

MATERIAL SAFETY DATA SHEET



A&C Rural Pty Ltd	Date Issued: March 2001
Narangba Qld, 4504	Reviewed Date: February 2003
Ph: (07) 3897 2000	Fax: (07) 3897 2022
www.aandc.com.au	Product Code: Dtpru1010

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Deltra

COMPANY IDENTIFICATION:

A&C Rural

Lot 96 Potassium Street

Narangba, Queensland 4504

USE: Insecticide

2. 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

3. HAZARDOUS IDENTIFICATIONS:

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects, which could occur if this material is not handled in the recommended manner.

EYE: May irritate eye

SKIN: Irritating to skin. Contact with skin, especially the face, may result in initial burning sensations followed by numbing which may persist for a few hours.

INGESTION: Product is harmful if swallowed. Symptoms include headache, dizziness, drowsiness, diarrhoea, nausea & vomiting.

INHALATION: Inhalation of spray may cause transient irritation of mucous membranes (nose, throat and respiratory tract) for up to 24 hours.

SYSTEMIC (other target organ): One reference indicates that exposure to large amounts of piperonyl butoxide may cause blood disorders or liver damage.

CANCER INFORMATION: Active ingredients are not classed as carcinogenic.

TERATOLOGY (Birth defects): Active ingredients are not classed as teratogenic.

MUTAGENICITY: The Active ingredients are not considered to be mutagenic.

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 Material Safety Data Sheet to a doctor.

EYE: Rinse immediately with plenty of water for at least 15 minutes, holding eye open and taking care to rinse under eyelids as well. If irritation persists seek medical attention.

SKIN: Wash off skin immediately with soap and plenty of water. Remove all contaminated clothing and shoes. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

INGESTION: Wash out mouth with water. Do not induce vomiting. Keep patient at rest and seek medical advice.

INHALATION: Remove victim to fresh air. Seek medical advice if symptoms are experienced.

NOTE TO PHYSICIAN / FIRST AIDERS: Treat Symptomatically. Induction of vomiting is preferably performed under trained medical supervision. Note the nature of this product. Skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a moisturising cream or anaesthetic ointment.

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.

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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 Worksafe Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m³ 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, chemical goggles 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°C

10. STABILITY AND REACTIVITY

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

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

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

HAZARDOUS POLYMERIZATION: This product is unlikely to spontaneously polymerise.

11. TOXICOLOGICAL INFORMATION:

Deltamethrin: Oral LD₅₀ (rat): 130 mg/kg
Dermal LD₅₀ (rabbit): >2,000 mg/kg
Inhalation LC₅₀ (rat): 2.2 mg/L (4hr)
Eye irritation (rabbit): slight irritant.

Tetramethrin: Oral LD₅₀ (rat): > 5,000 mg/kg
Dermal LD₅₀ (rat): >5,000 mg/kg
Inhalation LC₅₀ (rat): >1,180mg/L
(3hr)

Piperonyl butoxide: Oral LD₅₀ (rat): 5,630 mg/kg
Dermal LD₅₀ (rabbit): >2,000 mg/kg
Inhalation LC₅₀ (rat): >5.9mg/L (4 hr)

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 & piperonyl butoxide are not toxic to bees.

ECOTOXICOLOGY:

Deltamethrin:
LC₅₀ (96h) fish: 0.001-0.01 mg/L
LD₅₀ duck: >5,000 mg/kg
LD₅₀ quail: > 10,000mg/kg

Tetramethrin:
LD₅₀ 8 day dietary (Mallard duck): >1,000mg/kg
LD₅₀ 8 day dietary (bobwhite quail): >1,000mg/kg

Piperonyl butoxide:
LC₅₀ (24hour) carp: 5.3mg/L
Acute oral LD₅₀ starlings: >100mg/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 AND RAIL TRANSPORT:

Not classified as Dangerous Goods by the criteria of the Australian dangerous goods Code (ADG) for the transport by Road and Rail.

MARINE TRANSPORT:

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods code (IMDG Code) for transport by sea.

AIR TRANSPORT:

Not classified as dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for the transport by air.

15. REGULATORY INFORMATION:

POISON SCHEDULE: 5

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 A&C Rural cannot anticipate or control conditions under which this product may be used. A&C Rural 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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A&C Rural	(07) 3897 2000 phone (07) 3203 2022 Fax
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