

# SAFETY DATA SHEET



Garrards Pty Ltd

Date Issued: 02 March 2020

PO Box 5477

Brendale, Qld, 4500

Ph: (07) 3881 1693

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[www.garrards.com.au](http://www.garrards.com.au)

## 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Permethrin 500 EC

### COMPANY IDENTIFICATION:

Garrards Pty Ltd  
PO Box 5477  
Brendale, Queensland 4500

**USE:** Insecticide

## 2. HAZARDOUS IDENTIFICATIONS:

**Hazardous according to criteria of Safe Work Australia.**

### GHS Classification of the substance/mixture

- Acute toxicity – category 4
- Aspiration hazard – category 1
- 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
- H304 May be fatal if swallowed and enters airways
- 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.
Permethrin	52645-53-1	500g/L
Aromatic Hydrocarbon	64742-94-5	HIGH
Other ingredients determined non-hazardous.		MED

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.

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## 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** 63°C (Solvent)

**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:** On burning may emit toxic fumes.

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

## 6. ACCIDENTAL RELEASE MEASURES:

**ACTION TO TAKE FOR SPILLS:** In the event of a major spill, prevent spillage from entering drains or watercourses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel.

Immediately call the Fire Brigade. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered.

Thoroughly launder protective clothing before storage or re-use. Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry

## 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Combustible C1. 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.

**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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Clear to brown liquid

**ODOUR:** Mild solvent odour

**SOLUBILITY IN WATER:** Emulsifies

**SPECIFIC GRAVITY:** 1.060

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.

**INCOMPATIBILITY:** Avoid strong oxidizing agents

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

**HAZARDOUS POLYMERIZATION:** This product is unlikely to spontaneously polymerise.

## 11. TOXICOLOGICAL INFORMATION:

Permethrin Technical

Oral (Rats) LD<sub>50</sub>: 430mg/Kg

Dermal (Rats) LD<sub>50</sub>: > 6000 mg/Kg

Inhalation (Rats, 4hr) LC<sub>50</sub>: 2.3 mg/L/4 hrs

## 12. ECOLOGICAL INFORMATION:

**ENVIRONMENTAL DATA:** This substance has low mobility in soil. It has a high potential for bioaccumulation but is rapidly eliminated from fish (about 80% in 14 days). There is evidence of degradation in soil and water. The half-life in soil is less than 38 Days.

**ECOTOXICOLOGY:** Active ingredient – Permethrin:

**AQUATIC TOXICITY:**

Very toxic to aquatic organisms

96 hr LC<sub>50</sub> (rainbow trout): 2.5 ug/L

48 hr LC<sub>50</sub> (rainbow trout): 5.4 ug/L.

45 hr LC<sub>50</sub> (bluegill sunfish): 1.8 ug/L.

48 hr LC<sub>50</sub> (Daphnia magna): 0.6 ug/L

**TERRESTRIAL TOXICITY:**

Toxic to bees

24 hr Oral LD<sub>50</sub> (bee): 0.098 ug/bee 24 hr Topical

LD<sub>50</sub> (bee): 0.029ug/bee. Oral LD<sub>50</sub> (chicken): >

3000 mg/kg.

Oral LD<sub>50</sub> (Japanese) quail): > 13,500 mg/kg.

## 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:** Dispose of empty, used containers by;

- 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.
- Breaking, crushing or puncturing the containers to prevent reuse.
- 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 & RAIL TRANSPORT:** Exempt AU01 from classification as dangerous goods by the criteria of the Australian dangerous Goods Code 7 (ADG) for the transport by road and rail.

**MARINE TRANSPORT:** 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

**Class:** 9 Miscellaneous Dangerous Goods

**Packing group:** III

**SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S (CONTAINS PERMETHRIN)

Marine Pollutant

**Hazchem 2Z**

## 15. REGULATORY INFORMATION:

**POISON SCHEDULE:** S6


Signal word: POISON

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA number 69505

## 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

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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**