SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **TERM-seal Multipurpose Active TERMITE AND WATERPROOF BARRIER**

Other Names: Bifenthrin. TERM-seal Multipurpose.
Use: For the protection of buildings and other structures from concealed entry by termites.
Company: TERM-seal (Aust) Pty Ltd.
Address: 8 Trade Cct, Wauchope, NSW, 2446
Telephone Number: 02 6581 4414
Emergency Telephone Number: 13 11 26 (All hours - Australia wide).

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	*CAS NUMBER*	*PROPORTION*
Bifenthrin	82657-04-3	0.65 g/L
Other ingredients determined not to be hazardous	mixture	Balance

SECTION 4 FIRST AID MEASURES

FIRST AID

Swallowed: If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. Rinse mouth with water and give plenty of water to drink.

Eye: Immediately hold eyes open and flood with copious quantities of clean water until chemical is removed. If irritation persists, obtain medical attention.

Skin: Immediately wipe excess material from skin with a clean rag or paper towel. Do NOT use a solvent to clean skin. Wash area with soap and water.

Inhaled: In case of adverse exposure to vapours, remove patient to fresh air. If breathing discomfort occurs, obtain medical attention.

Advice to Doctors: Bifenthrin, the active ingredient in this product, is a pyrethroid insecticide. The level of bifenthrin is considered to be so low as to be considered non-toxic (0.065%). Treatment is otherwise symptomatic and supportive.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Not flammable, however thermal decomposition may produce toxic by-products.

Extinguishing media: Choose extinguishing media to suit the burning material. Contain all runoff.

Hazards from combustion products: If involved in a fire will emit toxic fumes, including carbon monoxide.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: SMALL SPILLS: Wipe up with rag or absorbent paper. LARGE SPILLS: Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length chemical resistant gloves, face shield or goggles to prevent skin and eye contact. Contain spill to prevent contamination of drains and waterways. Isolate any leaking containers and transfer contents to alternative suitable containers. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Do not flush spilt material into natural waterways or sewage systems.

In the event that there is surplus liquid to be disposed of, the material can be coated on top of the perimeter barrier. If this is not possible, coat the material onto a sheet of plastic or other waste material and allow to cure. Place the cured material in a sealed plastic bag and dispose of at an approved industrial waste site.

Material and methods for containment and cleanup procedures:
Cured material can only be removed by cutting or abrasion. Equipment can be cleaned with water DO NOT allow product to enter sewers, drains, dams, creeks or any other waterways.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling:

Brush on/Roller application: Harmful if absorbed by skin contact, inhaled or swallowed. May irritate the eyes, nose and throat and skin. Avoid contact with eyes and skin.

Spray on Application (where applicable): Do not inhale spray mist or vapour. When using the product, wear overalls (or equivalent clothing), elbow-length chemical resistant gloves, face shield or goggles and respirator.
If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves, goggles or safety glasses, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

Conditions for Safe Storage: Store in closed original packaging, in a cool well-ventilated area away from children, animals, food and feedstuffs. DO NOT store for long periods in direct sunlight. DO NOT allow product to enter sewers, gutters or storm water drains, creeks or any other waterways. Use within 12 months of opening.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:
No exposure standard for bifenthrin, or this product, has been established by Safe Work Australia.

Biological Limit Values:
No biological limit allocated.

Engineering controls:
Natural ventilation is adequate under normal conditions of use. Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment (PPE):
Brush/Roller Application: When using the product, wear overalls (or equivalent clothing), Safety glasses and impervious gloves. Available information suggests that gloves made from nitrile rubber should be suitable for intermittent contact. However, due to the variations in glove construction and local conditions, the user should make a final assessment.

Spray on Application: When using the prepared spray, wear overalls (or equivalent clothing), elbow-length chemical resistant gloves, goggles or safety glasses and a respirator.

If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use wash gloves, goggles or safety glasses, respirator and if rubber wash with detergent and warm water, and contaminated clothing.

Personal Hygiene: Harmful if absorbed by skin contact, inhaled or swallowed. May irritate the eyes, nose and throat and skin. Avoid contact with eyes and skin. Do not inhale spray mist or vapour. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Viscous grey liquid.
Odour:	Characteristic.
Boiling point:	> 100°C.
Freezing point:	No data available.
Specific Gravity:	Approximately 1.2 to 1.3.
pH:	No data available.
Solubility in Water:	Disperses in water.
Flammability:	Not flammable.
Corrosive hazard:	Non corrosive.
Flashpoint (°C):	Not flammable.
Flammability Limits (%):	Not established.

Poisons Schedule: Product is not a scheduled poison.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable in ambient conditions. Use within 1 year after manufacture.

Conditions to avoid: Keep away from all sources of heat. Keep out of the sun.

Incompatible materials: No particular materials to avoid

Hazardous decomposition products: On burning will emit toxic fumes.

Hazardous reactions: No particular reactions to avoid.

SECTION 11 TOXICOLOGICAL INFORMATION

Potential Health Effects:
This product is expected to have low toxicity, and if swallowed the mechanical effects are expected to be of greater concern. Bifenthrin, the active ingredient in this product is present at 0.1%. Ingestion of large doses of bifenthrin by laboratory animals produced signs of toxicity which included clonic convulsions, tremors and bloody nasal discharge. But it is not likely to be physically possible to consume large quantities of bifenthrin by ingesting the plastic granules.

Acute

Swallowed: Not expected to be toxic. May cause nausea and vomiting if swallowed in large amounts.

Eye: May produce irritation to the eye.

Skin: May cause irritation in some sensitive individuals with repeated or prolonged contact.

Inhaled: Unlikely to cause inhalation toxicity unless the product is at elevated temperatures.

Chronic: No data available on this formulation. In studies with laboratory animals, Bifenthrin Technical did not cause teratogenicity or reproductive toxicity. Tremors were associated with repeated exposure of dogs, rats, rabbits and mice to Bifenthrin. The overall results from a battery of genotoxicity studies indicate that Bifenthrin is not considered to be genotoxic. Ames test results were negative. (Bifenthrin is only 0.065% of this product).

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: The active ingredient, Bifenthrin, is highly toxic to fish and aquatic arthropods with LC_{50} values ranging from 0.0038 µg/L to 17.8 µg/L. In general, the aquatic arthropods are the most sensitive species. Care should be taken to avoid contamination of the aquatic environment. Bifenthrin had no effect on molluscs at its limit of water solubility. Bifenthrin is only slightly toxic to both waterfowl and upland game birds with LC_{50} values range from 1800 mg/kg to > 2,150 mg/kg. Do not contaminate sewers, drains, dams, creeks or any other waterways with product or the used container. Do not use this product as a liner for fish ponds.

Environmental Properties: The active ingredient, Bifenthrin, degrades at a moderate rate in agricultural soils (t½ = 50 to 205 days), and more rapidly on the surface of bare soils (t½ = 7 to 62 days). Bifenthrin is tightly bound in most soils and has extremely low water solubility.

SECTION 13 DISPOSAL CONSIDERATIONS

Spills & Disposal: Store in closed original packaging, in a cool well-ventilated area away from children, animals, food and feedstuffs. DO NOT store for long periods in direct sunlight. DO NOT allow product to enter sewers, gutters or storm water drains, creeks or any other waterways. Use within 12 months of opening.

In the event that there is surplus liquid to be disposed of, the material can be coated on top of the perimeter barrier. If this is not possible, coat the material onto a sheet of plastic or other waste material and allow to cure. Place the cured material in a sealed plastic bag and dispose of via an approved industrial waste disposal site in accordance with the requirements of Local or State Waste Management Authorities.

Dangerous to Fish: Do NOT allow product to enter sewers, drains, dams, creeks or any other waterways.

SECTION 14 TRANSPORT INFORMATION

Transport: TERMseal Multipurpose Active is not classified as a Dangerous Good.
It is good practice not to transport this product with food, food related materials and animal feedstuffs.

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. 62740/43873.
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

Issue Date: 7th February 2024. Valid for 5 years till 7th February 2024. (Revised to GHS).

Key to abbreviations and acronyms used in this SDS:

ADG Code:	Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).
Carcinogen:	An agent which is responsible for the formation of a cancer.
Clonic:	Alternate involuntary muscular contraction and relaxation in rapid succession.
Genotoxic:	Capable of causing damage to genetic material, such as DNA.
Lavage:	The irrigation or washing out of an organ, as of the stomach or bowel.
Mutagen:	An agent capable of producing a mutation.
Oedema:	Accumulation of fluid in tissues.
Teratogen:	An agent capable of causing abnormalities in a developing foetus.
Safe Work Australia:	Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. “Search Hazardous Substances”. Safe Work Australia website. (2016).
2. “Approved Criteria for Classifying Hazardous Substances” 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

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.

End SDS