SAFETY DATA SHEET

Garrards Pty Ltd	Date Issued: 10 June 2021
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1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Deltra

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

USE: Residual Insecticide

2. HAZARDOUS IDENTIFICATIONS:

Not classified as hazardous according to criteria of Safe Work Australia

GHS Classification of the substance/mixture

- Hazardous to the aquatic environment (acute) – category 1

Signal Word(s): None

Hazard Statement(s)

- H410 Very toxic to aquatic life

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): Environment



Precautionary Statement(s) – Prevention

- P202 Do not handle until all safety precautions have been read and understood
- P280 Wear protective gloves, clothing, eye and face protection

Precautionary Statement(s) – Response

- P302+P352 If on skin: wash with plenty of soap and water.
- 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.
Deltamethrin	52918-63-5	10g/L
Tetramethrin	7696-12-0	10g/L
Piperonyl butoxide	51-03-6	80g/L
Water	7732-18-5	Vhigh
Other ingredients determined non-hazardous.		Low

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.

5. FIRE FIGHTING MEASURES:

FLASH POINT: N/A

FLAMMABLE LIMITS: N/A

EXTINGUISHING MEDIA: Water spray, carbon dioxide, foam, dry chemical. Do not use a water jet from a fire hose.

FIRE AND EXPLOSION HAZARDS: Heating / combustion will generate oxides of carbon and nitrogen and other irritant toxic fumes.

FIRE-FIGHTING EQUIPMENT: Fire fighters should wear full protective clothing and self contained breathing apparatus.
Note: Do not release contaminated water into the environment. Keep intact containers cool by spraying with water.

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 hydrate 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: white liquid
ODOUR: No odour.
SOLUBILITY IN WATER: forms a suspension
SPECIFIC GRAVITY: 1.014
BOILING POINT: 100^{0}C

10. STABILITY AND REACTIVITY

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

INCOMPATIBILITY: Avoid strong oxidising agents, acids alkalis, alloys and iron.

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

HAZARDOUS POLYMERIZATION: This product is unlikely to spontaneously polymerise.

11. TOXICOLOGICAL INFORMATION:

Deltamethrin: Oral LD_{50} (rat): 130 mg/kg
Dermal LD_{50} (rabbit): >2,000 mg/kg
Inhalation LC_{50} (rat): 2.2 mg/L (4hr)

Eye irritation (rabbit): slight irritant.

Tetramethrin: Oral LD_{50} (rat): > 5,000 mg/kg
Dermal LD_{50} (rat): >5,000 mg/kg
Inhalation LC_{50} (rat): >1,180mg/L (3hr)

12. ECOLOGICAL INFORMATION:

ENVIRONMENTAL DATA: Deltamethrin is highly toxic to fish and aquatic organisms. Deltamethrin is not persistent in the environment. It is destroyed by soil microorganisms and does not leave residues in the environment, or build up in the food chain. Tetramethrin is not toxic to bees.

ECOTOXICOLOGY:
Deltamethrin:
LC_{50} (96h) fish: 0.001-0.01 mg/L
LD_{50} duck: >5,000 mg/kg
LD_{50} quail: > 10,000mg/kg

Tetramethrin:
LD_{50} 8 day dietary (Mallard duck): >1,000mg/kg
LD_{50} 8 day dietary (bobwhite quail): >1,000mg/kg

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 & RAIL TRANPORT: 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.

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 Deltamethrin)
Class: 9
Packing group: III
Marine Pollutant
Hazchem code 2Z

15. REGULATORY INFORMATION:

POISON SCHEDULE: S5
Signal word: CAUTION

This product is registered with the Australian Pesticides and Veterinary Medicines Authority.
APVMA number 54682

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.

Contact Point:

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