

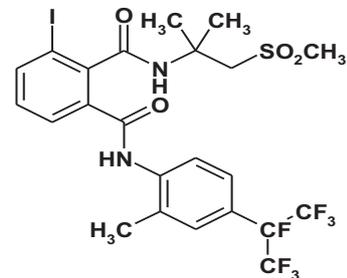


BELT®

unleash the power in Lepidoptera control

Belt® chemistry:

- // **Common Name:** Flubendiamide
- // **Chemical family:** Phthalic acid diamides
- // **Chemical Name (CAS):** N²-[1,1-dimethyl-2-(methylsulfonyl)ethyl]-3-iodo-N¹-[2-methyl-4-[1,2,2,2-tetrafluoro-1-(tri-fluoromethyl)ethyl]-phenyl]-1,2-benzenedicarboxamide
- // **Empirical formula:** C₁₇H₂₁N₅O₉S₂



- | | |
|---|---|
| // Acute Oral Toxicity LD50
>2000 mg/kg body weight | // Eye Irritation
slightly irritating |
| // Acute Dermal Toxicity
>2000 mg/kg body weight | // Skin Irritation
non-irritant |
| // Acute Toxicity Bees
Very low effect on bees | |
| // Acute Toxicity Birds
Very low LD ₅₀ >2000 mg/kg body weight | |
| // Acute Toxicity Fish and Daphnia
Low EC ₅₀ >0.06 mg/liter | |
| // Acute Toxicity Earthworms
Very low LC ₅₀ >1000 mg/kg | |
| // Soil microorganisms
No influence up to 2250 g/ha | |

- // *Very favourable environmental and toxicological profile.*
- // *A new product with a new mode of action for control of lep pests in a wide range of crops.*



Application spectrum

Pieris rapae control in cabbage



Untreated



Belt® 50 g ai/ha

Application spectrum

Trichoplusia ni control in cabbage



Untreated

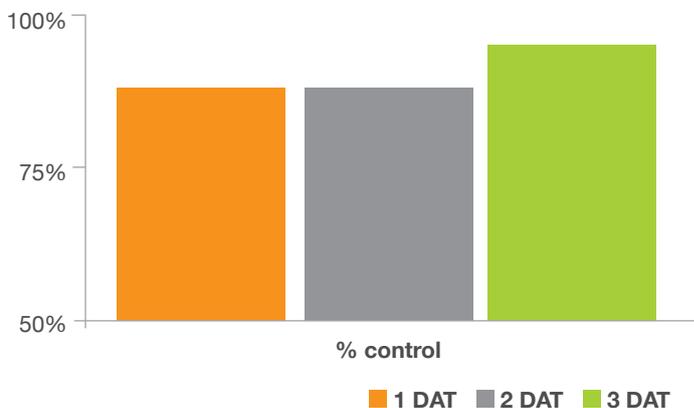


Belt® 50 g ai/ha

Translaminar activity of flubendiamide

- // Plutella xylostella larvae affixed to underside of leaf
- // Treatments applied on leaf surface of cabbage plant
- // Mortality recorded at 1, 2 and 3 days after application

Standard laboratory tests show that **BELT®** exhibits the ability to control lepidopteran pests through translaminar activity



BULLDOCK®

Bulldock® 050 EC

- // Emulsifiable concentrate contact and stomach insecticide for the control of cutworm, stalkborer, *Chilo* and American bollworm
- // **Active ingredient:** Beta-cyfluthrin (pyrethroid): 50 g/l



FOCUS PEST:
cutworm control
with a long residual
action

	Advantages
Formulation: General	<ul style="list-style-type: none"> // Risk of resistance reduced because of high efficacy // Inactive trans isomer removed // F atom suppresses the enzyme that is responsible for resistance development // Highly active CIS isomer makes up 98% of the active
Formulation: Bulldock® GR	<ul style="list-style-type: none"> // Works well as a funnel application // Unique formulation // Cost effective // Ideal for wide rows // Provides a long residual action // Ideal for applying under dry conditions // Can be applied mechanically // Aimed at small farmers for follow up applications
Formulation: Bulldock® 050 EC	<ul style="list-style-type: none"> // Liquid is easier to measure accurately // Pours easily // Long residual action on dry ground

	Advantages
Spectrum	<ul style="list-style-type: none"> // Active in wet and dry soil which is ideal for cutworm control // Highly effective against stalkborer, <i>Chilo</i> and American bollworm // Registered on numerous crops
Technical Benefits	<ul style="list-style-type: none"> // Can be sprayed late in season // Not broken down by sunlight // Has a wide pH range (pH 4 - 9) and can, therefore, be mixed with most water types // Certain other pyrethroids need to be buffered // Lipophilic action ensures that the active sticks to the cuticle providing longer control // Leaching index improves cutworm control
Practical Aspects	<ul style="list-style-type: none"> // Offers long protection (up to 58 days reported from the field) // Ideal for soil application. Rain is essential for high efficacy // Can be mixed with a wide range of products including most herbicides

Belt® Reg. No. L8860 (Act No. 36 of 1947). Belt® contains Flubendiamide (Caution). Bulldock® Reg. No. L7612 (Act No. 36 of 1947). Bulldock® contains Beta-cyfluthrin (Harmful). Belt® and Bulldock® are registered trademarks of Bayer AG, Germany. Use strictly according to instructions on label.

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