SAFETY DATA SHEET - SDS

Product Name: GREENZONE® Termite and Insect Repellent Barrier

SECTION 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name:	**Greenzone Termite and Insect Repellent Barrier**
Recommended use:	Termite and insect barrier for pre-construction use in residential and commercial construction applications
Company:	Green Zone Pty Ltd 24c, 479 Warrigal Road, Moorabbin Victoria 3189, Australia
Telephone:	(03) 9555 7876
Website:	www.greenzonebarrier.com
Emergency telephone no.:	(03) 9555 7876

SECTION 2. HAZARDS IDENTIFICATION

Not classified as hazardous according to criteria of Safe Work Australia.#

Not classified as a Dangerous Good according to the ADG Code.

Under Safe Work Australia this product is not classified as a hazardous substance. Under the Globally Harmonised System (GHS) this product is a hazardous substance with the following environmental classification:

Globally Harmonised System (GHS) Classification:

Hazardous to the Aquatic Environment – Acute Hazard: Category 1.

Hazardous to the Aquatic Environment – Long term hazard: Category 4.

Signal Word: WARNING.

Hazard Statements:

H400 Very toxic to aquatic life.

H413 May cause long lasting harmful effects to aquatic life.

Precautionary statements:

Prevention:

P273 Avoid release to the environment.

Response:

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container in accordance with national regulations.

Pictogram:



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Name:	*CAS-No.:*	*Proportion:*
Bifenthrin	82657-04-3	2 g/kg
Other ingredients (non-hazardous)	various	balance

SECTION 4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Ph: 13 11 26), and follow the advice given. Show this Safety Data Sheet to the doctor.

Inhalation:	Move to fresh air. If breathing discomfort occurs, obtain medical attention.
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 doctor.
Eye contact:	In case of eye contact, remove contact lens (if applicable) and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Ingestion:	If poisoning occurs, immediately contact a doctor or Poisons Information Centre (Phone 13 11 26).

Notes to Doctor

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, dizziness, blurred vision, headache, anorexia, somnolence, coma, convulsions, tremors, prostration, airway hyperreaction, pulmonary oedema, palpitation, muscular fasciculation, apathy.
Risks:	This product contains a pyrethroid.
	Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.
Treatment:	Local treatment: Initial treatment: Symptomatic.
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.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which shall not be used for safety reasons

High volume water jet.

Hazards from combustion products

Dangerous gases are evolved in the event of a fire.

Precautions for fire-fighting

In the event of fire, wear self-contained breathing apparatus.

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

Hazchem Code 2Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid contact with spilled product or contaminated surfaces.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

Collect and transfer the product into a properly labelled and tightly closed container.

Additional advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Check also for any local site procedures.

SECTION 7. HANDLING AND STORAGE

Handling

Hygiene measures:

When using, do not eat, drink or smoke.

Wash hands immediately after work, if necessary take a shower.

Advice on protection against fire and explosion:

No special precautions required.

Storage

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 feeding stuffs.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

Components	*CAS-No.*	*Control parameters*	*Update*	*Basis*
Bifenthrin	82657-04-3	None established	12 2011	AU OEL

For further details on the Occupational Exposure Standards, see Section 16.

Personal protective equipment – End user

General advice: No special protective equipment required.

Engineering controls

Advice on safe handling: No specific precautions required when handling unopened packs/containers.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form:	Sheets and strips of foam
Colour:	In white, green, blue, orange, black colours
Odour:	None

Safety data

pH:	No data available
Flash point:	No data available
Ignition temperature:	No data available
Upper explosion limit:	No data available
Lower explosion limit:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	0.32 kg/m_2
Water solubility:	No data available
Partition coefficient noctanol/water:	No data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Hazardous reactions:	No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Potential health effects

Inhalation:	Inhalation not likely. May cause irritation of the mucous membranes.
Skin:	May cause irritation.
Eye:	May cause irritation.
Ingestion:	Ingestion of the product is unlikely.

Animal toxicity studies

Acute oral toxicity:	LD_{50} (female rat) 54 mg/kg LD_{50} (male rat) 70 mg/kg The value mentioned relates to the active ingredient bifenthrin.
Acute dermal toxicity:	LD_{50} (rat) > 2,000 mg/kg The value mentioned relates to the active ingredient bifenthrin.
Acute inhalation toxicity:	LD_{50} (rat) 0.6 mg/L air (6 h) The value mentioned relates to the active ingredient bifenthrin.
Skin irritation:	No skin irritation (rabbit). The value mentioned relates to the active ingredient bifenthrin.

Eye irritation:	Slight irritant effect (rabbit). The value mentioned relates to the active ingredient bifenthrin.
Sensitisation:	Non-sensitizing (guinea pig). The value mentioned relates to the active ingredient bifenthrin.

Further information

Bifenthrin is not teratogenic. Bifenthrin may be mutagenic. Bifenthrin is a possible human carcinogen.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish:	LC_{50} (*Oncorhynchus mykiss* (Rainbow trout)) 0.00015 mg/L Exposure time: 96 h The value mentioned relates to the active ingredient bifenthrin.
Toxicity to aquatic invertebrates:	EC_{50} (Water flea (*Daphnia magna*)) 0.00016 mg/L Exposure time: 48 h The value mentioned relates to the active ingredient bifenthrin.
Toxicity to birds:	LD_{50} (Mallard duck) 2,150 mg/kg Exposure time: 96 h The value mentioned relates to the active ingredient bifenthrin.
Bioaccumulation:	Bifenthrin may bioaccumulate in birds.

Environmental fate, persistence and degradation

Bifenthrin has a low mobility in soil. Bifenthrin is relatively insoluble in water and risk of groundwater contamination is therefore low. The half-life of bifenthrin in soil varies from 7 days to 8 months.

SECTION 13. DISPOSAL CONSIDERATIONS

It is recommended to dispose of this product through its intended use. Alternatively off cuts should be disposed of at an approved waste disposal facility.

SECTION 14. TRANSPORT INFORMATION

ADG

UN-Number:	**3077**
Class:	9
Subsidiary Risk:	None
Packaging group:	III
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIFENTHRIN MIXTURE)
Hazchem Code:	2Z

According to AU01, Environmentally Hazardous Substances in packaging's, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

IMDG

UN-Number:	**3077**
Class:	9
Subsidiary Risk:	None
Packaging group:	III

EmS:	F-A, S-F
Marine pollutant:	YES
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIFENTHRIN MIXTURE)

IATA

UN-Number:	**3077**
Class:	9
Subsidiary Risk:	None
Packaging group:	III
Environm. Hazardous Mark:	YES
Description of the goods:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (BIFENTHRIN MIXTURE)

SECTION 15. REGULATORY INFORMATION

Not classified as a hazardous substance according to criteria of Safe Work Australia.
Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is not a scheduled poison.
This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 82746/106642.
Product is not classified as a Dangerous Good according to the ADG Code (7th Ed), the International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).
Requirements concerning special training:
Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

SECTION 16. OTHER INFORMATION

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.

Further details on the Occupational Exposure Standards mentioned in Section 8:

CEILING:	Ceiling Limit Value
OES BCS:	Internal Bayer CropScience "Occupational Exposure Standard"
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.
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.

SKIN_DES: Skin notation:	Absorption through the skin may be a significant source of exposure.
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.

Changes/Revisions:	This version [insert SDS version] is the first edition and therefor no changes have been made to earlier versions.

END OF SDS