

MATERIAL SAFETY DATA SHEET

Kordon Termite Barrier

Date of Issue: 18th June 2007

1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND SUPPLIER

Product name: **Kordon[®] Termite Barrier**
Other names: Kordon[®] Termite Moisture Barrier
SAP product code: Kordon TMB: 182656 (50 m x 1.5 m)
Kordon Termite Barrier: 998080 (50 m x 300 mm)
Recommended use: A chemically impregnated physical barrier for use in termite management
Supplier: Bayer Environmental Science – A Business Group of Bayer CropScience Pty Ltd ABN 87 000 226 022
Address: 391 - 393 Tooronga Road, East Hawthorn Victoria 3123, Australia
Telephone: (03) 9248 6888
Facsimile: (03) 9248 6800
Website: www.bayercropscience.com.au
Contact: Technical Manager (03) 9248 6888
Emergency Telephone Number: 1800 033 111 – Orica SH&E Shared Services

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE - NON-DANGEROUS GOOD

Hazard designation: Not classified as hazardous according to criteria of Worksafe Australia.
Risk phrases: Not applicable
Safety phrases: Not applicable
ADG classification: Not “dangerous goods” for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
SUSDP classification: Exempt

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Concentration (g/m ²):
Deltamethrin	[52918-63-5]	2
Other ingredients	(non hazardous)	to100%

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4. FIRST AID MEASURES

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.

Inhalation:	Presentation of product means inhalation is unlikely. Studies have shown that no volatile compounds are emitted from Kordon Termite Barrier.
Skin contact:	Wash skin with soap and plenty of water. Seek medical advice if irritation persists.
Eye contact:	Nature of product means eye contact is unlikely. If eye irritation occurs as a result of handling product and then transfer from hand to eye then wash eyes out with clean water for 15 minutes.
Ingestion:	Ingestion is unlikely. If product enters mouth wash out mouth with water.
First Aid Facilities:	Ensure washing facilities are available – including an eye wash.
Symptoms:	Symptoms include burning/tingling sensations of the skin. These are temporary and no long terms effects are to be expected if they occur.
Medical attention:	Skin contacted by deltamethrin must be carefully cleaned with cleansing milk. Symptoms can be partially alleviated by the application of a vitamin E or moisturising cream or anaesthetic ointment. For eyes, instil local anaesthetic drops e.g. 1% amethocaine hydrochloride eye drops.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray, carbon dioxide, foam, dry chemical. Do not use a water jet from a fire hose.
Hazards from combustion products:	Not known to produce hazardous reactions.
Precautions for fire fighters:	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1716), as toxic and irritating decomposition products may be produced in a fire. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area to prevent contamination of water sources. Dispose of fire control extinguishing agent and spillage later in a safe manner. Do not release contaminated water into the environment.

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6. ACCIDENTAL RELEASE MEASURES

When dealing with any spilled material do not eat, drink or smoke. Avoid skin contact with cut edges of product. Keep people and animals away.

Do not allow product to enter drains, sewers or watercourses. Collect material and place in labelled container for appropriate disposal at a landfill. (Or for intended use if applicable).

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Avoid contact with eyes and skin.

Storage: Store in a cool, dry, well-ventilated area. Keep away from food, drink and animal feeds. Keep out of direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards: No exposure standard has been assigned by the National Occupational Health and Safety Commission (Worksafe Australia). Bayer recommends an Occupational Exposure Standard for deltamethrin of 0.28 mg/m³.

Engineering controls: No special ventilation is required, as this product is not volatile. Control process conditions to avoid contact.

Personal Protective Equipment: Eyes: Not necessary.
Clothing: Wear clothing designed to prevent skin contact.
Gloves: Wear gloves if prolonged skin contact with cut edges is likely.
Respiratory: Respiratory protection is not required when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid, laminated blanket – orange upper membrane and black lower membrane

Odour: Practically no odour

Vapour pressure: Not available

Vapour density: Not available

Boiling point: Not available

Solubility: Entire product is not soluble in water

Density: 1.01 at 20°C

pH: Not available

Flash Point: Not applicable

Auto-ignition temperature: Not applicable

Octanol/water partition coefficient: Not available

Formulation: Solid

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10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	Not available
Conditions to avoid:	Not available
Incompatible materials:	Avoid oxidising agents, strong acids and alkalis.
Hazardous decomposition products:	Not Available

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

Inhalation:	Inhalation of the product is unlikely
Skin contact:	Contact with the skin, especially the face, may result in initial stinging or burning sensations followed by numbing which may persist for a few hours. (Although skin irritation tests in animals show deltamethrin to be non-irritating, experience has shown it to cause these symptoms on human skin.)
Eye contact:	Irritant.
Ingestion:	Ingestion of the product is unlikely.
Other:	None

ANIMAL TOXICITY DATA – Liquid 1% SC PRODUCT AND ACTIVE INGREDIENT:

Acute:

Oral toxicity:	LD ₅₀ rat: > 10,000 mg/kg (product) LD ₅₀ rat: 130 (deltamethrin)
Dermal toxicity:	LD ₅₀ rat: > 10,000 mg/kg (product) LD ₅₀ rabbit: > 2,000 mg/kg (deltamethrin)
Inhalation toxicity:	LC ₅₀ (4 h) rat: 2.2 mg/L (deltamethrin)
Skin irritation:	Non-irritating – rabbit (deltamethrin)
Eye irritation:	Slight irritant – rabbit (deltamethrin)
Sensitisation:	Not sensitising - guinea pig (deltamethrin)

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Chronic:

Deltamethrin is not mutagenic, carcinogenic or teratogenic.

12. ECOLOGICAL INFORMATION

Deltamethrin is highly toxic to fish, aquatic organisms and bees in laboratory studies, but considered less toxic under natural conditions.

Fish toxicity: Deltamethrin: LC₅₀: 0.001 – 0.01 mg/L (96 h) fish.

Daphnia toxicity: Not available

Toxicity to algae: Not available

Bird toxicity: Deltamethrin: LD₅₀: > 5,000 mg/kg duck
Deltamethrin: LD₅₀: > 10,000 mg/kg quail

Bee toxicity: Deltamethrin found to be highly toxic in lab studies but considered less toxic under natural conditions.

Other: None

Environmental fate, persistence and degradation: Deltamethrin is not persistent in the environment. It is destroyed by soil micro-organisms and does not leave residues in the environment or build up in the food chain.
Do not contaminate streams, rivers or waterways with the product or used containers.

13. DISPOSAL CONSIDERATIONS

It is recommended to dispose of this product through its intended use. Off-cuts of this material may be placed on top of an installed Kordon barrier prior to concrete slab pour. Alternatively off-cuts should be tied in a plastic bag and disposed of at a landfill facility.

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14. TRANSPORT INFORMATION

UN number: Not applicable
Proper shipping name: Not applicable
Class and Subsidiary Risk: Not "dangerous goods" for transport by road or rail according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packing Group: Not applicable
EPG: Not applicable
Hazchem code: Not applicable

15. REGULATORY INFORMATION

Australian Pesticides and Veterinary Medicines Authority Approval Number:
Not Yet Applicable
APVMA Permit for Supply and Use of Unregistered Chemical Product PER8925.

16. OTHER INFORMATION

Trademark information: Kordon[®] is a Registered Trademark of Bayer.

Preparation information: Replaces October, 2004 edition.
Reason for update: New regulatory requirements.

Data sources: Bayer CropScience Pty Ltd product safety data and published data

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

END OF MSDS