



INNOVATIVE and AUSTRALIAN

# OUT OF BOUNDS INSECTICIDE

Insecticide containing 100g/L Bifenthrin



### COST EFFECTIVENESS

1. Bifenthrin is a very active molecule and consequently very low application rates are required to achieve good levels of control.
2. The product is not metabolized extensively by plants or micro-organisms and there is no degradation of the product over time. These features in combination with the specific product formulation make Barmac **OUT OF BOUNDS** an extremely cost effective solution.

### TOXICOLOGICAL PROFILE

Barmac **OUT OF BOUNDS** offers a higher level of environmental safety than comparative products.

- The product is poorly soluble in water and exhibits strong soil binding properties.
- The risk of this product leaching and contaminating water sources is extremely low.
- Low mammalian toxicity is a key feature of Barmac **OUT OF BOUNDS** and it does not accumulate in the body after repeated doses.
- Is not a skin sensitizer and will not cause allergic reactions.

*Barmac OUT OF BOUNDS Insecticide is an extremely broad spectrum contact insecticide for use in turf situations (Bowling greens, Lawns, Commercial turf farms, Parks, Recreational Areas and Sporting fields), External Areas and surrounds of buildings and structures.*

### MODE OF ACTION

Barmac **OUT OF BOUNDS** Insecticide is a member of the Pyrethroid group of insecticides. This group of insecticides are sodium channel modulators and prevent the sodium channel from closing and suppress increases in the potassium current. This leads to continual nerve impulse transmission, tremors and eventual death.

### BROAD SPECTRUM ACTIVITY

Barmac **OUT OF BOUNDS** Insecticide provides excellent knockdown and residual control of the following insect species:

Lawn Armyworms	Ants
Sod webworms	Cockroaches
Argentine stem weevils	Mosquitoes
African Black Beetles	Fleas
Billbugs	



### PACK SIZE:

Available in 5 Litres.

For more information about OUT OF BOUNDS or other BARMAC products visit [www.barmac.com.au](http://www.barmac.com.au) or one of our distributors.  
Barmac Industries Pty Ltd Swanbank Australia

OUT OF BOUNDS B0108 V2

OUT OF BOUNDS



[www.barmac.com.au](http://www.barmac.com.au)

## DIRECTIONS FOR USE:

SITUATION	PEST	RATE	CRITICAL COMMENTS
Turf (for example: Lawns, Commercial turf Farms, Parks, Recreational ar- eas, Sport fields.)	Lawn armyworm ( <i>Spodoptera maurita</i> )	1.2 L/ha  (12mL/100m <sup>2</sup> )	Mix Barmac Out Of Bounds Insecticide in water and apply evenly over the area to be treated using spray application equipment Use a minimum total volume of at least 200L/ha (2L/100m <sup>2</sup> ) to ensure optimum control, irrigate the treated area with up to 4mm of water soon after application. Inspect treated areas for continuing activity. Reapply as required. Where a rate range is indicated use lower rates under lower insect pressure and higher rates under higher insect pressure. Apply after mowing to minimise loss of insecticide in clippings.
	Sodwebworm ( <i>Herpetogramma licarsialis</i> )		
	Argentine stem weevil adults  ( <i>Listronotus bonariensis</i> )	1.2 - 2.4L/ha (12- 24mL/100m <sup>2</sup> )	
	African black Beetle adults ( <i>Heteronychus arator</i> )	2.4 - 3.6L/ha (24- 36mL/100m <sup>2</sup> )	
	Billbugs adults ( <i>Senophorus</i> sp)	1.2 - 2.4L/ha (12- 24mL/100m <sup>2</sup> )	
	Black ant, Coastal brown ant, Funnel ant, Meat ant, Sugar ant and Stinging ant only	1.2 - 4.4L/ha (12- 44mL/100m <sup>2</sup> )	Mix Barmac Out of Bounds Insecticide in water and apply over the area to be treated using spray application equipment. Apply to areas where ants are active. Where possible spray directly into the nests. Use the low rate for maintenance treatments or to control light infestations and the high rate for heavy infestations and for maximum residual control. The elimination of funnel ants from a particular site will generally require more than one application. Initial applications should be applied over affected areas. As the initial numbers of active colonies is reduced, application should shift to targeting active mounds. Apply spray directly to the mound and in the area immediately surrounding active mounds(300 radius)