



ADAMA

Quali-Pro® Twister®

A storm is coming for weevil, scarab and caterpillar pests of turf

Product overview

- Quali-Pro® Twister® is a novel insecticide containing Novaluron, the first insect growth regulator (IGR) registered in the Australian turf industry, coupled with the reliable knockdown Indoxacarb, for quick and long term control of turf pests.
- Effective on major turf insect pests such as Argentine Stem Weevil, African Black Beetle and Billbug, as well as caterpillars such as Cutworm, Armyworm and Webworm.
- Great as a rotational tool.

Mode of action

GROUP 15 | 22A | INSECTICIDE

Introducing Novaluron

A new mode of action in Australian Turf Management

Novaluron is a Group 15 benzoylurea insect growth regulator that inhibits chitin synthesis in the larvae of target pests. Chitin is a key structural component of the cuticle of insects. Depending on the growth stage, reduced chitin production causes abnormal development and larval mortality, disrupts metamorphosis and reduces emergence of adults.

Due to its mode of action, novaluron is slower to control pests. However the long residual activity of novaluron is particularly effective when combined with a partner insecticide with more rapid activity, such as indoxacarb.

Key Points are:

- As the larvae grows to the next stage of its life cycle, it dies.
- Treated larvae never get to adult stage to lay any more eggs.
- Absorbed through the cuticle (skin) and ingested.
- Residual in the soil and translaminar through the plant.

Indoxacarb

Indoxacarb is Group 22A oxadiazine insecticide that inhibits sodium ion entry into insect nerve cells. Larvae exposed to a lethal dose of indoxacarb stop feeding within four hours, with paralysis and mortality occurring after 4-48 hours.

Indoxacarb is also effective when targeting adults. Quali-Pro® Twister® enables a significantly higher maximum use rate of indoxacarb s-isomer (720 g/ha) compared to solo formulations (187.5 g/ha). This robust high rate provides excellent knockdown and residual control.

Key Points are:

- Rapid knockdown of both adults and larvae
- Absorbed through the cuticle (skin) and ingested
- Residual in the soil and translaminar through plant

Indoxacarb is an effective knockdown insecticide on all stages of the pest lifecycle.

Novaluron prevents any stage larvae from growing to the next stage in the lifecycle.



Effective against:



Billbug



African Black



Argentine Stem Weevil



Caterpillars



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Quali-Pro® Twister®

At a glance

Two modes of action	Greatly reduced risk of resistance
New MOA for turf industry	Insect Growth Regulator - kills larvae before they moult to next instar
Trusted knockdown	High load of Indoxacarb to get the job done
Great rotational tool for key turf pests	Controls Billbug, African Black Beetle, Argentine Stem Weevil and lepidoptera (caterpillars) including Armyworm, Sod Webworm and Cutworm)

Use rates

SITUATION	PEST	RATE
Excellent turf safety	Argentine Stem Weevil (<i>Listronotus bonariensis</i>)	3L/ha
Turf (including golf course tees, greens and fairways, sports fields, bowling greens and other sport and recreational turf areas)	Billbug (<i>Sphenophorus brunnipennis</i>)	3L/ha
	African Black Beetle (<i>Heteronychus arator</i>)	
	Lepidoptera including: Cutworm (<i>Agrostis</i> spp.) Armyworm (<i>Spodoptera</i> spp.) Sod Webworm (<i>Herpetogramma licarsisalis</i>)	200 - 300ml/ha

Application tips

- May use up to 3 applications per season as part of a program that utilises other MOA groups.
- For Argentine Stem Weevil apply in 400-500L/ha water using a medium to coarse droplet (e.g. AIXR11004 nozzle) and leave on the leaf.
- For Lepidoptera (caterpillars) apply in 400-500L/ha water using a medium to coarse droplet (e.g. AIXR11004 nozzle) and leave on the leaf. Use the higher rate when conditions favour high pest pressure. To ensure optimal control, delay watering (irrigation) or mowing for 24 hours after application.
- For Billbug and African Black Beetle, ideally apply to wet or dewy grass, in as high a volume as possible, and irrigate with at least 3mm irrigation commencing within 1 hour of application.
- A quality soil surfactant may be of benefit for applications to the soil - applied either before or with Quali-Pro Twister



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1800 4 ADAMA

@AdamaAust

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