



# Thunderbolt 80SC™

**Thunderbolt 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.**

- Thunderbolt 80SC™ is an innovative, suspension concentrate insecticide for the control of Leafminers, Lepidoptera and sucking pests
- Thunderbolt 80SC™ effectively combines active ingredients with different and highly complementary mode of action.



## Active Ingredients

Indoxacarb 30 gr/ Lt + Acetamiprid 50 gr/ Lt

## Chemical Information

### Indoxacarb

- 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

### 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

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.





## 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

**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.

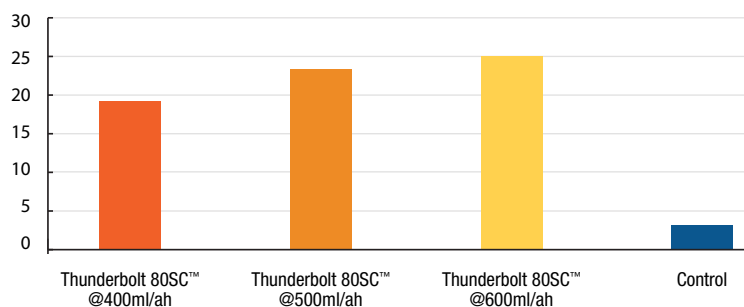
## Rate of Application

CROPS	PESTS	APPLICATION RATE	RATE PER 16L WATER
Tomatoes	Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.3-0.5 lt/ha	30 - 40 ml
Potatoes	Colorado beetles, Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.3-0.5 lt/ha	30 - 40 ml
Vegetables (Cabbage, Broccoli, Cucumbers, Squash, Lettuce)	Diamond-back moth, Leafminers, Lepidoptera pests including Pieris sp., Aphids, Whiteflies, Thrips	0.4-0.8 lt/ha	30 - 40 ml
Soybeans	Aphids, Whiteflies, Leafminers, Thrips, Lepidoptera pests including Heliothis sp.	0.4-0.6 lt/ha	30 - 40 ml
Cotton	Lepidoptera pests including Pink and Red Bollworms, Aphids, Whiteflies, Thrips	0.3-0.4 lt/ha	30 - 40 ml
Ornamentals	Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.4-0.5 lt/ha	30 - 40 ml
Tobacco	Armyworms, Leafminers, Lepidoptera pests, Aphids, Whiteflies, Thrips	0.5-0.8 lt/ha	40 - 50 ml
Maize	Maize stalk borers, Thrips, Aphids, Leafminers	0.4-0.6 lt/ha	30 - 40 ml
Cereals (Wheat, Barley)	Lepidoptera pests, Cutworms, Armyworms, Leafminers, Russian Aphids	0.3-0.5 lt/ha	30 - 40 ml

## Field Trials

Extensive field research has proven the efficacy of Thunderbolt 80SC™ against Stalk borers in Maize. In Kenya (2019) the following results were obtained:

Stalk borers mortality under different treatments



Disclaimer: This information and all further technical advice is based on our present knowledge and experience and approvals from the registration authorities. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. In the event of any discrepancies between the information stated herein or any other information source and the information stated on the product label, the information stated on the product label will prevail. The customer/user is not released from the obligation to conduct careful inspection and testing of products. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of the customer on small scale plot. Reference to trade names use by other companies is neither a recommendation nor does it imply that similar products could not be used.



**KENAGRO LTD,**  
Agias Fylaxeos & Zinonos Rossidi 2,  
2/F, P.C. 3082 Limassol, Cyprus  
E-mail: info@kenagroltd.com