

BELT® SC 480 is a foliar contact and translaminar insecticide for the control of caterpillars in brassicas, flowers and other crops.

• Active ingredient: 480 g/l Flubendiamide

BELT® SC 480 active ingredient, *Flubendiamide*, belongs to a new class of chemistry – Benzenedicarboxamide.

BELT® SC 480 is active against a broad spectrum of lepidopterous insect pests, such as Diamondback Moth (*Plutella xylostella*), Caterpillars/ Bollworms (*Heliothis spp.*), Leafworms (*Spodoptera spp.*), budworm etc, and shows excellent activity against larvae as well as adults mainly by ingestion.

Mode of Action

BELT® SC 480 has a new biochemical mode of action, ryanodine receptor modulator, which has no known cross-resistance with any of the presently existing insecticides. The biological mode of action of Flubendiamide can be characterized by a stomach poisoning of insect, fast acting and rapid cessation of feeding immediately after ingestion of the compound followed by death.

BELT® SC 480 thus provides ...

- Rapid paralysis of the larvae - Quickly stops feeding and moving.
- Rapid insect death - Providing greater plant protection.
- Translaminar activity - Provides complete leaf protection.
- Extended residual activity - Provides long lasting efficacy.
- Low rates of use - Less bulky and easy to handle.

Safety Features

BELT® SC 480: Safety to users and consumers

- Very low mammalian toxicity hence WHO class III
- Very low levels of residue in crops – thus good consumer safety
- Short Pre-Harvest Interval (PHI) of 3 days

BELT® SC 480: Safety to beneficials

Good field selectivity to beneficial insects, hence favourable profile to predatory mites, parasitic wasps (*Aphelinus mali*; *Aphidius spp.*), *Anthocoris*, *Orius*, ladybird, lacewing (*Chrysoperla carnea*), hoverflies, etc.

BELT® SC 480: Environmental properties

- Relatively immobile in soil and no accumulation in the environment
- Presents no risk of contamination to ground water when used as recommended

Timing of Application

Timing of application should be based on careful scouting and local thresholds. Apply BELT® SC 480 only on relevant target pests and only when the early economical threshold level (ETL) in developing larval population is reached (One larvae per plant in hot weather condition and two in low temperature season).



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Crop	Pest	Application Rate	Timing of Application/Remarks
Brassica crops:	Diamondback Moth (<i>Plutella xylostella</i>)	75-100ml/ha in 400-500L of water/ha OR 3-4 ml/20litres water	Scout your crop for pests every 4 days from germination. Spray only when the pest is noticed. Repeat the application after 7-14 days depending on re-infestation and pest pressure. Pre-harvest interval: 3 days.
Broccoli Cauliflower Cabbages Kale			
Flowers: Roses Carnations	Caterpillars/ Bollworm (<i>Heliothis spp</i>) Leafworms (<i>Spodoptera spp.</i>)	75-100ml/ha in 800-1500 L of water/ha OR 8-10ml per 100 L water	Spray only when the pests are noticed. Repeat the application after 7-14 days, depending on re-infestation and pest pressure.

Resistance Management

To prevent possible resistance development against Flubendiamide, BELT® SC 480 should be used in alternation with insecticides of other modes of action/classes especially biological insecticides e.g. *Bacillus thuringiensis* (Bt).

Crop Compatibility

BELT® SC 480 is well tolerated by crops listed in the label when used as recommended.

Note: As the different varieties of ornamentals may differ in their sensitivity to chemical spray, users are advised always to check for crop tolerance by first treating a few plants before large scale application is undertaken.

Summary of BELT® SC 480 Attributes

FEATURES	BENEFITS
<ul style="list-style-type: none">• Novel chemistry with unique mode of action.• Provides long lasting efficacy.• Excellent margins of safety.• IPM and IRM suited.• Immediate cessation of feeding.• Broad application window, high usage flexibility.• Outstanding control of all important lepidoptera.• Short PHI's	<ul style="list-style-type: none">• New target site, controls Lepidoptera• Fewer applications required.• Crop, environment, worker/operator.• No cross resistance.• Non-toxic to key beneficial insects.• Acceptable for all Food Chain protocols• Maximum crop protection/retention.• Easier crop management• High return on investment.• Allows for greater flexibility in pest management.

A PRODUCT OF



Bayer CropScience

NOTE: Pesticide users are reminded to read and follow the instructions on the product label for details of pesticide use before application at all times.

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Unleash
the new
power
for control of caterpillars!

