

MATERIAL SAFETY DATA SHEET

PLASMITE™ TERMITICIDE & INSECTICIDE

This product is Harmful if Swallowed. It is Designated a Hazardous Substance According to the Criteria of the National Occupational Health & Safety Commission

Creepy Crawly Pest Control Pty Ltd
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Product Name:	Plasmite™ Termiticide & Insecticide
Other Names:	Bifenthrin
Formulation Type:	Emulsifiable concentrate
UN No.:	None Allocated
Dangerous Goods Class:	None Allocated
Hazchem Code:	None Allocated
Packing Group:	None Allocated
Poison Schedule:	S6
Use:	Synthetic pyrethroid Termiticide and insecticide

PHYSICAL DESCRIPTION/PROPERTIES:

Appearance:	Light Brown Liquid
Specific Gravity:	About 0.93 Kg/L at 20 Degrees Celsius
Flash Point:	Not Applicable
Flammability Limits:	Not Available
Solubility in Water:	Product emulsifies in water
Corrosive hazard:	Non-corrosive; compatible with aluminium, glass and steel containers.

INGREDIENTS:

Chemical Name:	CAS No.	Proportion
Bifenthrin	82657-04-3	100 g/L
Aromatic Hydrocarbon Solvent	64742-94-5	562 g/L
N-Methyl-2-Pyrrolidone	872-50-4	50 g/L

HEALTH EFFECTS:

Acute if Ingested:	Harmful if Swallowed
Eye:	The material should not be allowed in contact with the eyes. May be moderately irritating to the eyes.
Skin	The material should not be allowed in contact with the skin. Minimally irritating the skin. May cause dermal sensitisation or skin tingling.

Inhalation:

The product may be harmful if inhaled. Avoid breathing vapour/spray/fumes. Inhalation of aromatic hydrocarbon vapours may cause dizziness, disturbances in vision, and irritation to the eyes, skin and mucous membrane of the respiratory or gastrointestinal tract.

Chronic:

No data available on this formulation. In studies with laboratory animals, bifenthrin technical did not cause any teratogenicity or reproductive toxicity. The overall results from a battery of genotoxicity studies indicated that bifenthrin is not genotoxic. Ames test results were negative. Kidney and liver damage is possible from over-exposure to aromatic hydrocarbons over long periods. Some reversible haematopoietic depression has been observed in animals with extended exposure to aromatic hydrocarbons.

FIRST AID

Ingested:

If poisoning occurs, contact a doctor or Poisons Information Centre, PHONE: 13 11 26. If swallowed do not induce vomiting. Give glass of water.

Eye:

Flush eyes with plenty of water for at least 15 minutes. If eye irritation persists seek medical attention.

Skin:

Remove contaminated clothing and wash contact area with flowing water and soap. Launder clothing before use.

Inhaled:

Remove from source of vapour to fresh air. If breathing discomfort occurs contact a medical doctor. If breathing stops then start artificial respiration and seek a doctor.

First Aid Facilities:

Normal workplace facilities and equipment.

Advice to Doctor:

Bifenthrin. The active ingredient in this product is pyrethroid insecticide. The formulation also contains liquid hydrocarbons that can cause severe pneumonitis or fatal pulmonary oedema if aspirated. Consideration should be given to gastric lavage with an endotracheal tube in place. Treatment is otherwise symptomatic and supportive. In cases of skin contact, it has been reported that topical applications of Vitamin E acetate was found to have high therapeutic value, eliminating almost 100% of the skin pain associated with synthetic pyrethroids.

Exposure Standards:	None
Engineering Controls:	Use only in well ventilated areas

HEALTH SURVEILLANCE:

Flammability: Non-flammable

PERSONAL PROTECTION:

Eyes : Eye protection should be worn when splashing is possible. Wear splash proof goggles or a full face shield. Consult AS 1336 and 1337. If product in eyes, wash it out immediately with water.

Clothing: When operating with container and preparing spray wear cotton overalls buttoned to the neck and wrist. Wear a washable hat. Consult AS 2919. If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray gets on skin, immediately wash area with soap and water.

Gloves: Avoid contact with the skin. Wear gauntlet style chemical protective gloves made of rubber or neoprene PVC. Inspect regularly for leaks. Consult AS 2161.

Respiratory: Do not breathe in vapour/spray/fumes. Use an organic-chemical cartridge respirator when working in poorly ventilated areas or where there is potential for spray mist, splashing or vapours. Consult AS 1715.

Other. Do not eat, drink or smoke until after washing. Wash thoroughly after handling. After each day's use wash personal protection equipment, including goggles, gloves, face shield, respirator face piece and contaminated clothing.

Storage and Transport: Store in tightly sealed original containers in a dry, cool, well ventilated, secure area, away from sources of heat or ignition. Store away from fertilisers, seed, feed and food. Keep out of reach of children, unauthorised persons and animals.

Not classified as dangerous goods according to the Australian Code for the Transport of Dangerous Goods by Road or Rail.

Spills and Disposal:

In the case of spillage contain and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Wear prescribed protective clothing and equipment. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution (i.e. Organic solvent, detergent, bleach or caustic) and add the solution to the drums of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accord with Avcare guidelines. Do not discharge into drains. Dispose of empty, used containers by triple rinsing or, preferably pressure rinsing. Add the rinsate to the spray tank or dispose of the rinsate in a disposal pit away from desirable plants and their roots and watercourses. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and stay up for this purposes clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Fire/Explosion Hazard:

DEGREE OF HAZARD - Combustible liquid. Material may support combustion at elevated temperatures. Sealed, overheated containers may present an explosion hazard. Thermal decomposition and burning may produce toxic by-products.

EXTINGUISHING MEDIA - Soft stream water fog, Foam, CO₂ or dry chemical. Contain all runoff.

SPECIAL FIRE FIGHTING PROCEDURES - Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self-contaminated breathing apparatus. Do not breathe or contact smoke gases or vapours generated. Try to keep containers cool with soft stream water fog.

HAZARDOUS DECOMPOSITION PRODUCTS - Carbon Monoxide, carbon dioxide, hydrogen chloride, chlorine, fluorine and hydrogen fluoride.

ENVIRONMENTAL PROPERTIES: Bifenthrin is rapidly degraded in soil with half life of 50 – 205 days. It is rapidly hydrolysed under basic conditions (pH = 9) but, under acidic and neutral conditions, hydrolysis half life can be 20 – 29 days. Bifenthrin has a high affinity for organic matter, yet, because of the ease with which the material undergoes degradation, it has a very low potential for bioaccumulation. It is not mobile in soil and has extremely low water solubility.

ENVIRONMENTAL TOXICOLOGY: Bifenthrin is considered toxic to fish and aquatic arthropods. DO NOT contaminate sewers, drains, dams, creeks or any other waterways with product or the used container.

This product is a registered agricultural chemical with the National Registration Authority, a division of Agriculture, Farming and Fisheries – Australia. A comprehensive package of toxicological and environmental data for the active ingredients is held by the federal health and environmental authorities. This data has been evaluated by expert, independent toxicologists and environmental scientists.

ALWAYS READ THE PRODUCT LABEL BEFORE USE. FOLLOW ALL DIRECTIONS FOR USE, LABEL WARNINGS AND SAFETY DIRECTIONS.

The information above is correct and accurate to the best of our knowledge. However no warranty, expressed or implied is made as to its accuracy or completeness of data herein. Further research and investigation maybe required for your particular use of this product.

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