

**POISON** KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



# Bifenthrin 100 EC Insecticide

**ACTIVE CONSTITUENT: 100g/L BIFENTHRIN**  
**SOLVENT: 50g/L N-METHYL-2-PYRROLIDONE 605g/L HYDROCARBON LIQUID**

**GROUP 3A INSECTICIDE**

For installing chemical soil barriers for new building work in accord with AS 3660.1;  
the post-construction management of subterranean termites in accord with AS 3660.2 and  
the control of a large range of other urban pests, as specified in the Directions For Use Table

**IMPORTANT: RESTRICTED CHEMICAL PRODUCT - ONLY TO  
BE SUPPLIED TO OR USED BY AN AUTHORISED PERSON**

**IMPORTANT: READ THE ATTACHED LEAFLET  
BEFORE OPENING OR USING THIS PRODUCT**

CONTENTS  
**2L**

#### CONDITIONS OF USE BY AUTHORISED PERSONS

The pest manager must be licensed under state legislation. For pre-construction treatments, the pest manager must advise the site supervisor, if any, and any workers who may come into contact with uncovered treated soil prior to laying the moisture membrane, to wear appropriate personal protective equipment and to observe re-entry requirements.  
(For personal protective equipment, refer to "SAFETY DIRECTIONS" section below)  
(For re-entry, refer to "PRECAUTIONS AND RE-ENTRY PERIOD" section below)

#### PRECAUTIONS AND RE-ENTRY PERIOD

DO NOT spray into the air or directly on humans, pets or animals. Avoid contact with food, food utensils or preparation surfaces.

#### RE-ENTRY PERIOD

Pre-Construction: DO NOT allow entry into uncovered treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear. Clothing must be laundered after each day's use.  
Post Construction And Urban Pest Management: DO NOT allow people or pets to contact treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear. Clothing must be laundered after each day's use.

#### STORAGE, SPILLAGE AND DISPOSAL KEEP OUT OF REACH OF CHILDREN

Store in the closed, original container in a cool, well ventilated area away from children, animals, food and feedstuffs. DO NOT store for prolonged periods in direct sunlight. In case of spillage, confine and absorb spilled product with absorbent material such as sand, clay or cat litter. Dispose of waste as indicated below or according to the Australian Standard AS 2507 - Storage and Handling of Pesticides. DO NOT allow spilled product to enter sewers, drains, creeks or any other waterways. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycled, break, crush, or puncture and deliver empty containers for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty containers 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory Government Regulations. DO NOT burn empty containers or product. DO NOT bury waste or surplus product. Dispose of undiluted waste either by dilution and use according to the Directions For Use Table or returning to the point of purchase in the original container for controlled disposal. Dispose of diluted surplus product by using according to the Directions For Use Table. DO NOT re-use empty containers.

#### SAFETY DIRECTIONS

Poisonous if swallowed. Will damage eyes and will irritate the skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist.  
When opening the container and preparing spray, wear cotton overalls

buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves, face shield or goggles and chemical resistant footwear.  
When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear.

When using in enclosed areas, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves, chemical resistant footwear and half face piece respirator with combined dust and gas cartridge.

If clothing becomes contaminated with product or wet with spray, remove clothing immediately.

If product or spray on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash gloves, face shield or goggles, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

#### FIRST AID

If poisoning occurs contact a Doctor or phone the Australian Poisons Information Centre 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes wash out immediately with water.

#### MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) that can be obtained from the supplier.

#### CONDITIONS OF SALE

The use of this product is beyond the control of the manufacturer. No warranty expressed or implied is given by Wellfarm Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Wellfarm Pty Ltd accepts NO responsibility for any consequences whatsoever resulting from the use of this product.

#### MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY

Wellfarm Pty Ltd has no control over storage, handling and manner of use of this product. Where the material is not stored, handled or used correctly and in accordance with the directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Wellfarm Pty Ltd accepts NO liability for any losses or damages arising from incorrectly storage, handling or use.

**APVMA Approval No 70288/62938**

**IN AN EMERGENCY  
DIAL 000 POLICE OR FIRE BRIGADE**



Wellfarm Pty Ltd  
ACN 158 518 551  
ABN 32 158 518 551  
22 Calypso Crescent  
Point Cook Vic 3030  
www.wellfarm.com.au



Batch No

DOM

# POISON

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in accord with AS 3660.1; the post-construction  
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**CONTENTS: 2L  
(5L, 10L, 20L, 50L)**

APVMA Approval No 70288/62938

Wellfarm Pty Ltd  
ACN 158 518 551  
22 Calypso Crescent  
Point Cook Vic 3030  
[www.wellfarm.com.au](http://www.wellfarm.com.au)



## CONDITIONS OF USE BY AUTHORISED PERSONS

The pest manager must be licensed under state legislation. For pre-construction treatments, the pest manager must advise the site supervisor, if any, and any workers who may come into contact with uncovered treated soil prior to laying the moisture membrane, to wear appropriate personal protective equipment and to observe re-entry requirements.

(For personal protective equipment, refer to "SAFETY DIRECTIONS" section below)

(For re-entry, refer to "PRECAUTIONS AND RE-ENTRY PERIOD" section below)

## GENERAL INSTRUCTIONS

**URBAN PEST MANAGEMENT:** Wellfarm Bifenthrin 100 EC Insecticide is a powerful knockdown and residual control agent. Ants, cockroaches, fleas, flies, mosquitos, spiders, ticks and wasps are controlled by direct contact with the spray and also by the residual action as they come in contact with treated surfaces.

**TERMITES:** Wellfarm Bifenthrin 100 EC Insecticide should be used as part of an overall termite management program as detailed in Australian Standard Series AS 3660 - Termite Management. Use Wellfarm Bifenthrin 100 EC Insecticide to establish a continuous chemical soil barrier between the structure and the termite colony in accord with Australian Standard Series AS 3660. A great deal of care is required to understand the construction details of the building and to apply Wellfarm Bifenthrin 100 EC Insecticide in a manner which ensures a complete and continuous chemical soil barrier. To minimise the risk of termite infestation, the subfloor area of buildings should be kept free of stored or waste timber and all other building materials that attract termites. Appropriate action should also be taken to eliminate any undue dampness caused by leaking water or sewerage pipes, or inadequate drainage. Subterranean termites need a constant source of moisture to survive. Provision of adequate ventilation in the subfloor area also helps eliminate undue dampness.

**TERMITE COLONIES NOT IN CONTACT WITH THE GROUND:** Occasionally subterranean termites establish a colony in a building without having contact with the soil because they have access to a continuous supply of moisture (e.g. from a faulty plumbing fixture or a leaking roof). Such colonies are NOT affected by chemical soil barriers and should be treated as recommended for established colonies, as per Australian Standard Series 3660. Wellfarm Bifenthrin 100 EC Insecticide may be applied directly to the termite colony in such situations.

## DIRECTIONS FOR USE

### RESTRAINTS

DO NOT use this product at less than the indicated label rates.

DO NOT apply to soils if excessively wet or immediately after heavy rain to avoid run-off of the chemical.

DO NOT use in cavity walls (except via certified cavity infill reticulation systems or for direct treatment of the nest).

PEST	SITUATIONS	STATE	RATE	CRITICAL COMMENTS
Spiders	External areas & surrounds of Domestic, Commercial, Public and Industrial buildings & structures	All States	25-50 ml/10L	Use the higher rate in situations where pest pressure is high or when rapid knockdown and/or maximum residual control is desired. Pay particular attention to protected dark areas such as cracks and crevices, under floors, eaves and other known hiding or resting places. As a surface spray; apply as a coarse, low pressure spray to areas where spiders hide, frequent and rest. Spray to the point of run-off using around 5L of spray per 100m <sup>2</sup> ensuring thorough coverage of the treated surfaces. For crack and crevice treatments use an appropriate solid stream nozzle.

				<p>For maximum spider control use a two-part treatment.</p> <ol style="list-style-type: none"> <li>1. Treatment of cracks and crevices.</li> <li>2. Overall band spray of surfaces.</li> </ol>
Papernest Wasps			50 ml/10L	Apply prepared emulsion to the point of run-off directly to the Papernest, ensuring thorough and even coverage. When all adult wasps have been knocked down the nest may be safely removed from the structure.
<p>Ants, Cockroaches, Mosquitoes, Fleas, Flies, Ticks (excluding the Paralysis Tick <i>Ixodes holocyclus</i>) - Adults &amp; Nymphs</p>			50-100 ml/10L	<p>On non-porous surfaces apply as a coarse spray at the rate of 1L of emulsion per 20m<sup>2</sup>. When treating non-porous surfaces DO NOT exceed the point of run-off. On porous surfaces or for use through power equipment, spray at the rate of 1L of emulsion per 10m<sup>2</sup>. When treating porous surfaces DO NOT exceed the point of run-off. Use the higher rate in situations where pest pressure is high, when rapid knockdown and/or maximum residual protection is desired. The lower rate may be used for follow-up treatments.</p> <p>To control ants apply to trails and nests. Repeat as necessary.</p> <p>To control fleas and ticks apply prepared emulsion to outside surfaces of buildings and surrounds including but NOT limited to foundations, verandas, window frames, eaves, patios, garages, pet housing, soil, turf, trunks of woody ornamentals or other areas where pests congregate or have been seen.</p> <p>To control flies and mosquitoes apply prepared emulsion to surfaces where insects rest or harbour. Reapply as necessary.</p> <p>For perimeter treatments apply the prepared emulsion to a band of soil or vegetation 2 to 3 metres wide around and adjacent to the structure. Also treat the foundation of the structure to a height of approximately 1 metre. Use a spray volume of 5 to 10 L per 100m<sup>2</sup>. Higher volumes of water may be needed if organic matter is present or foliage is dense.</p>
Subterranean Termites	<p>Domestic, Public, Commercial and Industrial areas</p> <p>Poles and Posts</p>	All States, except TAS	Refer to Table A	Refer to Table B

**TABLE A: WELLFARM BIFENTHRIN 100 EC INSECTICIDE USE RATES FOR THE MANAGEMENT OF SUBTERRANEAN TERMITES**

SITUATIONS	ALL AREAS SOUTH OF THE TROPIC OF CAPRICORN (EXCEPT TAS)		ALL AREAS NORTH OF THE TROPIC OF CAPRICORN	
	RATE	POTENTIAL PROTECTION*	RATE	POTENTIAL PROTECTION*
Pre-Construction Barriers: under slabs and under suspended floors with less than 400mm crawl space	1L/100L	Up to 10 years or more	1.5L/100L	Up to 5 years
			1L/100L**	Up to 4 years
	500ml/100L	Up to 10 years	750ml/100L**	Up to 3 years
			500ml/100L**	Up to 2 years
Perimeter Barriers: for new and existing buildings	1L/100L	Up to 10 years or more	1.5L/100L	Up to 5 years
	500ml/100L	Up to 10 years	1L/100L	Up to 4 years
	250ml/100L	Up to 3 years	750ml/100L	Up to 3 years
			500ml/100L	Up to 2 years
Post-Construction Barriers: under slabs and under suspended floors with less than 400mm crawl space	1L/100L	Up to 10 years or more	1.5L/100L	Up to 5 years
			1L/100L	Up to 4 years
	500ml/100L	Up to 10 years	750ml/100L	Up to 3 years
			500ml/100L	Up to 2 years
Reticulation Systems: perimeter and/or service penetration treatment only	1L/100L	Up to 10 years or more	1.5L/100L	Up to 5 years
	500ml/100L	Up to 10 years	1L/100L	Up to 4 years
	250ml/100L	Up to 3 years	750ml/100L	Up to 3 years
			500ml/100L	Up to 2 years
Reticulation Systems: cavity infill and footing barriers	500ml/100L	Up to 5 years	1L/100L	Up to 2 years
Protection of Poles and Fence Posts	500ml/100L	Up to 10 years	1.5L/100L	Up to 5 years
			1L/100L	Up to 4 years
			750ml/100L	Up to 3 years
Nest Eradication	500ml/100L	Not Applicable	500ml/100L	Not Applicable

\* regular, competent inspections by a licensed Pest Manager are recommended as part of an overall termite management program to determine the prevailing termite pressure and environmental conditions and consequent requirement for further termite management options. Inspections should be performed at least on an annual basis, but more frequent inspections are strongly recommended. Several factors contribute to longevity of the termite treatment and must be considered when evaluating the need for retreatment. The actual protection period will depend on the termite hazard, climate, soil conditions and rate of insecticide used.

\*\* this rate must be used in conjunction with a reticulation system that is capable of distributing the Wellfarm Bifenthrin 100 EC Insecticide emulsion according to the product label and the Australian Standard AS 3660 Series.

**TABLE B: CRITICAL COMMENTS FOR THE MANAGEMENT OF SUBTERRANEAN TERMITES**

SITUATIONS	CRITICAL COMMENTS
Pre-Construction Barriers: under slabs for protection of new buildings	<p>Apply with suitable application equipment to form a complete and continuous chemical barrier (both vertical and horizontal) under the slab, the formation of the barrier may require a combination of conventional open wand application and soil trenching and/or rodding applications. Recommended rod spacing should be between 150mm and 300mm as per soil type. For additional information refer to CRITICAL APPLICATION DETAILS on this label and the Australian Standard AS 3660 Series.</p> <p>An external perimeter barrier (both horizontal and vertical) is an essential part of a termite management program and must be installed at the completion of the building. Refer to "Perimeter Barriers" below for further details.</p> <p>Chemical barriers that have been disturbed by construction, excavation and/or landscaping activities will need to be reapplied to restore continuity of the barrier.</p>
Pre-Construction Barriers: under suspended floors	<p>For areas beneath suspended floors that have inadequate access (e.g. less than 400mm clearance) the entire sub-floor area should be treated with a continuous horizontal barrier, which completely abuts an internal vertical barrier (if required) around any substructure walls. Ideally, this operation should be done during construction at the building while access is more readily available.</p> <p>For areas beneath suspended floors which have adequate access (e.g. more than 400mm clearance), install perimeter barriers around each individual pier, stump, service penetration and substructure wall.</p> <p>An external perimeter barrier (both horizontal and vertical) is an essential part of a termite management program and must be installed at the completion of the building. Refer to "Perimeter Barriers" below for further details.</p> <p>Chemical barriers that have been disturbed by construction, excavation and/or landscaping activities will need to be reapplied to restore continuity of the barrier.</p>
Perimeter Barriers: for new and existing buildings	<p>Perimeter barriers (both horizontal and vertical, external and, where required, internal or subfloor) are an essential part of termite management and must be installed at the completion of the building. Perimeter barriers should be installed around slabs, piers, substructure walls and external penetration points.</p> <p>Apply with suitable application equipment to form a continuous chemical barrier (both vertical and horizontal) around the structure and to a depth reaching to the top of the footings, where appropriate. The formation of the barrier may require a combination of several application techniques, including soil trenching and/or rodding and open wand applications.</p> <p>Chemical barriers that have been disturbed by construction, excavation and/or landscaping activities will need to be reapplied to restore continuity of the barrier.</p>
Post-Construction Barrier Treatment: for the management of termites in existing buildings	<p>Apply with suitable application equipment to form a continuous chemical barrier (both vertical and horizontal) around and under the structure with particular emphasis on known infestation areas. The formation of the barrier may require a combination of several application techniques, including soil rodding, trenching, open wand applications and sub-slab injections.</p> <p>Chemical barriers beneath concrete slabs and paths will require concrete drilling. Recommended drill hole spacing are between 150mm and 300mm. To enhance soil distribution use a lateral dispersion tip on the injector and apply up to 10L of emulsion per linear metre to ensure formation of a continuous barrier. Holes should be drilled NO more than 150mm from walls or expansion joints.</p> <p>For areas beneath suspended floors that have inadequate access (i.e. less than 400mm clearance), the entire subfloor area should be treated as a continuous horizontal barrier, which completely abuts an internal vertical barrier (if required) around any substructure walls. Otherwise, install perimeter barriers around each individual pier, stump, penetration point and substructure wall.</p> <p>Chemical barriers that have been disturbed by construction, excavation and/or landscaping activities will need to be reapplied to restore continuity of the barrier.</p>
Reticulation Systems: perimeter and/or service penetration treatment only	<p>Wellfarm Bifenthrin 100 EC Insecticide must be used through a certified reticulation system to form and replenish cavity infill and footing barriers. The system must be installed according to the manufacturer's specifications and be capable of distributing the Wellfarm Bifenthrin 100 EC Insecticide emulsion according to the product label and the Australian Standard AS 3660 Series.</p>

	<p>Perimeter barriers consist of a horizontal barrier abutting (where required) a vertical barrier, which must reach down to the top of the footings.</p> <p>Delivery pipes must be placed in such a position to ensure that the requirements for both horizontal and vertical barriers, as specified in the Australian Standard AS 3660 Series, are met. Special attention must also be afforded to the positioning of the delivery pipes to ensure that the resultant insecticide barriers are continuous and complete.</p> <p>Apply the prepared insecticide emulsion by pumping through the system according to the manufacturer's specifications. Use a minimum delivery volume of 100L of emulsion per m<sup>3</sup> of soil. This equates to a delivery volume of 5L of emulsion per linear metre for a vertical barrier of 300mm x 150mm in dimension.</p> <p><b>PRE-CONSTRUCTION - FOR USE IN CONJUNCTION WITH FULL SOIL TREATMENT HORIZONTAL BARRIERS ONLY:</b> Apply the diluted emulsion through the perimeter reticulation system as specified above. Follow instructions for pre-construction horizontal barrier formation.</p>
Reticulation Systems: cavity infill & footing barriers	<p>The system must be installed according to the manufacturer's specifications and be capable of distributing the insecticide emulsion according to the product label and the Australian Standard AS 3660 Series.</p> <p>Delivery pipes must be placed in such a position to ensure that the requirements for both horizontal and vertical barriers as specified in the Australian Standard AS 3660 Series are met. Special attention must also be afforded to the positioning of the delivery pipes to ensure that the resultant insecticide barriers are continuous and complete.</p> <p>Apply the prepared insecticide emulsion by pumping through the system according to the manufacturer's specifications with a delivery volume of 2L of emulsion per linear metre of delivery pipe.</p> <p>NOTE: Where this system is to be installed at the pre-construction stage, a full under slab pre-construction barrier, applied by either open wand application or suitably certified reticulation system, is also recommended.</p> <p>The recommended rate of application is 2L of emulsion per linear metre which equates to 2L of emulsion per 0.0068 m<sup>3</sup> or approximately 7L of sand. Should the volume of fill in the wall cavity deviate from 7L (0.17 m x 0.04 m x 1 m = 0.0068 m<sup>3</sup>) per linear metre of wall cavity, then the amount of Wellfarm Bifenthrin 100 EC Insecticide emulsion applied per linear metre of wall cavity should be adjusted accordingly. As a guide, the target Wellfarm Bifenthrin 100 EC Insecticide loading of treated sand/soil in a cavity wall situation is 110 mg/kg South of the Tropic of Capricorn and 220 mg/kg North of the Tropic of Capricorn. To facilitate more even distribution of the Wellfarm Bifenthrin 100 EC Insecticide emulsion in the wall cavity, ensure that the fill is evenly compacted at the time of installation. To further enhance distribution saturation of the sand/soil in the infill is recommended at the time of treatment.</p>
Protection of Service Poles and Fence Posts	<p>Create a continuous insecticide barrier 450mm deep and 150mm wide around the pole or post by soil injection or rodding. For new poles and posts, treat backfill and the bottom of the hole. Use 100L of emulsion per m<sup>3</sup> of soil.</p> <p>Regular inspections should be undertaken to determine when and if retreatment is necessary. If disturbance of the barrier has occurred, retreatment of the area affected will be required. Posts and poles may also be drilled and injected with spray solution.</p> <p>NOTE: For existing poles and posts, it is impractical to treat the full depth and underneath of such poles and posts and therefore the possibility of future termite attack from below the treated area CANNOT be ruled out.</p>
Eradication of Termite Nests	<p>Locate nest and flood with Wellfarm Bifenthrin 100 EC Insecticide emulsion. Trees, poles, posts and stumps containing nests may require drilling prior to treatment with Wellfarm Bifenthrin 100 EC Insecticide emulsion. The purpose of drilling is to ensure the insecticide emulsion is distributed throughout the entire nest. Drill holes in live trees should be sealed with an appropriate caulking compound after injection.</p>

NOTE: The insecticide barrier provided by this product has a finite life. This, together with the recommendation to undertake annual inspections, must be stated on the durable notice required by the BCA [Clause B1.3 (j) (ii)]

**NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL  
UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

#### **CONDITIONS OF USE BY AUTHORISED PERSONS**

The pest manager must be licensed under state legislation. For pre-construction treatments, the pest manager must advise the site supervisor, if any, and any workers who may come into contact with uncovered treated soil prior to laying the moisture membrane, to wear appropriate personal protective equipment and to observe re-entry requirements.

(For personal protective equipment, refer to "SAFETY DIRECTIONS" section below)

(For re-entry, refer to "PRECAUTIONS AND RE-ENTRY PERIOD" section below)

#### **GENERAL INSTRUCTIONS**

**URBAN PEST MANAGEMENT:** Wellfarm Bifenthrin 100 EC Insecticide is a powerful knockdown and residual control agent. Ants, cockroaches, fleas, flies, mosquitos, spiders, ticks and wasps are controlled by direct contact with the spray and also by the residual action as they come in contact with treated surfaces.

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**TERMITE COLONIES NOT IN CONTACT WITH THE GROUND:** Occasionally subterranean termites establish a colony in a building without having contact with the soil because they have access to a continuous supply of moisture (e.g. from a faulty plumbing fixture or a leaking roof). Such colonies are NOT affected by chemical soil barriers and should be treated as recommended for established colonies, as per Australian Standard Series 3660. Wellfarm Bifenthrin 100 EC Insecticide may be applied directly to the termite colony in such situations.

#### **INSECTICIDE RESISTANCE WARNING**

<b>GROUP</b>	<b>3A</b>	<b>INSECTICIDE</b>
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For insecticide resistance management, Wellfarm Bifenthrin 100 EC Insecticide is a Group 3A insecticide.

Some naturally occurring insect biotypes resistant to Wellfarm Bifenthrin 100 EC Insecticide and other Group 3A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Wellfarm Bifenthrin 100 EC Insecticide and other Group 3A insecticides are used repeatedly. These resistant insect will NOT be controlled by Wellfarm Bifenthrin 100 EC Insecticide or any other Group 3A insecticides. The effectiveness of Wellfarm Bifenthrin 100 EC Insecticide on resistant individuals could be significantly reduced.

Since the occurrence of resistant individuals is difficult to detect prior to use, Wellfarm Pty Ltd accepts NO liability for any losses that may result from the failure of Wellfarm Bifenthrin 100 EC Insecticide to control resistant insects.



Wellfarm Bifenthrin 100 EC Insecticide may be subject to specific resistance management strategies. For further information consult your local farm chemical supplier, consultant, local Department of Agriculture or Primary Industries.

### **MIXING**

Add the required quantity of Wellfarm Bifenthrin 100 EC Insecticide to water in the spray tank and mix thoroughly. Maintain agitation during both mixing and application.

To facilitate even application of the emulsion over the area to be treated, the addition of a marker dye at label rates is recommended. On hard to wet soils, the penetration of the emulsion may be improved by the addition of a soil surfactant at label rates.

### **CRITICAL APPLICATION DETAILS**

The application of Wellfarm Bifenthrin 100 EC Insecticide to form both horizontal and vertical chemical barriers must be in accordance with the Australian Standard AS 3660 Series.

For the treatment of new and existing buildings, both horizontal and vertical barriers may be required around and under the building. External perimeter barriers, and where required internal barriers, are an essential part of this treatment. The purpose of a chemical termite soil barrier is to provide a continuous, no-gap barrier between the building and the termite colony. It is therefore essential that the Pest Manager is familiar with the construction details of the building. For further details refer to the "Horizontal Barrier Treatments" and "Vertical Barrier Treatments" statements in this leaflet and to the Australian Standard AS 3660 Series.

### **HORIZONTAL BARRIER TREATMENTS:**

Use 5L of Wellfarm Bifenthrin 100 EC Insecticide emulsion per m<sup>2</sup> of soil.

Scarify the soil to a depth of 80mm and apply the emulsion evenly to the soil surface area to ensure the provision of a continuous barrier with NO gaps. To minimise drift, use low pressure, high volume spray equipment delivering large coarse droplets. On impervious soils, where the application of 5L per m<sup>2</sup> would cause excessive run-off, the application volume may be reduced provided the concentration of the emulsion is increased by a corresponding amount. For example, the volume of applied concentrate must remain constant at 25, 50 or 75mL/m<sup>2</sup> depending on the location and the situation. DO NOT apply emulsion volumes below 2L/m<sup>2</sup>.

In situations where the soil surface is very dry and conditions are conducive to rapid drying, the area to be treated should be moistened prior to the emulsion application.

It is important to note that when applying a horizontal barrier to the perimeter of a building or structure the chemical barrier is deemed to have a depth of 80mm. In situations where the emulsion will NOT readily wet the soil to the required depth, loosen soil to a depth of 80mm by 150mm wide and apply 1.5L of emulsion per lineal metre.

### **VERTICAL BARRIER TREATMENTS:**

To install a vertical barrier use a minimum of 100L of Wellfarm Bifenthrin 100 EC Insecticide emulsion per m<sup>2</sup> of soil. Vertical barriers must be a minimum of 150mm wide, extend down to 80mm below the top of the footing and be complete and continuous. Vertical barriers can be installed by trenching and treating the soil as it is backfilled, by soil rodding or by the use of reticulation systems, as described in the Australian Standard AS 3660 Series.

When using the soil rodding method to establish a vertical barrier the distance between rod spacing should be as per the following table. To improve soil penetration, the soil should be loosened to a depth of 150mm.

SOIL TYPE	ROD SPACING (mm)
Heavy Clay	150
Clay Loams	200
Loams	250
Sands	300

### **PERIMETER BARRIER TREATMENTS**

Perimeter barriers consist of horizontal barriers at least 150mm wide adjoining a vertical barrier of at least 150mm in width. A perimeter barrier must completely surround all buildings, pipes, piers and service penetrations. In buildings with suspended floors with greater than 400mm crawl space, perimeter barriers should be installed to surround piers, stumps and service penetrations and completely about all substructure walls.

External horizontal barriers should be created by loosening the soil to a depth of 80mm and then applying 1.5L of the diluted Wellfarm Bifenthrin 100 EC Insecticide per linear metre around the outside of the structure.

To ensure provision of a continuous barrier use a minimum of 100L of emulsion per m<sup>3</sup> of soil. This equates to a delivery volume of 5L of emulsion per linear metre for a 300mm vertical barrier, or 10L of emulsion per linear metre for a 600mm vertical barrier.

Termites may gain access behind engaged piers against single brick walls unless the soil is treated on both sides of the wall down to the footing.

### **POST-CONSTRUCTION TREATMENTS UNDER CONCRETE SLABS**

For concrete slabs, the emulsion may be injected through pre-drilled holes through the slab, at intervals between 150mm and 300mm. The following table shows the recommended hole spacing and recommended volume of spray solution required per injection hole, depending on the soil type.

SOIL TYPE	HOLE SPACING (mm)	LITRES PER HOLE
Heavy Clay	150	1.5
Clay Loams	200	2
Loams	250	2.5
Sands	300	3

Application equipment used to inject Wellfarm Bifenthrin 100 EC Insecticide through pre-drilled holes in an interior situation must be in good working order, free of any leaks and the injector must have tip shut-off to prevent nozzle dripping. Lateral dispersion tips are recommended to ensure even distribution. Drill holes must be resealed following injection of the emulsion. The decision and/or need for drilling concrete floor slabs should only be made after a thorough inspection of the building. The degree of termite activity should also be taken into consideration. Refer to AS 3660.2.

### **TREATMENT IN CONJUNCTION WITH PHYSICAL BARRIERS**

In situations where the termite management system is to consist of a combination of both a physical and a Wellfarm Bifenthrin 100 EC Insecticide soil barrier, each certified system must be installed according to the relevant and appropriate product specification and the Australian Standard AS 3660 Series.

### **RETICULATION SYSTEMS**

Wellfarm Bifenthrin 100 EC Insecticide can be used through reticulation systems to form horizontal and vertical barriers under and around structures and all service penetrations. The reticulation system must be certified and be capable of distributing the emulsion according to the product label and the Australian Standard AS 3660 Series.

In situations using reticulation systems to form barriers around the perimeter and/or service penetrations only, a full pre-construction hand-spray horizontal barrier is recommended. It is the responsibility of the builder and all relevant sub-contractors to ensure that all termite barrier systems are installed in accordance with the relevant product installation directions and the Australian Standard AS 3660 Series.

### **SERVICE REQUIREMENTS**

Service requirements are to be determined as a result of at least an annual inspection by a licensed Pest Manager. More frequent inspections are strongly recommended. More frequent inspections may be required in high-risk termite areas.

In determining the need for service, factors such as local termite pressure, breaches of the barrier and insecticide longevity should be considered.

Subterranean termites are on occasions capable of bridging termite barriers and therefore regular inspections, as detailed in the Australian Standard AS 4349.3, will significantly increase the probability of detection of termite activity before any damage, or costly repairs are required.

Several factors contribute to longevity of the termite treatment and must be considered when evaluating the need for retreatment. The actual protection period will depend on the termite hazard, climate, soil conditions and rate of insecticide used. Refer to Table A for advice for the protection periods provided.

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

**DANGEROUS TO FISH AND AQUATIC ORGANISMS.**

DO NOT contaminate dams, streams, drains, rivers or waterways with the chemicals or used containers.

## **PROTECTION OF PETS AND LIVESTOCK**

Before spraying, remove animals and pets from the areas to be treated.

Cover or remove any open food and water containers.

Cover or remove fish ponds, aquariums, etc. before spraying.

## **CONDITIONS OF USE BY AUTHORISED PERSONS**

The pest manager must be licensed under state legislation. For pre-construction treatments, the pest manager must advise the site supervisor, if any, and any workers who may come into contact with uncovered treated soil prior to laying the moisture membrane, to wear appropriate personal protective equipment and to observe re-entry requirements.

(For personal protective equipment, refer to "SAFETY DIRECTIONS" section below)

(For re-entry, refer to "PRECAUTIONS AND RE-ENTRY PERIOD" section below)

## **PRECAUTIONS AND RE-ENTRY PERIOD**

DO NOT spray into the air or directly on humans, pets or animals. Avoid contact with food, food utensils or preparation surfaces.

## **RE-ENTRY PERIOD**

**Pre-Construction:** DO NOT allow entry into uncovered treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear. Clothing must be laundered after each day's use.

**Post Construction And Urban Pest Management:** DO NOT allow people or pets to contact treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear. Clothing must be laundered after each day's use.

## **STORAGE, SPILLAGE AND DISPOSAL**

### **KEEP OUT OF REACH OF CHILDREN**

Store in the closed, original container in a cool, well ventilated area away from children, animals, food and feedstuffs. DO NOT store for prolonged periods in direct sunlight. In case of spillage, confine and absorb spilled product with absorbent material such as sand, clay or cat litter. Dispose of waste as indicated below or according to the Australian Standard AS 2507 - Storage and Handling of Pesticides. DO NOT allow spilled product to enter sewers, drains, creeks or any other waterways. Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. 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 deliver empty containers for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty containers 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory Government Regulations. DO NOT burn empty containers or product. DO NOT bury waste or surplus product. Dispose of undiluted waste either by dilution and use according to the Directions For Use Table or returning to the point of purchase in the original container for controlled disposal. Dispose of diluted surplus product by using according to the Directions For Use Table. DO NOT re-use empty containers.

## **SAFETY DIRECTIONS**

Poisonous if swallowed. Will damage eyes and will irritate the skin. Avoid contact with eyes and skin.

DO NOT inhale vapour or spray mist.

When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves, face shield or goggles and chemical resistant footwear.

When using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves and chemical resistant footwear.

When using in enclosed areas, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC, neoprene or nitrile gloves, chemical resistant footwear and half face piece respirator with combined dust and gas cartridge.

If clothing becomes contaminated with product or wet with spray, remove clothing immediately.

If product or spray on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

After each day's use, wash gloves, face shield or goggles, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

#### **FIRST AID**

If poisoning occurs contact a Doctor or phone the Australian Poisons Information Centre 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes wash out immediately with water.

#### **MATERIAL SAFETY DATA SHEET**

Additional information is listed in the Material Safety Data Sheet (MSDS) that can be obtained from the supplier.

#### **CONDITIONS OF SALE**

The use of this product is beyond the control of the manufacturer. No warranty expressed or implied is given by Wellfarm Pty Ltd regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Wellfarm Pty Ltd accepts NO responsibility for any consequences whatsoever resulting from the use of this product.

#### **MANUFACTURER'S WARRANTY AND EXCLUSION OF LIABILITY**

Wellfarm Pty Ltd has no control over storage, handling and manner of use of this product. Where the material is not stored, handled or used correctly and in accordance with the directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Wellfarm Pty Ltd accepts NO liability for any losses or damages arising from incorrectly storage, handling or use.

**IN AN EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE**

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