# **Axalion** Active

### Insecticide



## Introducing Axalion® Active

The new active ingredient insecticide, Axalion Active, unveils a new class of chemistry with a new mode of action, targeting the control of many problematic piercing and sucking pests, including superior whitefly control. Uses for Axalion include fruits, vegetables, soybeans, legumes, cotton, cereals, beets, oilseed rape and ornamentals.

Thanks to its predictable, balanced and reliable performance, Axalion is an essential part of a farmer's toolbox for Integrated Pest Management (IPM), resulting in healthier plants, better yields and higher quality production. When applied according to the label, Axalion offers growers highly efficacious control of many problematic piercing and sucking pests.



## **Key features and benefits**

#### Broad spectrum control of piercing and sucking pests

√ Whiteflies
 ✓ Leafhoppers/jassids
 ✓ Scales
 ✓ Psyllids

✓ Aphids
✓ Thrips
✓ Mealybugs
✓ Russet/rust mites (species specific)

#### New mode of action

Axalion inhibits the basal function of the chordotonal organs, which quickly causes the target insects to become uncoordinated and unable to feed (therefore, they are incapable of transmitting viruses and bacteria), until they eventually die. Based on research and discovery by BASF, Axalion is the only representative of Insecticide Resistance Action Committee (IRAC) Group 36, targeting a new site in chordotonal organs. It is also the only representative of a unique insecticidal class of chemistry, the Pyridazine amides (or Pyridazine pyrazolecarboxamides).

#### Green peach aphid control on spinach





#### No known cross resistance

Axalion is highly potent on multiple life stages, and, due to its novel mode of action, it also controls pests that have developed resistance to existing chemistries. Therefore, Axalion is an excellent partner for insect resistance management programs. Axalion helps growers to successfully safeguard their crops while strengthening the longevity of existing tools for complete insect pest management programs.

PHI: Low

Reentry interval: Reentry once dried

**Application methods:** 

√ Greenhouse 
√ Foliar spray 
√ Drench and drip 
√ Drone

<sup>\*</sup> Based on BASF internal trial data from 2018 to 2022

## The new benchmark for whitefly control

#### Silverleaf whitefly control on eggplant





#### Flexibility in timing and application

The systemic properties of Axalion® offer growers a wide window of application timing during early to late growth stages. This includes late growth stage spraying when canopies are already closed and reaching target pests would normally be a challenge. Axalion provides long-lasting residual control due to systemic properties.

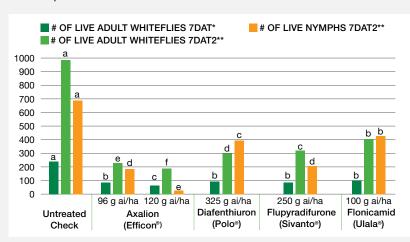
#### Works harmoniously with beneficials

Axalion is highly compatible with non-target organisms and beneficial insects, including pollinators, when applied according to label instructions.

## Biology activity of Axalion Active and commercial competitors for control of silverleaf whitefly in eggplant: open field trial

#### Population control of silverleaf whitefly (Bemisia tabaci)

Reduction of the population as compared to the untreated check and competitive commercial standards



PEST	ASSESSMENT	ADULTS 7DAT	ADULTS 7DAT2	NYMPHS 7DAT2
Silverlead whitefly (Bemisia tabaci)	# of live whitefly in check	236	987	692

Quick adult mortality, within three days after treatment, was observed with Efficon® Insecticide, powered by Axalion Active. Efficon delivered excellent subsequent generational control, as denoted by number of viable nymphs. When compared to the untreated check and competitive commercial standards, Efficon activity for adult knockdown and subsequent population was reduced.

Efficon resulted in enhanced crop vigor perceived as clear visual differences between the treated plots at the conclusion of trial.

Means followed by the same letter do not significantly differ (P=0.05, Student-Newman-Keuls)

\*7DAT = 7 Days After Treatment \*\*7DAT2 = 7 Days After Second Treatment

Source: BASF Trial 2019. Trial ID: DEV-I-2019-AX-202-A-01.0-IN-IN0-A12 Crop: Eggplant; Target Pest BEMITA; water volume; 500L/Ha; Applications 2; 45 plants per plot (26.5 m), 1 leaf per plant, 3 replicates (plots) per treatment; Date: March 1, 2019; Randomized Complete Block, Crop 40 days after planting at start of trial.

**Note:** Applications were conducted as curative foliar spray applications wherein whitefly population was naturally occurring and very high throughout course of the trial.

This document provides general information about Axalion® Active insecticide. Commercial sales of Axalion are projected to begin in 2023

Always read and follow label directions. If you have any further questions or need additional support, please contact your BASF sales representative.

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