

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**PRODUCT NAME:** PROTECTANT™ TERMITE BARRIER  
**OTHER NAMES:**  
**RECOMMENDED USE:** A physical barrier against concealed subterranean termite entry when used with concrete slab-on-ground and cavity brickwork and suspended timber floors.

**SUPPLIER NAME:** The White Ant Co Pty Ltd  
**ADDRESS:** Unit 2, 57-61 Burchill Street  
LOGANHOLME, QLD, 4129.

**TELEPHONE NUMBER:** 07 3806 1402 (B.H.)

**EMERGENCY TELEPHONE NUMBER:** 1300 552 532 / 0406 429 436 (After Hours)

## SECTION 2 – HAZARDS IDENTIFICATION

**Statement of Hazardous Nature of Product:** This product is classified as non-Hazardous according to criteria of the Australian Safety and Compensation Council (National Occupational Health and Safety Commission). It is not dangerous good according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** Not Applicable.

**Safety Phrases:** Not Applicable.

**UN NUMBER:** Not Applicable.

**PROPER SHIPPING NAME:** Not Applicable.

**HAZCHEM CODE:** Not Applicable.

**DANGEROUS GOODS**

**CLASS/SUBSIDIARY RISK:** Not Applicable.

**POISONS SCHEDULE NUMBER:** Schedule 6.

## SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	PROPORTION WT/WT
Bifenthrin	82657-04-3	5.2 g/kg

## SECTION 4 – FIRST AID MEASURES

**INGESTION:** If the product has been ingested, make sure that it does not create a choking hazard or cause internal physical damage. There is no need to induce vomiting. If poisoning occurs, contact a doctor or the Poisons Information Centre (Phone 131 126).

**EYE:** Any exposure will be secondary in nature. If this secondary exposure causes irritation, check for and remove any contact lenses. Hold the eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. If irritation persists seek medical attention taking this MSDS with you.

**SKIN CONTACT:** If skin contact causes irritation, wash skin thoroughly with soap and water. If irritation persists, consult a doctor.

**INHALATION:** Inhalation of the product should not be possible.

**FIRST AID FACILITIES:** Eye wash fountain and running water are recommended.

**ADVICE TO DOCTOR:** Treat symptomatically.

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## SECTION 5 – FIRE FIGHTING MEASURES

<b>FIRE:</b>	Not flammable under conditions of use, however may decompose and/or burn in a fire.
<b>EXPLOSION:</b>	No information to indicate that the product is an explosion hazard.
<b>FIRE EXTINGUISHING MEDIA:</b>	Use extinguishing media appropriate for surrounding fire. Use foam, dry chemical or carbon dioxide for fires. Water may be used to keep adjacent containers cool.
<b>COMBUSTION HAZARDS:</b>	Combustion may produce irritating or toxic substances such as oxides of carbon as well as trace chlorine and fluorine components. Avoid breathing vapours.
<b>PROTECTIVE EQUIPMENT:</b>	In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PROTECTION:</b>	As a precaution, wear gloves, glasses, boots and full-length clothing. Wash any area where skin contact has occurred with soap and water.
<b>EMERGENCY PROCEDURES:</b>	Pick up the spilled product. Due to the nature of the product most spilled sheeting can be re-used. Where this is not possible, place material in suitable sealed containers and follow local and state regulations for disposal of solid waste in a Government approved industrial waste disposal facility. Do not allow product to enter drains, sewers or water courses – inform local authorities if this occurs.
<b>CLEANING PROCEDURES:</b>	Collect all material quickly as mentioned above. Personnel should use the protective clothing mentioned above during cleaning procedures.

## SECTION 7 – HANDLING AND STORAGE

<b>PRECAUTIONS FOR SAFE HANDLING:</b>	As a precaution, avoid contact with the product by using appropriate protective equipment such as gloves and full-length clothing. Workers should follow good personal hygiene practices including washing hands after use and before eating, drinking and smoking. Keep containers tightly closed when not in use. Any unused material waste, including packaging, must be placed in suitable sealed containers and disposed of according to local and state regulations for disposal of solid waste in a Government approved industrial waste disposal facility.
<b>CONDITIONS FOR SAFE STORAGE:</b>	Keep out of reach of children. Store in a cool, well-ventilated area away from high temperatures and avoid direct sunlight. Do not store with clothing or foodstuffs. Keep containers closed when not in use. Waste materials must be stored under the same conditions until disposed of.
<b>INCOMPATIBILITIES:</b>	No known incompatibilities.

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## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>AIRBORNE EXPOSURE LIMITS:</b>	Exposure limits have not been established for this product.
<b>VENTILATION SYSTEMS:</b>	Local ventilation is recommended during usage.
<b>PERSONAL RESPIRATORS:</b>	During routine operation a respirator is not required.
<b>GLOVE TYPE:</b>	It is recommended that general purpose rubber gloves are used to avoid skin contact. However, if one of the Protectant™ Termite Barrier System bifenthrin containing adhesives is to be used, the appropriate glove as recommended in the adhesive MSDS is to be used.
<b>CLOTHING:</b>	During normal operating procedures, full length clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.
<b>EYE PROTECTION:</b>	As a precaution it is recommended to wear safety glasses to avoid secondary eye contact when handling the material.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE:</b>	Red sheeting of varying widths.
<b>ODOUR:</b>	When first opened a hydrocarbon solvent odour which decreases with time.
<b>VAPOUR DENSITY:</b>	Not applicable.
<b>VAPOUR PRESSURE (mmHg):</b>	Not applicable.
<b>VISCOSITY:</b>	Not applicable.
<b>FLASHPOINT (°C):</b>	Not applicable.
<b>FLAMMABILITY LIMITS (%):</b>	Not applicable.
<b>SOLUBILITY IN WATER(g/L):</b>	Not miscible in water.
<b>BOILING RANGE (°C):</b>	Not applicable.
<b>% VOLATILE-WT/WT:</b>	Not applicable.
<b>EVAPORATION RATE:</b>	Not applicable.
<b>pH:</b>	Not applicable.

## SECTION 10 – STABILITY AND REACTIVITY

<b>CHEMICAL STABILITY:</b>	Stable under ordinary conditions of use and storage.
<b>CONDITIONS TO AVOID:</b>	No reported conditions to avoid.
<b>INCOMPATIBLES:</b>	No reported incompatibilities.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Combustion may produce irritating or toxic substances such as oxides of carbon as well as trace chlorine and fluorine products.
<b>HAZARDOUS REACTIONS:</b>	Hazardous polymerisation will not occur. No reported hazardous reactions.

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## SECTION 11 – TOXICOLOGICAL INFORMATION

### HEALTH EFFECTS

#### *ACUTE*

**SWALLOWED:** The product is rated as a Schedule 6 Poison, however it is expected to have a low order of toxicity associated with it when ingested as the active constituent, bifenthrin is bound within the sheeting. Ingestion may present a choking hazard or cause internal physical damage. During normal usage ingestion should not be a means of exposure.

**EYE:** Bifenthrin is virtually non-irritating to the eyes in rabbit studies. As the active constituent, bifenthrin, is physically bound within the sheeting it is not expected that the material will be irritating to the eye. Any contact with the eyes would be by secondary contact of residues on the hands. Therefore washing the hands after use is important.

**SKIN:** Due to the nature of the product, it is not expected to be irritating to the skin. Correct handling and personal hygiene procedures, such as washing your hands after use, should minimise the risk of any potential irritation.

**INHALED:** No data to indicate a toxic inhalation hazard during normal conditions of usage. During normal usage inhalation should not be a means of exposure.

**CHRONIC** No reported chronic effects.

**TOXICITY DATA:** There is no data available for the product as a whole. The following data is in respect to the bifenthrin component. Please note that bifenthrin is only present at the level of approximately 5.2 g/kg and is physically bound in the product.

**Irritation Data:** Studies have shown that though bifenthrin does not cause inflammation or irritation on human skin, it may cause a numbness or tingling sensation which may last for up to approximately 12 hours in its pure form. In tests on rabbits, bifenthrin was virtually non-irritating to the eyes.

**Toxicity Data:** The oral LD50 (rats): 54.5 mg/kg and the dermal LD50 (rabbits): > 2000 mg/kg.

**Immunotoxicity Data:** No data available.

**Skin Sensitisation Data:** Non-sensitising in animal tests.

**Respiratory Sensitisation:** No data available.

**Mutagenic effects:** In five studies conducted for gene mutation one was positive and the rest were negative.

**Teratogenicity/**

**Embryotoxicity:** No data available.

**Reproductive effects:** In a two generation feeding study in rats, the no observed effect level for reproductive toxicity was > 100ppm.

**Carcinogenicity:** In studies on rats there was no evidence of carcinogenicity at levels of up to 200ppm. In a study of up to 92 weeks duration on mice, there was an increase in the number of bladder tumours at the highest dose rate of 600ppm in feed.

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## SECTION 12 – ECOLOGICAL DATA

There is no data available for the product as a whole. The following data is in respect to the bifenthrin component. Please note that bifenthrin is only present at the level of approximately 5.2 g/kg and is physically bound in the product.

**ECOTOXICITY:** Bifenthrin is highly toxic to fish, crustaceans and aquatic animals. The LC50 (96 hour) Rainbow Trout: 0.15 µg/L; LC50 (96 hour) Bluegill: 0.35 µg/L; and, LC50 (96 hour) Daphnia: 1.6 µg/L. Bifenthrin is stated to be moderately toxic to birds. The LC50 (8 day dietary concentration) Mallard Duck: 1,280 ppm and for Bobwhite quail is 4,450 ppm. The Acute Oral LD50 (Bobwhite quail): 1,800 mg/kg and Acute Oral LD50 (Mallard Duck): 2,150 mg/kg. Bifenthrin is also toxic to bees. It is not expected that free bifenthrin would be available from the product.

**PERSISTENCE & DEGRADABILITY:** Bifenthrin remains unchanged in the soil for varying lengths of time, depending upon soil composition and organic matter content. Degradation is dependent upon oxidative microbial activity on soil-bound bifenthrin. Depending upon conditions, the half-life of bifenthrin can vary from 7 days to 8 months.

**MOBILITY:** Bifenthrin is immobile in soil containing large amounts of organic matter, clay and silt. Mobility is low in soils with low exchange capacity, such as sandy soil that does not contain much organic matter. Bifenthrin tightly binds to soil soon after application.

**ENVIRONMENTAL FATE:** As stated, bifenthrin binds tightly to most soil types. Its solubility in water is very low and the potential for leaching into ground-water is low. In surface waters, bifenthrin may persist in water and on soil and organic matter found in the water. Bifenthrin is not toxic to most plants.

**BIOACCUMULATIVE POTENTIAL:** There is no bioaccumulative potential information available.

## SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS/ CONTAINERS:** Due to the nature of the product there should be little waste material. Any off-cuts can be incorporated into the barrier system during application or be used during repair applications. Where this is not possible, place unused material in suitable sealed containers and follow local and state regulations for disposal of solid waste in a Government approved industrial waste disposal facility. The same disposal procedures should be used for product packaging. Do not allow product to enter drains, sewers or water courses – inform local authorities if this occurs.

## SECTION 14 – TRANSPORT INFORMATION

**UN NUMBER:** Not applicable.  
**PROPER SHIPPING NAME:** Not applicable.  
**ADG CODE:** Not applicable.  
**PACKAGING GROUP:** Not applicable.  
**SPECIAL PROVISION:** Not applicable.  
**HAZCHEM CODE:** Not applicable.

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## SECTION 15 – REGULATORY INFORMATION

**Statement of Hazardous Nature of Product:** This product is classified as non-Hazardous according to criteria of the Australian Safety and Compensation Council (National Occupational Health and Safety Commission). It is not a dangerous good according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** Not Applicable.

**Safety Phrases:** Not Applicable.

No additional regulatory information is available.

## SECTION 16 – OTHER INFORMATION

**Date of MSDS Preparation:** 29 May 2018

**Revision:** 3

### ACRONYMS

<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs and Poisons
<b>ADG Code</b>	Australian Code for the Transport of Dangerous Goods by Road and Rail
<b>CAS Number</b>	Chemical Abstracts Service Registry Number
<b>UN Number</b>	United Nations Number
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>R-Phrase</b>	Risk Phrases
<b>S-Phrase</b>	Safety Phrases
<b>HAZCHEM No</b>	An emergency action code of numbers and letters which gives information to emergency services
<b>ASCC</b>	Australian Safety and Compensation Council (Formerly NOHSC)
<b>NOHSC</b>	National Occupational Health and Safety Commission
<b>OSHA</b>	Occupational Health and Safety Administration
<b>PEL</b>	Permissible Exposure Limit
<b>TLV</b>	Threshold Limit Value
<b>AICS</b>	Australian Inventory of Chemical Substances
<b>IARC</b>	International Agency for Research on Cancer

## CONTACT POINT

**NAME:** Glenn Kuehnappel  
**TITLE:** General Manager  
**TELEPHONE NUMBER:** 1300 552 532 / 0406 429 436 (After Hours)

All information contained in this Material Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.