIDELINES: Exposure values at the TWA (Time Weighted Average) means the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. A time weight average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Safe Work Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m^3 for inspirable dusts or mists when limits have not otherwise been established.

ENGINEERING CONTROLS: In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS: Avoid skin and eye contact and inhalation of vapour. Wear overalls, eye protection and impervious gloves. Use adequate ventilation. Eye washing and shower facilities available.

EYE / FACE PROTECTION: Face and eye protection should be worn. For help in selecting suitable equipment consult AS 1336 and AS/NZS 1337.

SKIN PROTECTION: Wear chemical resistant PVC or nitrile gloves. Wear cotton overalls and washable cotton hat. Wear boots. For help in selecting suitable gloves consult AS 2161 For help in selecting suitable clothing consult AS 2919. For help in selecting boots consult AS/NZS 2210

RESPIRATORY PROTECTION: Use in well-ventilated area. For help in selecting suitable equipment consult AS/NZS 1715.

APPLICATIONS AND ALL OTHER HANDLERS:
After handling this product always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE: Viscous white suspension
SOLUBILITY IN WATER: Product emulsifies in water
SPECIFIC GRAVITY: 1.03
BOILING POINT: 100^{o}C

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions. React with oxidising agents.

INCOMPATIBILITY: Avoid strong oxidising agents.

HAZARDOUS DECOMPOSITION PRODUCTS: This product is unlikely to spontaneously decompose.

HAZARDOUS POLYMERIZATION: This product is unlikely to spontaneously polymerise.

11. TOXICOLOGICAL INFORMATION:

Oral (Rats) LD_{50}: 531mg/kg
Dermal (Rabbits) LD_{50}: >2000mg/kg
Inhalation LC_{50}: 4.9mg/L/4hr

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL DATA: Do not contaminate streams, rivers or waterways with this product or the used containers.

ECOTOXICOLOGY: Active Ingredient – Bifenthrin
AQUATIC TOXICITY:
The active ingredient is very toxic to aquatic organisms.
96 hr LC_{50} (Rainbow trout): 0.00015mg/L
96 hr LC_{50} (Bluegill sunfish): 0.00035mg/L
96hr LC_{50} (Daphnia magna): 0.0016mg/L

TERRESTRIAL TOXICITY:
Bifenthrin is moderately toxic to many species of birds.
8 Day Oral LC50 (Mallard ducks): 1,280ppm
8 Day Oral LC50 (Bobwhite Quail): 4,450ppm
Acute Oral LD50 (Mallard ducks): 2,150mg/kg
Acute Oral LD50 (Bobwhite Quail): 1,800mg/kg
There is a concern about possible bio accumulation of the active ingredient (Bifenthrin) in birds.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHOD: Dispose of empty, used containers by;
(a) Triple rinsing with water. Add the rinsings to the tank mix or dispose of rinsate in a disposal pit away from desirable plants and roots, and watercourses. On-site disposal of undiluted product is unacceptable.
(b) Breaking, crushing or puncturing the containers to prevent reuse.
(c) Disposing of in a local authority, bury landfill site that does not burn its refuse. If there is no local authority landfill readily available in your area, bury the containers under at least 50cm of soil at a licensed/approved disposal site. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION:

ROAD AND RAIL TRANSPORT: Exempt by the criteria AU01 of Australian Dangerous Goods Code 7 (ADG) for the transport by Road and Rail.

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea and the International Air Transport Association (IATA) Dangerous Goods Regulation for transport by air.

UN-No: 3082
SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S (CONTAINS BIFENTHRIN)
Class: 9 Miscellaneous Dangerous Goods
Packing group: III
Marine Pollutant
Hazchem code: 2Z

15. REGULATORY INFORMATION:

POISON SCHEDULE: S6
Signal word: POISON

This product is registered with the Australian Pesticides and Veterinary Medicines Authority.
APVMA number 67299

16. OTHER INFORMATION:

All information in this data sheet is provided in good faith and is believed to be correct. Each user should consider the information in this safety data sheet within the context of their particular application as Garrards Pty Ltd cannot anticipate or control conditions under which this product may be used. Garrards Pty Ltd will not be responsible for any damages arising out of the use or reliance upon the information in this safety data sheet. No expressed or implied warranties are given other than those implied mandatory by Commonwealth, State or Territory legislation.

Please read all labels carefully before use.

In case of emergency contact Emergency Services
Phone: 000

Poisons Information Centre
Australia 13 11 26
New Zealand 03 474 7000