

Bioprotec CAF

Insecticide

TECHNICAL SHEET

Apple

Insecticide for the management of the Oblique Banded caterpillar in orchards



FEATURES AND BENEFITS

- ✓ **Biological insecticide approved by Health Canada (PMRA)**
- ✓ **Effective reduction** of Oblique Banded caterpillar populations
- ✓ **Keeps caterpillar populations below intervention level** for the first and second generations
- ✓ **Minimal REI**, re-entry when spray is dry
- ✓ **Safe** for use with beneficial and pollinators *
- ✓ **Resistant** to UV light
- ✓ **Minimum risk** of resistance
- ✓ **Perfect integration** in your IPM program
- ✓ **Approved** for organic agriculture

* Safe for use with beneficial organisms and pollinators when used according to label instructions.

USE PATTERN

CROP	PEST	RATE	FOLIAR SPRAY VOLUME	APPLICATION TIMING
Apple	Leafrollers (Fruit tree, European, Oblique-banded, Three-lined), Fruit worms	2,8 - 4,0 L/ha	Apply using an airblast orchard sprayer in 600-800 L water/ha	1Apply in 600-800 L water/ha at pink stage and, if populations are heavy. high volume sprayers, add recommended volume of Bioprotec CAF Aqueous Biological Insecticide to water at a mix ratio of 1:50 to 1:500. Weekly applications may be necessary if egg hatch is asynchronous
	Winter Moth	0,7 L/ha For use in combination with Ripcord 400 EC (12.5 ml/ha) or Cymbush 250 EC (28 ml/ha.)	Maximum 1500 L/ha	

TECHNICAL SPECIFICATIONS

- **Canadian registration number: 26854**
- **Active ingredient** : Btk (*Bacillus thuringiensis ssp. Kurstaki*)
- **Packaging** : One (1) case = 2 x 10L
- **Formulation type** : Liquid
- **Chemical group** : 11B2 (Bt microbials)
- **PHI** : 0 day
- **REI** : When spray is dry
- **Shelf life**: 18 months at 20° C

Updated : 21/12/2017

MODE OF ACTION

After ingestion of a sufficient dose, there is mouth-parts and gut paralysis of the insect, followed by septicemia. Larvae cease feeding within a few hours and death occurs within 2 - 5 days.

RECOMMENDATIONS FOR OPTIMAL RESULT

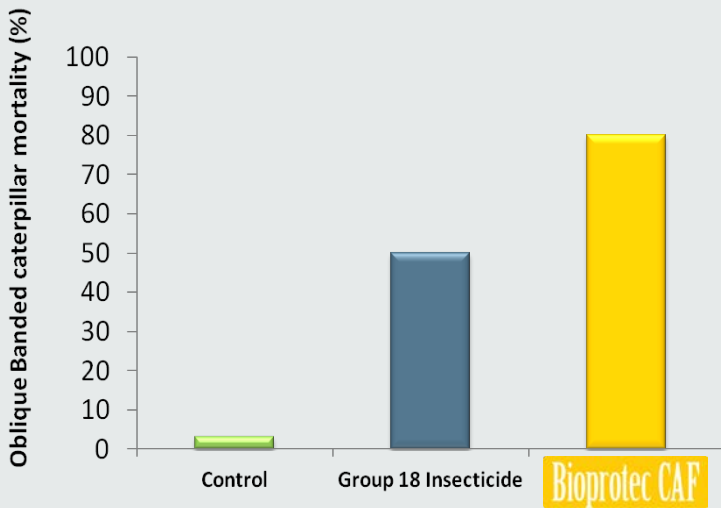
- The leaves on which the larvae feed must be completely covered
- Apply at pink bud and petal fall when populations are high
- The product is more effective after hatching of the eggs, during the active feeding phase of the larvae
- The product is most effective when no rain occurs in 24-48 hours after application, to allow the larvae to ingest a lethal amount of insecticide
- Repeat treatment as needed at seven days interval need if egg hatch is desynchronized

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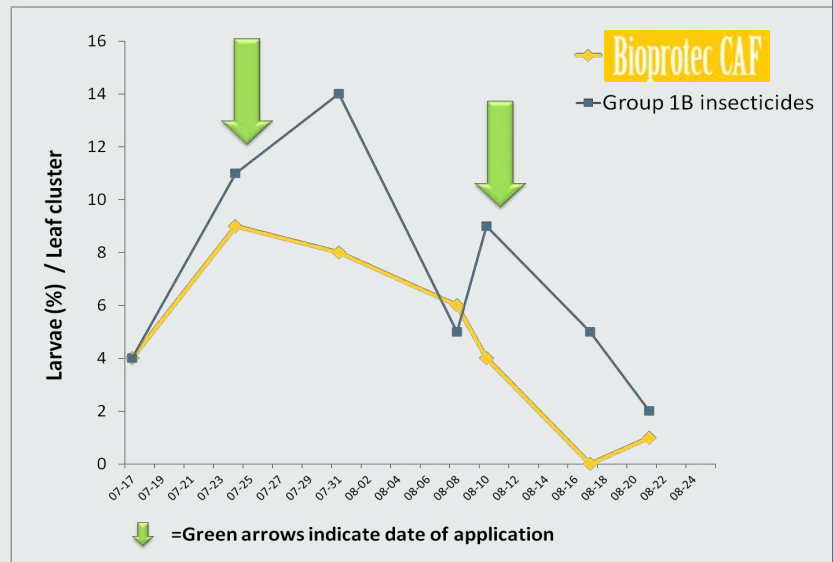
RÉSULTS

Mortality of the first generation of Oblique Banded caterpillar



Effect of Bioprotec-CAF on mortality rate of the first generation of the Oblique Banded Caterpillar (OBC). AEF Trial-99. Tests were carried out in orchards of St. Paul d'Abbotsford, Qc., on Lobo and Cortland varieties. Treatments applied with air pressure sprayer. Total water volume: 600L/ha.

Second generation population of Oblique Banded caterpillar



Effect of Bioprotec-CAF on second generation population rates of OBC. AEF Global Tests. Tests were carried out in orchards of St-Paul d'Abbotsford, Qc. Treatments were applied with an air pressure sprayer. Total water volume: 600L/ha.



Oblique Banded caterpillar

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Contact your local ag-retailer for more information

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