

Attitude_{80SC}

Attitude 80SC is a powerful, highly effective contact and systemic insecticide, with stomach action, for the control of a wide range of pests on vegetables, ornamentals and broadacre crops.

Attitude 80SC is an innovative, suspension concentrate insecticide for the control of Leafminers, Lepidoptera and sucking pests

Active Ingredients

**Acetamiprid 50 gr/Lt +
Indoxacarb 30 gr/Lt**

Attitude 80SC effectively combines active ingredients with different and highly complementary mode of action.

- Indoxacarb is a new class of chemistry with a new mode of action, making it an important new tool in resistance management programs.

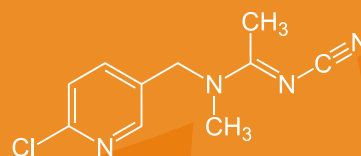
Cross resistance to other insecticide groups is highly unlikely to occur. Indoxacarb is characterized as a "Reduced Risk and Organophosphate (OP) Alternative Pesticide" by the EPA-USA.

What exactly does that mean?

- Low impact on human health
 - Low toxicity to non-target organisms (birds, fish, plants)
 - Low potential for groundwater contamination
 - Low application rates
 - Low pest resistance potential
 - Compatibility with Integrated Pest Management practices
- **Acetamiprid** as a Neonicotinoid systemic insecticide acts on the nervous system of insects with very low toxicity to mammals and minimal environmental impact and therefore, considered a reduced-risk pesticide.



Acetamiprid



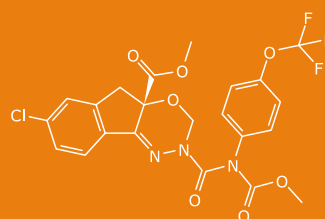
Acetamiprid is a systemic, neonicotinoid insecticide, with long residual action, intended to control mainly sucking insects on a wide range of crops.

Molecular Formula: C₁₀H₁₁ClN₄

Mode of Action: Nerve action as a nicotinic acetylcholine receptor (nAChR) agonist.

IRAC Group: 4A

Indoxacarb



Indoxacarb belongs to the Oxidiazine chemical group.

Indoxacarb is a new class of chemistry with a new mode of action.

Molecular Formula: C₂₂H₁₇ClF₃N₃O₇

Mode of Action: Interferes with a group of ion channels by inhibiting the flow of sodium ions into nerve cells.

IRAC Group: 22A



Field Trials

Extensive field research has proven the increased efficacy of Attitude 80SC.

In Belgium during 2014 and 2015, Attitude 80SC was extensively tested for the control of the Whiteflies and Leafminers in tomatoes.

The results are depicted in the following graph:

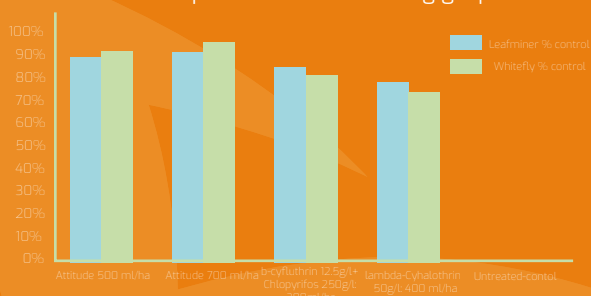
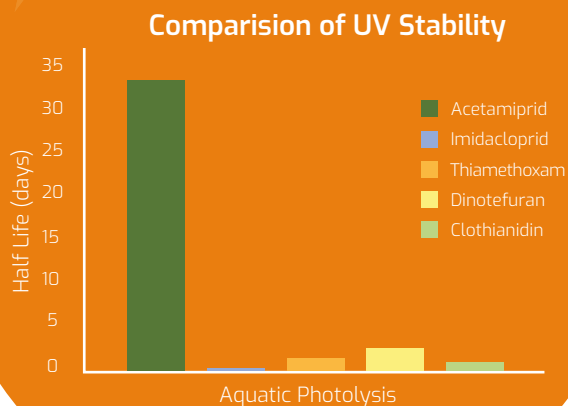


Figure: Mean % control of Whiteflies and Leafminers in tomato compared to untreated-control.

UV Stability

Different types of neonicotinoids have unique UV resistance, water solubility, binding with soil & pest spectrum characteristics. Acetamiprid is the most stable to UV radiation when compared to the rest, making it the most suitable for foliar application:



Data obtained from published EPA registration documents

Advantages

- New mode of action
- Stable under adverse environmental conditions
- Broad spectrum of activity
- Contact and systemic action
- Synergistic effect of the 2 Active Ingredients
- Suitable for use on a wide range of crops
- Easily absorbed in plant tissues and digested by the target pest
- Not phytotoxic when used as directed

Directions for Use

- **Attitude 80SC** should be mixed with water to be ready for use. It may be applied with any type of spraying equipment.
- Ensure thorough and even coverage of the canopy.

Rate of Application

Crop	Disease	Rate
Tomatoes	Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.3-0.5 lt/ha
Potatoes	Colorado beetle, Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.3-0.5 lt/ha
Vegetables	Diamond-back moth, Leafminers, Lepidoptera pests including Pieris sp., Aphids, Whiteflies, Thrips	0.4-0.8 lt/ha
Soybean	Aphids, Whiteflies, Leafminers, Thrips, Lepidoptera pests including Heliothis sp.	0.4-0.6 lt/ha
Cotton	Lepidoptera pests including Pink and Red Bollworm, Aphids, Whiteflies, Thrips	0.3-0.4 lt/ha
Citrus	Leafminers, Mealybugs, Aphids, Whiteflies, Jassidae, Thrips	0.6-0.8 lt/ha
Coffee, Cocoa	Leafminers, Lepidoptera pests, Aphids, Thrips	0.3-0.5 lt/ha
Ornamentals	Leafminers, Mealybugs, Aphids, Whiteflies, Jassidae, Thrips	0.6-0.8 lt/ha
Maize	Maize stalk borer, Thrips, Aphids, Leafminers	0.4-0.6 lt/ha
Cereals (Wheat, Barley)	Lepidoptera pests, Cutworms, Armyworm, Leafminers, Russia Aphids	0.3-0.5 lt/ha
Chickpeas	Helicoverpa armigera (African Ballworm), Aphids, Whiteflies	600-800 ml/ha

Important Note:

The indicated crops and recommended rate of application mentioned in this Product informative sheet may not be applicable in the country where the product is intended to be used. User must refer and use the product only as per the official registration at the country of use and the approved uses and rates by the authorized authorities. The supplier will not be responsible or liable if the product is used on crops which are not listed on the official label as approved by the ministry of agriculture at the country of use.

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