

# ACELEPRYN®

Your partner, for season-long control

 **Acelepryn®**  
Insecticide

 **syngenta®**

Single application of Acelepryn® gives you season long control of White grubs, Billbugs and Caterpillars in turf.

## Key Benefits

- Long season control up to 6 months
- One single application for high efficacy against White grubs, Billbugs, Turf Caterpillars (Cutworm, Armyworm and Sod webworm)
- Delivers excellent preventive and curative performance
- Flexible to apply
  - Non-scheduled with high turf safety
  - No re-entry periods
  - 2 hours rainfastness
- Low environmental impact

Active ingredient:  
**CHLORANTRANILIPROLE**

New Class of Chemistry:  
**ANTHRILIC DIAMIDES**

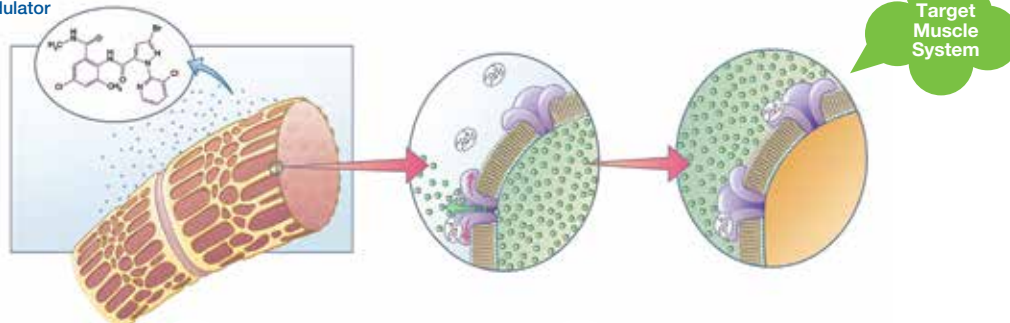
Novel Mode of Action:  
**RYANODINE RECEPTOR MODULATOR**

Formulation:  
**Suspension Concentrate 200g/L**

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## **Acelepryn®** NEW Mode of Action

Ryanodine receptor  
modulator



Target  
Muscle  
System

Phase  
**1**

### Exposures

Insect comes in contact with or ingests Chlorantraniliprole, the active ingredient in Acelepryn® Insecticide

Phase  
**2**

### Activation

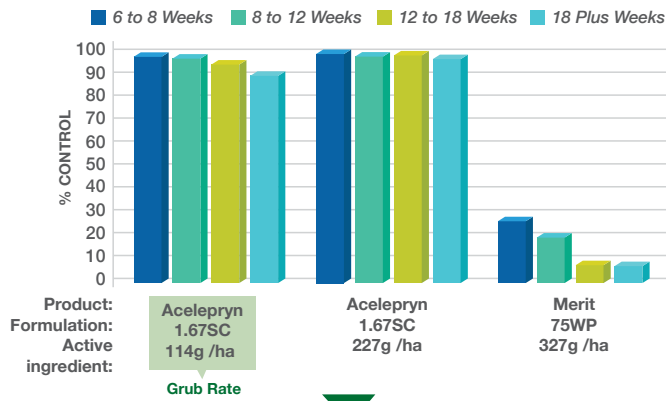
Chlorantraniliprole binds to and activates the ryanodine receptors located in the insect's muscle and causes them to open

Phase  
**3**

### Paralysis

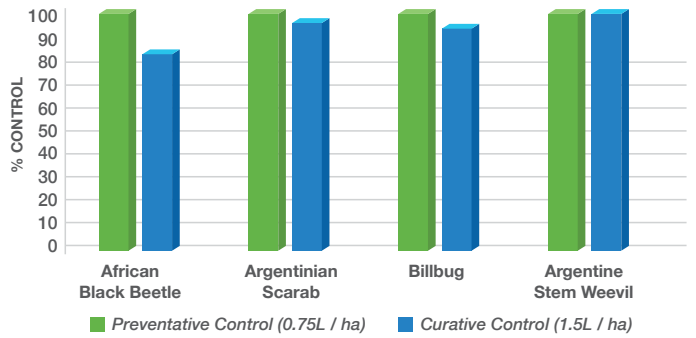
Calcium ions flow out of the open ryanodine receptors, depleting calcium needed for muscle contraction. Paralysis of the insect muscle leads to death

## Acelepryn® Residual Turf Caterpillar Control Summary of 11 Field Trials in US



Season-long control against Turf Caterpillars

## Acelepryn® Performance Summary Australia

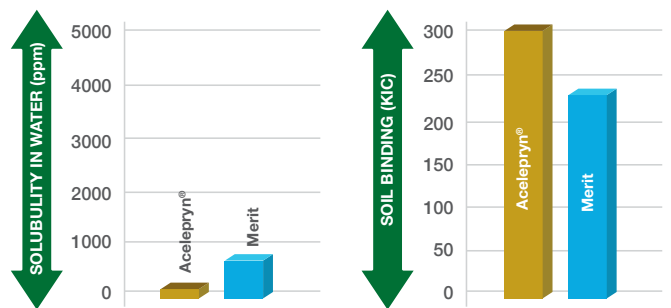


Optimum efficacy when applied preventatively

### Long lasting control

The binding of Acelepryn® within the soil matrix, combined with low water solubility means it is likely to stay where it is and not move towards the surface or ground water. The charts alongside show the lesser mobility of Acelepryn®. The combination of low water solubility and higher soil binding properties give Acelepryn® its **long residual action** and a very **small environmental impact**.

- Although Acelepryn® has low water solubility the formulation allows for great penetration into the thatch and soil.
- The fact that Acelepryn® binds well to the soil means that it stays where you apply it!



Acelepryn® low solubility ensure long lasting control

## Acelepryn® application advice

Target	Pest	Application Rate	Nozzle Selection	Water Volume	Pressure
Foliar	Turf Caterpillars: Armyworm, Cutworm, Sod webworm	0.75 l/ha	XC 025 04	200 - 500 l/ha	2 - 4 bar
Roots	Stem weevil, Hunting billbug	0.75 - 1.5 l/ha	08	600 - 1000 l/ha	2 - 4 bar
Roots	White grubs, Billbug larvae	0.75 - 1.5 l/ha	08	600 - 1000 l/ha	2 - 4 bar

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