SAFETY DATA SHEET

Date of Issue: July 2020
SDS No. FMC/HGTMB/1

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **HOMEGUARD®**
TERMITE MOISTURE BARRIER

Other Names: HomeGuard® TMB. HomeGuard Perimeter Barrier. Bifenthrin.
Use: Termite and moisture barrier for pre-construction use in buildings and other structures.
Company: FMC Australasia Pty Ltd.
Address: 12 Julius Avenue, North Ryde NSW 2113
Telephone Number: 02 9887 0900 **Fax Number:** 02 9887 0911
Emergency Telephone Number: 1800 033 111 (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	1 g/kg
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.

Eye: Particulates may scratch eye surfaces and/or cause mechanical irritation. Remove from eye as for any foreign object. If irritation persists, obtain medical attention.

Skin: After handling, and before eating, drinking, smoking or going to the toilet wash with soap and water.

Inhaled: In case of adverse exposure to vapours that may be formed at elevated temperatures, remove patient to fresh air. If breathing discomfort occurs, obtain medical attention.

Advice to Doctors: Concern should be taken of the physical damage that the sheeting may cause if ingested. The plastic sheeting is polyethylene which is considered non-toxic. Bifenthrin, the active ingredient in this product, is a pyrethroid insecticide. The level of bifenthrin in the sheeting (0.1%) is considered to be so low as to be considered non-toxic, and tests have shown that the bifenthrin is not readily available for release from the sheeting. Treatment is otherwise symptomatic and supportive.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Thermal decomposition and burning may produce toxic by-products.

Extinguishing media: Foam, CO_2 or dry chemical. Soft stream water fog if no alternatives. Contain all runoff.

Hazards from combustion products: On burning will emit toxic fumes of carbon monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride etc.

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: Pick up unused sheeting. If unable to use as directed on the label, seal sheeting in a plastic bag and dispose of as per section 13. For good industrial hygiene, wash hands and arms with soap and water after handling sheeting.

Material and methods for containment and cleanup procedures: Not applicable to this product.
DO NOT allow product to enter sewers, drains, dams, creeks or any other waterways.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling: Generally no special precautions are required. Wash hands after use.

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 prolonged periods in direct sunlight. Do not use or store near heat, open flame or hot surfaces. Do NOT allow product to enter sewers, drains, creeks or any other waterways. Do not use as a liner for any type of water pond.

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:
Use in well ventilated areas.

Personal Protective Equipment (PPE):
General: No special protective clothing is required. As a good work practice, wear clothing that minimises skin contact with this sheeting.

Personal Hygiene: Wash hands and arms before eating, drinking or smoking.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Plastic sheeting in white, red, blue or gold colours.
Odour:	No odour.
Boiling point:	Not relevant - solid at ambient temperatures.
Freezing point:	Not relevant - solid at ambient temperatures.
Specific Gravity:	Approximately 0.9 g/m³.
pH:	Not available.
Solubility in Water:	Not soluble. Provides a barrier to water.
Flammability:	This material may support combustion at elevated temperatures.
Corrosive hazard:	Non corrosive; compatible with stainless steel, polyethylene etc.
Flashpoint (°C):	Not applicable.
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 for a period of at least 2 years 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 sheet.

Acute

Swallowed:	Not expected to be toxic.
Eye:	May produce mechanical irritation to the eye.
Skin:	This product has very low dermal toxicity.
Inhaled:	Unlikely to cause inhalation toxicity unless the product is at elevated temperatures or is burned. Vapours and gases released under thermal decomposition may be toxic.

SECTION 11 TOXICOLOGICAL INFORMATION (Continued)

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.

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: In the case of unusable material, place material in sealed plastic bags and dispose of waste in accordance with the requirements of Local or State Waste Management Authorities via an approved industrial waste disposal site. Keep material out of streams and sewers.

When installing HomeGuard TMB it is likely there will be some off-cut material. Wherever possible use these off-cuts for patches, repairs, collars etc. If pieces cannot be used they may be placed under the slab prior to pouring or within the cavity. If this is not possible, HomeGuard TMB off-cuts should be placed in a sealed plastic bag and disposed 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

HomeGuard TMB is not classified as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

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. 60989.
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: 23 July 2020. Valid for 5 years.

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. (2015).
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