Thrips

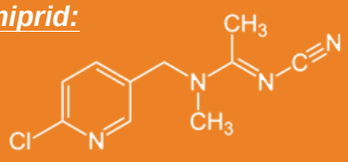
Whiteflies

Leafminers

Attitude 80SC™

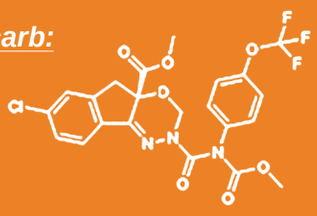
Active Ingredients: Acetamiprid 50 gr/Lt + Indoxacarb 30 gr/Lt

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: $C_{10}H_{11}ClN_4$
- Mode of Action: Nerve action as a nicotinic acetylcholine receptor (nAChR) agonist.
- IRAC Group: 4A

Inodxacarb:



- Indoxacarb belongs to the Oxidiazine chemical group.
- Indoxacarb is a new class of chemistry with a new mode of action.
- Molecular Formula: $C_{22}H_{17}ClF_3N_3O_7$
- Mode of Action: Interferes with a group of ion channels by inhibiting the flow of sodium ions into nerve cells.
- IRAC Group: 22A

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

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 environmen-tal impact and therefore, considered a reduced-risk pesticide.

PIS-ATTITUDE80SC-ZIMB_EN_SIN-20200330

Supplier:
Sineria
Sineria Holland BV
Randwycksingel 20 - A015
6229 EE Maastricht, The Netherlands
www.sineria.com

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:

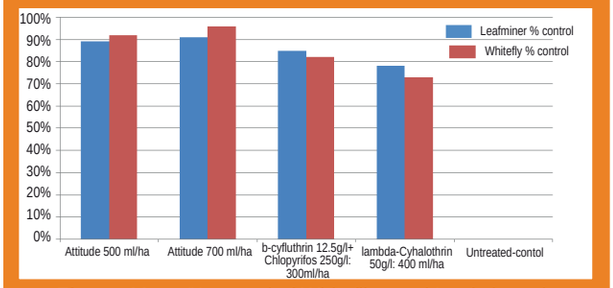
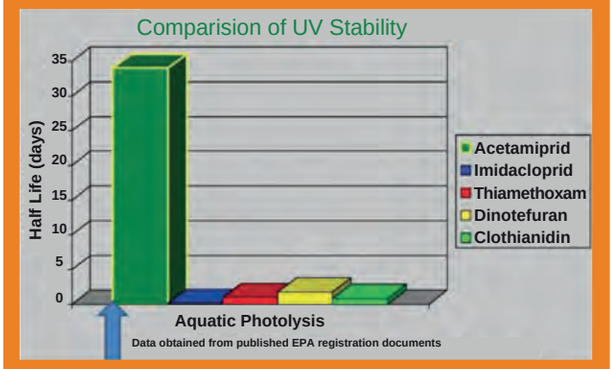


Figure: Mean % control of Whiteflies and Leafminers in tomato compared to untreated-control

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:



Attitude 80SC™ 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 proper user

- **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

CROPS	PESTS	APPLICATION RATE
Tomatoes	Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.3-0.5 Lt/Ha
Potatoes	Colorado beetles, 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
Soybeans	Aphids, Whiteflies, Leafminers, Thrips, Lepidoptera pests including *Heliothis* sp.	0.4-0.6 Lt/Ha
Cotton	Lepidoptera pests including Pink and Red Bollworms, 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, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.4-0.5 Lt/Ha
Tobacco	Armyworms, Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.5-0.8 Lt/Ha
Maize	Maize stalk borers, Thrips, Aphids, Leafminers	0.4-0.6 Lt/Ha
Cereals (Wheat, Barley)	Lepidoptera pests, Cut-worms, Armyworms, Leafminers, Russian Aphids	0.3-0.5 Lt/Ha

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