

SAFETY DATA SHEET

**PCT International Pty Ltd**

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AVERT***COCKROACH GEL BAIT**

This product is designated a Non-Hazardous Substance according to the criteria of Worksafe Australia

This revision issued: July 2013

1. IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Product name: AVERT® COCKROACH GEL BAIT
Other names: Abamectin
Formulation type: Gel bait
Poison Schedule: S6
Recommended use: insecticidal gel bait for cockroach control as described on the product label.
Supplier: PCT International Pty Ltd
Address: Unit 5 / 74 Murdoch Cct, ACACIA RIDGE QLD 4110
Telephone: (07) 3711 7022
Fax: (07) 3711 7055
Website: www.pct.au.com
Contact: David Pearson
Emergency telephone No: 1800 630 877

2. COMPOSITION of/ INFORMATION on/ INGREDIENTS

| Ingredients | CAS No | Proportion |
|-----------------------------------|------------|------------|
| Abamectin | 71751-41-2 | 0.5g/kg |
| Other (non-hazardous) ingredients | | to 100% |

3. HAZARDS IDENTIFICATION

Hazard Designation: N/a
Risk Phrases: N/a
Safety Phrases: N/a
SUSDP Classification: S6
ADG Classification: none allocated
UN Number: none allocated

4. FIRST AID MEASURES

| | |
|--------------------------|--|
| Inhalation: | Not applicable- product is a gel. |
| Skin Contact: | Remove contaminated clothing and wash the contact area with flowing water and soap. Launder clothing before reuse. |
| Eye Contact: | Exposure is unlikely. The product may cause slight irritation to the eyes, reversible within 24hrs. Hold eyes open and rinse slowly and gently with flowing water for at least 15mins. If eye irritation persists, seek medical attention. |
| Ingestion: | If suspected poisoning occurs, call the Poisons Information Centre on 131126 or a doctor, for advice on treatment. |
| Advice to Doctor: | No specific antidote is available. Treatment is both symptomatic and supportive. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Fire Extinguisher type: | Water, CO ₂ or foam. |
| Fire Fighting Procedures & Precautions: | No specific precautions required. |
| Hazardous Decomposition Products: | Thermal decomposition and burning may produce some toxic fumes. |
| Flash Point: | Not applicable- product is non-flammable and non-combustible. |
| Flammability Class: | Not applicable- product is non-flammable and non-combustible. |

6. ACCIDENTAL RELEASE/ SPILLS MEASURES

Avoid contact with spilled material or contaminated surfaces. Keep people and animals away. Prevent spillage from entering drains, sewers or watercourses. If contamination thereof is unavoidable, warn the local water authority. Spills should be contained and absorbed with soil, sand, sawdust, clay, cat litter or other similar material, and once absorption is complete, this material then be placed in sealable, labeled, drums for safe disposal in an approved landfill, and in accordance with the requirements of local or State Waste Management Authorities. Small spills should be wiped up with a damp cloth while still wet, wrapped in newspaper or similar, and disposed of in an approved landfill. Alternatively, bury under at least 500^{mm} of soil in an area away from crops, pastures, homes or water sources. To decontaminate spill area, tools and equipment, wash with a suitable solution, *e.g.* organic solvent, detergent, bleach or caustic, and add this material to the drums of waste already collected. Label all contents. Do not burn empty containers or product.

7. HANDLING AND STORAGE

| | |
|------------------|--|
| Handling: | Keep out of reach of children. Wash hands and exposed skin before eating, drinking or smoking, and after using the product. Launder all contaminated clothing thoroughly before re-use. |
| Storage: | Store product in original packing in a dry, cool, well ventilated area away from sources of heat or ignition. Store away from fertilizers, seed, feed and food. Keep out of reach of children, unauthorized persons and animals. |

8. EXPOSURE CONTROLS & PERSONAL PROTECTION

| | |
|-------------------------|---|
| Exposure Limits: | Not available |
| Ventilation: | None required |
| Eye Protection: | Safety glasses are recommended when using the product. |
| Skin Protection: | Waterproof, latex gloves should be worn when using the product. |
| Respirator: | Not required when used according to label directions. |

9. PHYSICAL & CHEMICAL PROPERTIES

| | |
|------------------------------|--------------------------------|
| Physical Description: | Brown gel. |
| Odour: | Slight sweet corn sugar smell. |
| Specific Gravity: | Not available. |
| Water Solubility: | Slightly soluble in water. |
| Volatility: | Not established. |
| Odour Threshold: | Not established. |
| Evaporation Rate: | Not established. |

10. STABILITY & REACTIVITY

| | |
|-----------------------------|---|
| Reactivity: | Stable under normal conditions of storage and use. |
| Conditions to Avoid: | Do not apply onto very hot surfaces. |
| Incompatibilities: | Abamectin can be hydrolyzed by strong caustic solutions. |
| Fire Decomposition: | Thermal decomposition & burning may produce some toxic by-products. |
| Polymerisation: | Will not occur. |

11. TOXICOLOGICAL INFORMATION

| | |
|------------------------------|--|
| Reproductive Effects: | No data available. |
| Mutagenic Effects: | No evidence obtained with Abamectin technical. |
| Carcinogenic Effects: | No evidence obtained with Abamectin technical. |
| Carcinogenic status: | Product is not considered to be carcinogenic. |
| Animal Toxicity Data: | Pure Abamectin is considered to be highly toxic in acute animal studies. |

12. ECOLOGICAL INFORMATION

Relative toxicity values of technical Abamectin are:

| Species | LD ₅₀ /LC ₅₀ | Relative Toxicity |
|----------------------------|--------------------------------------|-----------------------|
| Mammal (rat) | LD ₅₀ Oral : 10 mg/kg | Very toxic |
| Mammal (rabbit) | LD ₅₀ Dermal: >2000 mg/kg | Slightly toxic |
| Bird (quail) | LD ₅₀ >2000 mg/kg | Practically non toxic |
| Bees (honey) | LD ₅₀ >0.009 µg/bee | Highly toxic |
| Fish (trout) (96 hour) | LC ₅₀ >0.003 mg/L | Very highly toxic |
| Other (earthworm) (28 day) | LC ₅₀ >28 mg/kg soil | - |

Effects on Birds: Abamectin is practically non-toxic to birds.

Effects on Aquatic Organisms: Abamectin is very toxic to fish and other aquatic species. Ensure that contamination of watercourses does not occur with product or used containers.

**Environmental Persistence
& Degradation:**

Abamectin is rapidly degraded in water. It undergoes rapid photodegradation, with a half-life of 12 hours in water. Plants do not absorb Abamectin from soil.

13. DISPOSAL CONSIDERATIONS

Dispose of empty, used containers at least 500^{mm} deep in a disposal pit away from desirable plants and their roots and from watercourses, or in a local authority landfill. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

| | |
|-----------------------------------|-----|
| UN Number: | N/A |
| Proper Shipping Name: | N/A |
| Class and Subsidiary Risk: | N/A |
| Packing Group: | N/A |
| Hazchem Code: | N/A |

15. REGULATORY INFORMATION

APVMA Approval No: 50728/1200

16. OTHER INFORMATION

This SDS contains only safety-related information. For other data, see product literature.

The above information is correct and accurate to the best of our knowledge. However, no warranty, expressed or implied, is made as to its accuracy or completeness of data herein. Further research and investigation may be required for your particular use of this product.

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Date of Issue: March 2011

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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME: David Grays Bifenthrin Termite and Insect Treatment

OTHER NAME: Not Applicable

MANUFACTURERS CODE: 23088

USE: For the protection of structures from subterranean termite damage and for the control of termites and a range of other urban pests, as specified in the directions for use table.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

HAZARD CLASSIFICATION (In accordance with criteria of Work safe Australia): X_n – Harmful
Classified as hazardous according to the criteria of NOHSC.

RISK PHRASES: R65- Harmful: May cause lung damage if swallowed

SAFETY PHRASES: S2- Keep out of reach of children
S23 – Do not breath spray
S24 – Avoid contact with skin

INGREDIENTS

| CHEMICAL NAME | CAS.NO. | PROPORTION |
|---|------------|------------|
| Hydrocarbon Solvent | 64742-94-5 | 562g/L |
| Bifenthrin | 82657-04-3 | 100g/L |
| N-Methyl-2-pyrrolidone | 872-50-4 | 50g/L |
| Other ingredients classified as non hazardous | | To 100% |

Issued: 18/01/11

FIRST AID MEASURES

GENERAL:

In every case of suspected poisoning contact a doctor or a Poisons Information Centre immediately.

SWALLOWED:

Seek medical attention immediately. Do not induce vomiting. It is recommended to give a slurry of activated charcoal to absorb the product swallowed.

NOTE: Do not give fluids, tablets or induce vomiting if patient is unconscious or convulsing.

EYE:

Hold eyelids open and flush eyes with water for at least fifteen minutes. Seek medical attention.

SKIN:

Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least fifteen minutes. If symptoms of poisoning occur seek medical attention immediately.

INHALED:

Immediately remove patient to fresh air. If difficulty in breathing is experienced, give oxygen and artificial respiration if necessary.

FIRST AID FACILITIES:

Soap, water, Activated Charcoal.

ADVICE TO DOCTOR:

David Grays Bifenthrin Termiticide & Insecticide contains petroleum type solvents and the benefits of induced vomiting must be weighed against possibility of chemical pneumonia caused by petroleum like solvents.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon Dioxide or Dry chemical

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Dioxide

FIRE FIGHTING PERSONAL PROTECTIVE EQUIPMENT: Wear positive pressure self-contained breathing apparatus. Chemical resistant boots, nitrile gloves and chemical resistant overalls.

HAZCHEM CODE: Not relevant

ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE: Spill or leak area should be isolated immediately. Immediately contact police or fire brigade. Keep all unauthorised persons away from the area. Contain spill if safe to do so. (See below)

CONTAINMENT AND CLEAN UP: Contain spill by using absorbent material ie (sand, earth or attapulgate). Cover any open drains with plastic, rubber etc. (See section handling and storage for PPE requirements) Prevent entry into water ways. Disposal of contaminated material must be done in accordance with State and/or Local regulations.

Small spills: If spilt indoors, wash contaminated surfaces with mild bleach solution (sodium hypochlorite).

HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

When handling the product, preparing and using spray wear:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length PVC neoprene or nitrile gloves.
- goggles.
- half faced respirator with suitable filter for organic solvent vapours. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

STORAGE:

Keep out of direct sunlight and provide adequate ventilation. Avoid contact with strong acids /caustics.

EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS:

Worksafe Occupational Exposure Standard (TWA – Time Weighted Average)

No data available

Time Weighted Average (TWA) means the average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five day working week.

BIOLOGICAL LIMIT: Not relevant

ENGINEERING CONTROLS:

Use only in a well ventilated area.

PERSONAL PROTECTIVE EQUIPMENT:

- chemical resistant overalls with hood, buttoned to the neck.
- elbow length PVC neoprene or nitrile gloves.
- goggles.
- half faced respirator with combined dust/toxic vapour cartridge. Remove contaminated clothing immediately and wash thoroughly. Wash hands, face and arms immediately after use and before eating and drinking.

PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|--|
| APPEARANCE: | Clear yellow liquid. |
| ODOUR: | Slight solvent odour |
| pH: | Not relevant |
| VAPOUR PRESSURE: | 0.074 kPa solvent, 1.8×10^{-7} mm Hg (Bifenthrin) |
| VAPOUR DENSITY: | Not applicable |
| BOILING POINT: | Hydrocarbon solvent 178 – 209 deg C |
| MELTING POINT: | < -20 deg C |
| SOLUBILITY IN WATER: | emulsifiable |
| SPECIFIC GRAVITY: | 0.95 |
| FLASH POINT: | >66 deg C (PMCC) |
| FLAMMABILITY LIMITS: | Solvent - Lower 0.9%, Upper 6.0% (v/v in air) |
| IGNITION TEMPERATURE: | No data available |

STABILITY AND REACTIVITY

| | |
|--|--|
| CHEMICAL STABILITY: | Stable at normal storage conditions |
| CONDITIONS TO AVOID: | Heat |
| INCOMPATIBLE MATERIALS: | Do not expose to oxidising agents, acids and alkalis |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Carbon Dioxide |
| HAZARDOUS REACTIONS: | No data available |

TOXICOLOGICAL INFORMATION

GENERAL:

No adverse health effects are expected when the product is used in accordance with label directions. If mishandled (excessive exposure) may cause headaches and allergic reaction with skin contact.

ACUTE

SWALLOWED:

The acute oral toxicity is high. Oral LD50 (rat) 54.5mg/kg (Bifenthrin).

For product Oral LD50 (rat) 545mg/kg

EYE:

Moderate eye irritant.

SKIN:

The acute dermal toxicity is low, however repeated exposure may result in absorption of harmful amounts. Repeated skin contact may cause allergic reactions. Dermal LD50 (rabbit) >2000mg/kg (Bifenthrin).

For product LD50 >20000mg/kg.

INHALED:

The acute inhalation toxicity is moderate. Excessive exposure to spray may be harmful. Prolonged exposure to the spray may cause eye and respiratory irritation, dizziness and headaches.

Inhalation LD50 = no data available

CHRONIC:

Bifenthrin does not cause generic change or accumulate in the body. Long term carcinogenicity studies of the active ingredient, bifenthrin, on rats and mice showed no increase in tumours.

ECOLOGICAL INFORMATION

ECOTOXICITY: Toxic to aquatic organisms

PERSISTENCE AND DEGRADABILITY: The half-life for Bifenthrin is 65 –125 days depending on soil type

MOBILITY: From Koc values bifenthrin is immobile in soil.

DISPOSAL CONSIDERATIONS

Disposal of contaminated material must be done in accordance with State and/or Local regulations. Do not allow chemical containers, spray or washing's to contaminate drains, sewers, streams, ponds or any Waterways.

TRANSPORT INFORMATION

Product is not classified as a dangerous good in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail.

| | |
|--------------------------------------|------------------------|
| UN NUMBER: | Not applicable |
| CORRECT SHIPPING NAME: | Not applicable |
| DANGEROUS GOODS CLASS: | Not applicable |
| SUB-CLASS: | Not applicable |
| PACKAGING GROUP: | Not applicable |
| SPECIAL PRECAUTIONS FOR USER: | Avoid extremes of heat |
| HAZCHEM CODE: | Not applicable |

REGULATORY INFORMATION

This product is a schedule 6 poison (S6) by the Uniform Scheduling of Drug and Poisons established under the Therapeutic Goods Act (1989)

OTHER INFORMATION

CONTACT POINT

TITLE: Technical Department

TELEPHONE NUMBER: (08) 9337 4933

AUTHORISED: Celine Schnell

DATE: 18.01.2011

NOTICE:

This Material Safety Data Sheet has been developed according to the Worksafe Australia/NOHSC Codes of Practice.

The information contained herein is given in good faith however and is considered to be accurate at the specified issue date. No warranty expressed or implied is made to the accuracy or completeness of the data and information contained herein.

No person, other than an authorised representative of David Gray & Company Pty Ltd, has the authority to make any alterations to this MSDS.

Contact David Gray & Co Pty Limited for further product information on (08) 9337 4933 during normal business hours.