

THE GOLDEN RULE

A new level of pest control.
Achieve great results by protecting your
canola crops with **Exirel**[®] insecticide.



Exirel[®]
INSECTICIDE



FMC

An Agricultural
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THE GOLDEN RULE



Diamondback moth (*Plutella xylostella*) is a highly destructive and mobile pest, which is also prone to insecticide resistance. It poses a significant threat to canola and brassicas crops in Australia and across the globe.

Exirel® Insecticide + Parachute® Insecticide offers:

- Rapid feeding cessation
- Residual action
- Cross-spectrum activity with protection against sucking and chewing pests
- IPM - considered to have a low to moderate impact on beneficial insects

What is Exirel® Insecticide

Exirel® Insecticide is an innovative solution belonging to the groundbreaking diamide class of chemistry, specifically Group 28. This insecticide represents a major advancement in the field of pest control. It offers exceptional protection for canola crops, introducing a unique and advanced mode of action.

Exirel® Insecticide is the only Group 28 insecticide approved to combat Diamondback moth (*Plutella xylostella*) and other major pests in canola crops.

It is registered to control Diamondback moth, Native budworm (*Helicoverpa punctigera*) and provides suppression of a range of aphid species.

Pests consume a small amount of treated plant material and stop feeding almost immediately, effectively safeguarding the crop.

Mode of Action

Exirel® Insecticide works by impairing muscle function as the molecule binds to the insect's ryanodine receptor leading to the uncontrolled release of calcium ions. The resulting depletion of calcium ions causes muscle dysfunction and paralysis in the targeted insect.

It also has translaminar activity allowing the active ingredient to move through the leaf and access pests that



might be hiding on the underside and provides excellent residual activity for long term pest control solutions.

Exirel® Insecticide's unique mode of action means there is only moderate impact on beneficial insects. It has low toxicity to mammals, birds and other non-target organisms and is an unscheduled poison.

What is Parachute® Insecticide

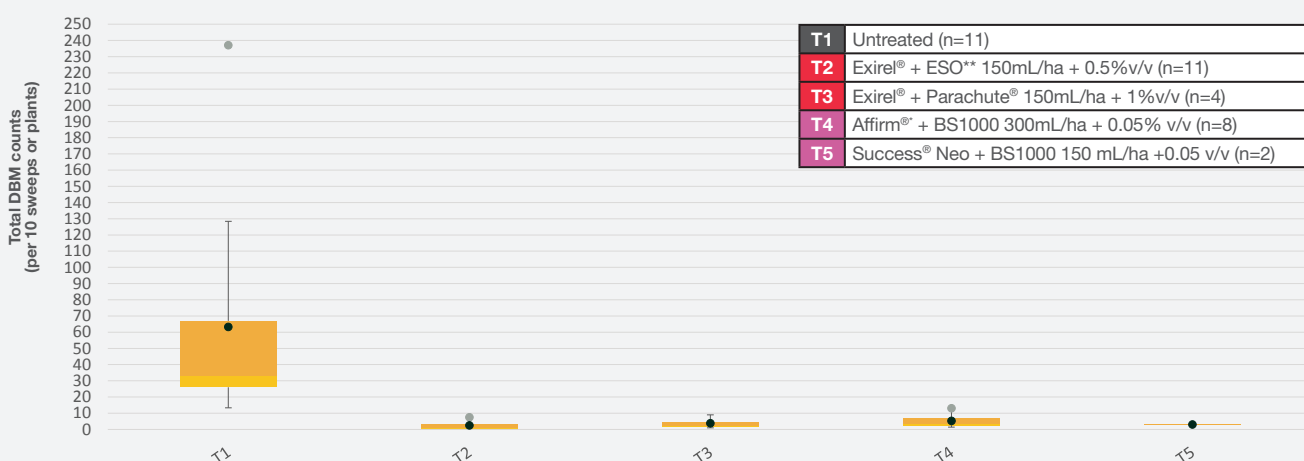
Parachute® Insecticide is a paraffinic oil with an unrivalled combination of paraffinic loading, molecular weight efficacy and hyper-spreading of hydrocarbons. This insecticide works in partnership with beneficial insects to suppress chewing and sucking pests of canola.

It can be applied with Exirel® Insecticide and the enhanced leaf coverage of Parachute® Insecticide will help maximise the pest control of both products.

A combination of Exirel® Insecticide and Parachute® Insecticide will target hard-to-reach areas where pests often feed. This comprehensive pest management approach ensures thorough protection of the crop against Diamondback moths, Native budworm and other significant pests.

Diamondback moth control (larva counts) in canola

Data collected between 10 – 17 days after a single application to flowering / podding canola 11 trials from WA, SA and Tasmania (2008-2023)



Take home message

Exirel® Insecticide + ethylated seed oil or Exirel® Insecticide + Parachute® Insecticide performed similarly to the two commercial standards evaluated for Diamondback moth control across all trials.

Integrated Pest Management (IPM)

Both work particularly well as part of an Integrated Pest Management (IPM) program to encourage beneficial insects and reduce the reliance on pesticides.

Various control strategies include cultural, biological, and chemical methods, and Exirel® Insecticide is considered to have a moderate impact on beneficial insects, Integrated Pest Management (IPM) systems play a crucial role in safeguarding the valuable contributions of beneficial insects in pest control.

When used as part of an IPM program, Exirel® Insecticide and Parachute® Insecticide help to reduce

pest populations while minimizing adverse effects on beneficial insects and the environment. It is crucial to employ Exirel® Insecticide and other insecticides carefully within IPM programs, and continuously monitor pest populations to ensure effective control.

Exirel® Insecticide and Parachute® Insecticide are valuable tools within IPM programs. However, they should be employed as part of a comprehensive pest management strategy that incorporates a range of control measures to achieve sustainable, long-term pest control.

Considerations	Exirel® Insecticide	Parachute® Insecticide
Impact on beneficials	Low to moderate	Low
Mode-of-action	Group 28 Ryanodine receptor modulator	No group - Physically causes ovipositional deterrence, suffocation or desiccation.
IRMS	1 application per season	No restrictions—full season window

Registered label claims for canola	Exirel® Insecticide	Parachute® Insecticide
Diamondback moth	Control	Control when mixed with Bt
Helicoverpa	Control	Suppression
Aphids	Suppression	Suppression
Herbicide Adjuvant	N/A	0.5– 1L/ha





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