

# MATERIAL SAFETY DATA SHEET



A&C Rural Pty Ltd	Date Issued: 07.02.03
Narangba Qld, 4504	Reviewed Date: March 2005
Ph: (07) 3897 2000	Fax: (07) 3897 2022
<a href="http://www.aandc.com.au">www.aandc.com.au</a>	Product Code: Bifru1020

## 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** BIFENTHRIN 100 EC

### COMPANY IDENTIFICATION:

A&C Rural  
Lot 96 Potassium Street  
Narangba, Queensland 4504

**USE:** Termiticide and Insecticide

**SUBSTANCE:** Bifenthrin is a pyrethroid derivative.

## 2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients	CAS Reg. No.	Conc.
Bifenthrin	82657-04-3	100g/L
Liquid Hydrocarbon (Aromatic Solvent) (Paraffinic Solvent)	64742-94-5 8012-95-1	559g/L
N-Methyl-2-Pyrrolidone	872-50-4	50g/L
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:

- CLASSIFIED HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA**

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

**EYE:** Irritant to eye

**SKIN:** Irritant to skin. Repeated or prolonged skin contact may lead to contact dermatitis

**INGESTION:** Very Toxic. Very harmful if swallowed

**INHALATION:** This product is very toxic if inhaled.

**SYSTEMIC** (other target organ): Central Nervous System

**CANCER INFORMATION:** No significant ingredient is classified as carcinogenic by NOHSC or NTP. The EPA has classed the active ingredient – Bifenthrin as a class C carcinogen, a possible human carcinogen.

**TERATOLOGY** (Birth defects): No evidence of in laboratory animals

**REPRODUCTIVE EFFECTS:** No evidence of in laboratory animals

**MUTAGENICITY:** No data available

**NOTE:** Workers exposed to hydrocarbon solvents in high concentrations, will typically show signs of central nervous system depression. Disorientation, euphoria, giddiness and confusion, progressing to unconsciousness, paralysis, convulsion and death from respiratory or cardiovascular arrest may be observed.

## 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 persist 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. 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. The formulation also contains petroleum distillates that can cause severe pneumonitis or fatal pulmonary edema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Otherwise treat symptomatically.

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## 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** 68°C (Combustible liquid C1)

**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:** Combustible liquid. 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 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/m<sup>3</sup> 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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Light brown liquid  
**ODOUR:** Aromatic Hydrocarbon Odour  
**SOLUBILITY IN WATER:** Product emulsifies in water  
**SPECIFIC GRAVITY:** 0.905  
**BOILING POINT:** Not available

## 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<sub>50</sub>: 54mg/kg - 70mg/kg

## 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<sub>50</sub> (Rainbow trout): 0.00015mg/L

96 hr LC<sub>50</sub> (Bluegill sunfish): 0.00035mg/L

96hr LC<sub>50</sub> (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:** Not classified as Dangerous Goods by the criteria of Australian Dangerous Goods Code (ADG) for the transport by Road and Rail.

**MARINE TRANSPORT:** This product is a marine pollutant according to International Maritime Dangerous Goods Code. (IMDGC)

**UN No:** 3082

**Class:** 9 Miscellaneous Dangerous Goods

**PG:** III

**Proper Shipping Name:** ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID, (CONTIANS BIFENTHRIN).

**AIR TRANSPORT:** This product is classified as Dangerous Goods by the International Air Transport Association (IATA) dangerous goods regulation for the transport by air.

**UN No:** 3082

**Class:** 9 Miscellaneous Dangerous Goods

**PG:** III

**Proper Shipping Name:** ENVIROMENTALLY HAZARDOUS SUBSTANCE LIQUID, (CONTIANS BIFENTHRIN).

## 15. REGULATORY INFORMATION:

**POISON SCHEDULE:** S6

### RISK PHRASES:

R20/22 Harmful by inhalation and if swallowed

R43 May cause sensitization by skin contact

### SAFETY PHRASES:

S2 Keep out of reach of children

S23 Do not breath vapour/spray

S24 Avoid contact with the skin

S44 If you feel unwell, contact a doctor or Poisons Information Centre immediately. (Show the label where possible).

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## 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:

In case of emergency contact Emergency Services

**Phone: 000**

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