



Product Name:	Pennside
Type	Insecticide
Active Constituent	240g/L Diazinon (Microencapsulated)
Resistance group	Group 1A
Formulation	Suspension Capsule (Microencapsulated)
Pack Size	5L, 25L
Mode of action	Contact & Ingestion
Poison Schedule	5

Pennside the microencapsulation process- knock down, preventative and residual

Pennside works by coating the active ingredient with a polymer (plastic) resulting in a flowable suspension of microcapsules. Average capsule size is 30-40 microns which allows a slow release of the active ingredient over a period of 3-4 weeks. To control the insects the capsules adhere to their bodies or are ingested during feeding. Then the active ingredient is released giving the insects a fatal dose. The active ingredient slowly diffuses through the capsule wall - this continues until the capsule is empty. This means Pennside works consistently until the capsules are empty. The microencapsulation in Pennside greatly reduces the acute toxicity of the active ingredient (diazinon), making Pennside user friendly. The capsules do not release whilst in the spray solution but become active after application to turf.

Broad spectrum

With Pennside there is no need to apply multiple insecticides to stop multiple attacks of different insects. Pennside works on all stages of the insect life cycle.

PEST	RATE PER 100m ²	RATE PER HA (10,000m ²)	RATE PER STANDARD SIZE BOWLING GREEN 1444m ²
Argentine Stem Weevil	125mL-250mL	12.5L-25L	1.8L-3.6L
African Black Beetle	125mL	12.5L	1.8L
Mole Cricket	200mL	20L	2.9L
Grass-eating Caterpillars e.g armyworm and cutworm	30mL	3L <i>(does not need irrigation)</i>	430mL

Minimal Irrigation

Pennside only needs 2mm of irrigation after application while other needs irrigation up to 12mm. However sufficient irrigation must be given to ensure Pennside is washed from turf leaves before mowing. Ideally for best results apply Pennside after mowing has taken place.



COLIN CAMPBELL (CHEMICALS) PTY LTD
 100% Australian owned & operated. Established 1940
 The Key to Professional Turf
www.campbellchemicals.com.au (02) 9725 2544



Knock Them Down

The advertisement features a blue background with a yellow border. At the top center is the Campbell logo, a diamond-shaped emblem with a plant inside, and the word "Campbell" in a cursive font. Below the logo is a black star. The word "BIFF" is written in large, bold, black letters with a white outline. Two white, cartoonish fists are shown on either side of the word, appearing to punch through it. Below "BIFF" is the text "100SC INSECTICIDE" and "ACTIVE CONSTITUENT: 100g/L BIFENTHRIN". At the bottom, there is a white box with a black background in the center containing the text "GROUP 3A INSECTICIDE".

BIFF
100SC INSECTICIDE
ACTIVE CONSTITUENT: 100g/L BIFENTHRIN
GROUP **3A** INSECTICIDE

Then Keep Them Down with

The advertisement has a dark green background with a white and light green geometric design. On the left is the Campbell logo and the word "PENNSIDE" in large, bold, white letters, followed by "Flowable Microencapsulated Insecticide" in a smaller white font. On the right, there is a collage of four images: a close-up of a black fly, a close-up of a black beetle, a close-up of a purple beetle, and a close-up of a red beetle. A white arrow points from the bottom right towards the text.

PENNSIDE[®]
Flowable Microencapsulated
Insecticide

2 Step Campbell Insecticide Program:

- 1) Apply Biff as a knockdown then apply Pennside for residual 4 week control
OR
- 2) Tank mix Biff and Pennside for long lasting control (water in as per Biff label)