## SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

| | |
|---|---|
| **Trade name** | Kordon® Termite Barrier |
| **Product code (UVP)** | 81694117 |

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| | |
|---|---|
| **Use** | Insecticide |

### 1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| **Supplier** | Bayer Cropscience Pty Ltd<br>ABN 87 000 226 022<br>Level 1, 8 Redfern Road<br>3123 Hawthorn East<br>Victoria<br>Australia |
| **Telephone** | (03) 9248 6888 |
| **Telefax** | (03) 9248 6800 |
| **Responsible Department** | 1800 804 479 Technical Information Service |
| **Website** | www.es.bayer.com.au |

### 1.4 Emergency telephone no.

| | |
|---|---|
| **Emergency telephone no.** | 1800 033 111 IXOM Operations Pty Ltd |

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification in accordance with Australian GHS Regulation**

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1
H410 Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling according to specific Australian legislation**

No hazard label for supply/use required.

### 2.3 Other hazards

No additional hazards known beside those mentioned.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature**

Deltamethrin 0,4 % w/w
Others (XX)

| Chemical name | CAS-No. | Concentration [%] |
|---|---|---|
| Deltamethrin | 52918-63-5 | 0.40 |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | 55965-84-9 | > 0.0002 - < 0.0015 |
| Other ingredients (non-hazardous) to 100% | | |

## SECTION 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 Safety Data Sheet to the doctor.**

### 4.1 Description of first aid measures

**Inhalation** Move to fresh air.

**Skin contact** Wash off with soap and water. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. If symptoms persist, call a physician.

**Eye contact** In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Ingestion** Rinse mouth.

### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms** Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours, Skin, eye and mucous membrane irritation, Cough, Sneezing

Systemic:, discomfort in the chest, tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness

### 4.3 Indication of any immediate medical attention and special treatment needed

**Risks** This product contains a pyrethroid. Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

| | |
|---|---|
| **Treatment** | Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory and cardiac functions. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Keep respiratory tract clear. Oxygen or artificial respiration if needed. In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens. If not effective, phenobarbital may be used. Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without sequelae.<br><br>In case of skin irritation, application of oils or lotions containing vitamin E may be considered. |

## SECTION 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

| | |
|---|---|
| **Suitable** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Unsuitable** | High volume water jet |

### 5.3 Advice for firefighters

| | |
|---|---|
| **Special protective equipment for firefighters** | In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. |
| **Further information** | Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses. |

**Hazchem Code**Not applicable

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| **Precautions** | Avoid contact with spilled product or contaminated surfaces. |
| **6.2 Environmental precautions** | Do not allow to get into surface water, drains and ground water. |

### 6.3 Methods and materials for containment and cleaning up

| | |
|---|---|
| **Methods for cleaning up** | Collect and transfer the product into a properly labelled and tightly closed container. |
| **Additional advice** | Check also for any local site procedures. |
| **6.4 Reference to other sections** | Information regarding safe handling, see section 7.<br>Information regarding personal protective equipment, see section 8.<br>Information regarding waste disposal, see section 13. |

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

**Advice on protection against fire and explosion** No special precautions required.

**Hygiene measures** When using, do not eat, drink or smoke. Wash hands immediately after work, if necessary take a shower.

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|---|---|---|---|---|
| Deltamethrin | 52918-63-5 | 0.01 mg/m3 (TWA) | | OES BCS* |

*OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

### 8.2 Exposure controls

**Respiratory protection** Respiratory protection is not required under anticipated circumstances of exposure.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection** Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

| | |
|---|---|
| Material | Nitrile rubber |
| Rate of permeability | > 480 min |
| Glove thickness | > 0.4 mm |
| Protective index | Class 6 |
| Directive | Protective gloves complying with EN 374. |

**Eye protection** Eye protection not required when used as recommended.

| | |
|---|---|
| **Skin and body protection** | Light protective clothing |
| **General protective measures** | In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply. |

**Engineering Controls**

| | |
|---|---|
| **Advice on safe handling** | No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| **Form** | sheets |
| **Colour** | orange<br>black |
| **Odour** | No data available |
| **Odour Threshold** | No data available |
| **pH** | No data available |
| **Melting point/range** | No data available |
| **Boiling Point** | No data available |
| **Flash point** | No data available |
| **Flammability** | No data available |
| **Auto-ignition temperature** | No data available |
| **Thermal decomposition** | No data available |
| **Minimum ignition energy** | No data available |
| **Self-accelarating decomposition temperature (SADT)** | No data available |
| **Upper explosion limit** | No data available |
| **Lower explosion limit** | No data available |
| **Vapour pressure** | No data available |
| **Evaporation rate** | No data available |
| **Relative vapour density** | No data available |
| **Relative density** | No data available |
| **Density** | No data available |
| **Water solubility** | insoluble |
| **Partition coefficient: n-octanol/water** | Deltamethrin: log Pow: 6.4 (25 °C) |
| **Viscosity, dynamic** | No data available |

| | |
|---|---|
| **Viscosity, kinematic** | No data available |
| **Oxidizing properties** | No data available |
| **Explosivity** | No data available |

## SECTION 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **10.1 Reactivity** | Stable under normal conditions. |
| **10.2 Chemical stability** | Stable under recommended storage conditions. |
| **10.3 Possibility of hazardous reactions** | No hazardous reactions when stored and handled according to prescribed instructions. |
| **10.4 Conditions to avoid** | Extremes of temperature and direct sunlight. |
| **10.5 Incompatible materials** | Store only in the original container. |
| **10.6 Hazardous decomposition products** | No decomposition products expected under normal conditions of use. |

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | |
|---|---|
| **Acute oral toxicity** | LD50 (Rat) > 10,100 mg/kg<br>Test conducted with a similar formulation. |
| **Acute inhalation toxicity** | ATE (Mix) > 5.0 mg/l<br>Acute toxicity estimate |
| **Acute dermal toxicity** | LD50 (Rat) > 10,100 mg/kg<br>Test conducted with a similar formulation. |
| **Skin corrosion/irritation** | No skin irritation (Rabbit)<br>Test conducted with a similar formulation. |
| **Serious eye damage/eye irritation** | Slight irritant effect - does not require labelling. (Rabbit)<br>Test conducted with a similar formulation. |
| **Respiratory or skin sensitisation** | Non-sensitizing. (Guinea pig)<br>Test conducted with a similar formulation. |

**Assessment mutagenicity**

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**Assessment carcinogenicity**

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

**Assessment toxicity to reproduction**

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

**Assessment developmental toxicity**

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental

effects seen with Deltamethrin are related to maternal toxicity.

**Assessment STOT Specific target organ toxicity – single exposure**

Deltamethrin: Based on available data, the classification criteria are not met.

**Assessment STOT Specific target organ toxicity – repeated exposure**

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Information on likely routes of exposure**

Inhalation not likely., May cause irritation of the mucous membranes.
May cause sensitisation by skin contact.
May cause irritation on prolonged contact.

**Early onset symptoms related to exposure**
Refer to Section 4

**Delayed health effects from exposure**
Refer to Section 11

**Exposure levels and health effects**
Refer to Section 4

**Interactive effects**
Not known

**When specific chemical data is not available**
Not applicable

**Mixture of chemicals**
Refer to Section 2.1

**Further information**

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

## SECTION 12. ECOLOGICAL INFORMATION

**12.1 Toxicity**

| | |
|---|---|
| **Toxicity to fish** | LC50 (Oncorhynchus mykiss (rainbow trout)) 0.15 µg/l<br>Exposure time: 96 h<br>The value mentioned relates to the active ingredient deltamethrin. |
| **Toxicity to aquatic invertebrates** | EC50 (Daphnia magna (Water flea)) 0.0131 µg/l<br>Exposure time: 48 h<br>The value mentioned relates to the active ingredient deltamethrin. |
| **Toxicity to aquatic plants** | EC50 (Algae) > 9.1 mg/l |

Exposure time: 96 h
The value mentioned relates to the active ingredient deltamethrin.

**12.2 Persistence and degradability**

**Biodegradability** Deltamethrin:
Not rapidly biodegradable

**Koc** Deltamethrin: Koc: 10240000

**12.3 Bioaccumulative potential**

**Bioaccumulation** Deltamethrin: Bioconcentration factor (BCF) 1,400
Does not bioaccumulate.

**12.4 Mobility in soil**

**Mobility in soil** Deltamethrin: Immobile in soil

**12.5 Other adverse effects**

**Additional ecological information** No further ecological information is available.

## SECTION 13. DISPOSAL CONSIDERATIONS

Its 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 Kordon plastic delivery bag and disposed of at an approved waste disposal facility.

## SECTION 14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

## SECTION 15. REGULATORY INFORMATION

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994

Australian Pesticides and Veterinary Medicines Authority approval number: 60759

**SUSMP classification (Poison Schedule)**

Exempt (Standard for the Uniform Scheduling of Medicines and Poisons)

## SECTION 16. OTHER INFORMATION

**Trademark information** Kordon® is a Registered Trademark of the Bayer Group.

**Abbreviations and acronyms**

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR European Agreement concerning the International Carriage of Dangerous Goods by

| | |
|---|---|
| | Road |
| ATE | Acute toxicity estimate |
| AU OEL | Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment) |
| CAS-Nr. | Chemical Abstracts Service number |
| CEILING | Ceiling Limit Value |
| Conc. | Concentration |
| EC-No. | European community number |
| ECx | Effective concentration to x % |
| EINECS | European inventory of existing commercial substances |
| ELINCS | European list of notified chemical substances |
| EN | European Standard |
| EU | European Union |
| IATA | International Air Transport Association |
| IBC | International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) |
| ICx | Inhibition concentration to x % |
| IMDG | International Maritime Dangerous Goods |
| LCx | Lethal concentration to x % |
| LDx | Lethal dose to x % |
| LOEC/LOEL | Lowest observed effect concentration/level |
| MARPOL | MARPOL: International Convention for the prevention of marine pollution from ships |
| N.O.S. | Not otherwise specified |
| NOEC/NOEL | No observed effect concentration/level |
| OECD | Organization for Economic Co-operation and Development |
| OES BCS | OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard" |
| PEAK | PEAK: Exposure Standard - Peak means a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes. |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SK-SEN | Skin sensitiser |
| SKIN_DES | SKIN_DES: Skin notation: Absorption through the skin may be a significant source of exposure. |
| STEL | STEL: Exposure standard - short term exposure limit (STEL): A 15 minute TWA exposure which should not be exceeded at any time during a working day even if the eight-hour TWA average is within the TWA exposure standard. Exposures at the STEL should not be longer than 15 minutes and should not be repeated more than four times per day. There should be at least 60 minutes between successive exposures at the STEL. |
| TWA | TWA: Exposure standard - time-weighted average (TWA): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day working week. |
| TWA | Time weighted average |
| UN | United Nations |
| WHO | World health organisation |

This SDS 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 SDS 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.

| |
|---|
| Changes since the last version are highlighted in the margin. This version replaces all previous versions. |