

**KEEP LOCKED AWAY AND OUT OF REACH OF CHILDREN  
READ THE LABEL (AND LEAFLET) BEFORE USE**

**Hazard statement:**  
Suspected of damaging fertility  
Very toxic to aquatic life  
Very Toxic to aquatic life with long-lasting effects

**Manufactured by**  
Syngenta Crop Protection, Basel Branch  
Rosentalstrasse 67  
CH4002 Basel Switzerland

**Distributor**  
Syngenta Zambia Limited  
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**Emergency Call Number:** Swiss Toxicological Information Centre (24 h) +41 44 251 51 51 or the Information Centre: +260211244766  
**ZEMA Registration #:** LSK/PTS/04956/Z03/2023:IP-PN:11315  
**Date of manufacturer:**  
**Date of expiry:**

**Precautionary Statement:**  
**Prevention:**  
Obtain special instructions before use.  
DO NOT handle until all safety precautions have been read and understood.  
Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
IF exposed or concerned: Get medical advice/attention.  
Collect spillage.  
**Disposal:**  
Dispose of contents/ container to an approved waste disposal plant.

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**Laudento™**  
**200 SC**  
GROUP 30 INSECTICIDE

**syngenta.**

**PLINAZOLIN® technology**  
Suspension concentrate (SC)  
A non-systemic broad spectrum insecticide for control of Lepidoptera spp., (Tuta absoluta and Phthorimaea operculella), Leafminer (Liriomyza spp.), and Red spider mite (Tetranychus urticae spp) on potatoes and tomatoes, for Bollworm (Helicoverpa armigera) and Green looper (Chrysodeixis eriosoma) control in Soyabean, and DBM (Plutella xylostella) in cabbage.  
PLINAZOLIN® technology denotes the technical active ingredient Isocycloseram.  
LAUDENTO® and the Syngenta logo are trademarks of a Syngenta Group Company  
**ACTIVE INGREDIENT CONTENT :** 200 g/L isocycloseram

**300 ml**

여는곳

◎ 자세한 사항 라벨을 읽어주세요.

**PRODUCT INFORMATION**

**Mode of action**  
Isocycloseram acts on the insect nervous system as a GABA-gated chloride channel allosteric modulator. It binds to a novel site in the GABA receptors in the synapses and prevents them from opening. As a result, the relaxation process cannot work properly and muscles contract uncontrollably, leading to cramp, and eventually death of the insect. It works on all insect stages and acts by contact and ingestion.

**Operator Safety/PPE:**  
Avoid getting product in contact with skin, eyes or clothing.  
**DO NOT** inhale vapour or spray mist.  
Wash hands and face before eating, drinking or smoking.  
If you feel unwell stop work immediately, apply first aid measures and contact a doctor or poisons information centre.  
After work wash entire body thoroughly and change clothing.  
Wash work clothing and protective equipment before re-use.  
For mixing and loading wear long-sleeved cotton or cotton polyester shirt and long cotton or cotton polyester trousers or an all-in-one cotton or cotton polyester coverall; socks and sturdy footwear; impermeable gloves; face shield  
For application wear long-sleeved cotton or cotton polyester shirt and long cotton or cotton polyester trousers or an all-in-one cotton or cotton polyester coverall; socks and sturdy footwear; impermeable gloves; face shield; hat or cap.

**First Aid and Medical Advice:**  
If you begin to feel unwell, call a doctor, Syngenta emergency number or poison control centre and apply first aid measures as described below. Have the product container, label or Safety Data Sheet with you when calling or when going for treatment.

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manufacturer's guidelines. Ensure any rinsate does not contaminate water sources. The rinsate should be applied to a previously under dosed or untreated area of the field or store in a holding tank for disposal by contractor or through a chemical treatment system (e.g. Heliosec, Bio Bed, Sentinal etc.).

**Shelf-life**  
The product is stable for at least three years from the date of manufacture.

**Legal Aspects**  
Before applying the product read the attached package leaflet.

**Users Risk**  
The user bears the risk for damage resulting from factors beyond the manufacturer's control. All recommendations for use of the product are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the application, use, storage or processing of the product, the manufacturer cannot accept responsibility, therefore.

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**Manufacturer**  
Syngenta Crop Protection AG, Basel, Switzerland

**10. DO NOT** let the spray mixture stand overnight in the spray tank.  
**11. Flush** the spray equipment thoroughly following each use and apply rinsate to a previously under dosed or untreated crop area.

**Application**  
If using a handheld spray device do not walk through treated area.  
**DO NOT** spray during the hot hours of the day if the foliage is wet or if rain is imminent.  
**DO NOT** overdose by overlapping applications or by exceeding the recommended rate.

**Ground Application equipment and nozzle choice**  
Nozzle size and type is determined by required application volume (influenced by required flow rate, speed, and pressure) and spray quality required. Refer to nozzle manufacturers guidelines for recommended working pressures and droplet sizes.  
Spray quality for insecticides should be fine to medium, but if drift is a potential problem use anti drift nozzles producing larger droplets. In some situations, an increase in spray volume may be required when using very large droplets.  
Flatfan nozzles are recommended for a broadcast spray with a boom sprayer as they produce coarser droplets which are less prone to drift and produce a more homogeneous covering of the crop accurate uniform boom height is critical for providing a uniform spray.

**Cleaning of equipment**  
Follow local guidelines for spray solution disposal if none exist follow the guidelines below.  
**DO NOT** drain leftover spray solution.  
Spray excess spray solution onto a suitable crop, avoiding exceeding maximum dose recommendation. Alternatively collect in a holding tank for disposal by contractor or through a chemical treatment system (e.g. Heliosec, Bio bed, Sentinal etc.).  
Cleaning of the spray equipment where possible should be carried out in the field after the last application. Using clean water - the sprayer should be washed thoroughly inside and out following the

may be applied successively but only when targeting a single generation of the target insect.  
• If more than one application of an insect control agent is required to control successive generations of the target pest, then alternative insecticides with different modes of action should be utilized in rotation with **LAUDENTO® 200 SC**.  
• Where possible incorporate alternative methods of pest control as part of an integrated pest management (IPM) approach.

**Rotational Crop Restrictions**  
Apply no more than 360 grams of isocycloseram per hectare per calendar year.

**Equipment**  
This product can be applied by aeroplane, boom sprayer, knapsack, mist blower, air blast sprayer. Spray equipment should be checked for leaks before each use and repairs made if leaks are found. Spray nozzles should be replaced periodically to ensure efficient application of the spray. Set up equipment to provide accurate, uniform, and thorough coverage of the target crop and minimize potential for spray drift and leaf runoff. To ensure the best economical use of the product, calibrate the sprayer before each use.

**Mixing the product**

1. Wear the appropriate personal protective equipment.
2. Thoroughly clean spray equipment before using this product.
3. Prepare no more spray mixture than is needed for the immediate application.
4. Keep product container tightly closed and out of reach of bystanders when not in use.
5. Add about one half of the required amount of water to the sprayer or mixing tank.
6. Measure out the required amount of product and add to the spray tank and agitate.
7. Thoroughly clean measuring equipment and rinse empty containers and add the rinsate to the spray tank.
8. Add the remaining amount of water.
9. Continue to agitate the spray solution before and during application.

Soya beans	Bollworm ( <i>Helicoverpa armigera</i> )	1-2	7-14	300	200-400	21
	green looper ( <i>Chrysodeixis eriosoma</i> )	1-2	7-14	300	200-400	
Cabbage	DBM ( <i>Plutella xylostella</i> )	1-2	7-10	150	200-400	7

• The addition of Complement Super at 100ml/ha can help to enhance the efficacy.  
§ For application during flowering, the general precaution always applies: **DO NOT** use while bees are actively foraging.  
For aerial application minimum water volume of 30l/ha is required.

**Resistance management:**  
**LAUDENTO® 200 SC** contains the active ingredient isocycloseram and is a Group 30 insecticide. The repeated use of **LAUDENTO® 200 SC** and insecticides belonging to Group 30 against successive generations of the target insects may result in the selection of insects which are resistant to the insecticide. As a result, there may be partial or total loss of control of the insect population. All Group 30 insecticides share the same biological site of action, and it is assumed that resistance which has evolved to one insecticide within a group will also affect other insecticides within the same group.  
To avoid or delay the selection of resistant insects, Group 30 insecticides should be used as part of an insecticide resistance management (IRM) strategy which incorporates the following:  
• Insecticides from the same mode of action group should not be used to treat successive generations of the target pest.  
• Multiple applications of **LAUDENTO® 200 SC** and other insecticide containing group 30 insecticides

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Unless otherwise stated, all recommendations are for foliar spray use on the crop.

**Recommendations:**

Crop	Pests or Group of pests controlled	Number of applications (Min- Max)	Application intervals in days (Min- Max)	Application Product rate in ml/ha (Min- Max)	Spray Volume L/ha (Min- Max)	Pre-harvest interval (days)
Potatoes	Leafminers ( <i>Liriomyza spp.</i> )	1-2	7-14	150	200-400	7
	Potato tuber moth ( <i>Phthorimaea operculella</i> )			300		
	Red spider mite ( <i>Tetranychus urticae</i> )			150		
Tomatoes	Tomato leafminer ( <i>Tuta absoluta</i> )	1-2	7-14	200	200-1000	1
	Leafminers ( <i>Liriomyza spp.</i> )			150		
	Red Spider Mite ( <i>Tetranychus urticae</i> )			150		

**Storage and disposal:**  
**KEEP LOCKED AWAY AND OUT OF REACH OF CHILDREN**  
Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight and away from food and animal feed.  
**DO NOT** reuse this container for any other purpose.  
Triple rinse the empty container before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If an empty container collection program is available, replace cap and return clean containers to recycler or designated collection point. If no local empty container collection program available, then break, puncture or crush and bury empty containers in an approved local authority landfill. If no landfill is available, bury the containers below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant government regulations. **DO NOT** burn empty containers unless it is in an industrial incinerator specifically designed for disposal of hazardous substances.

**Accidental Spills**  
For small spills: Spread absorbent material such as sand, friable soil or vermiculite over the spill. Collect up spilt material thoroughly and place it in a waste bin or in a plastic bag and dispose of the collected waste according to local regulation. **DO NOT** flush into water bodies or sewer system.  
For large spills: Refer to the Safety Data Sheet.  
Note: Spilt product must not be re used.

**DIRECTIONS FOR USE:**  
**Restrictions:**  
Apply no more than 360 grams of isocycloseram per hectare per calendar year.  
**DO NOT** apply if rain or frost is expected or if the crop is wet.  
**DO NOT** spray crops under stress.  
**DO NOT** spray plants in flower while bees are foraging.

**Inhalation:** Move the victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a doctor or poison control centre immediately.

**Skin contact:** Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a doctor. Wash contaminated clothing before re-use.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. **DO NOT** induce vomiting.

Symptoms of poisoning: No information available.  
Medical Advice: There is no specific antidote available. Treat symptomatically.  
**Note:** Never give anything to an unconscious patient and never induce vomiting.  
**Re-entry interval:** Do not enter treated area until the spray has dried. If earlier entry is required then wear a long-sleeved shirt, trousers and impermeable footwear, hat, and impermeable gloves.

**Environment and Wildlife:**  
Very toxic to fish and aquatic organisms. **DO NOT** contaminate water bodies with this product or used container.  
For terrestrial and/or aerial applications respect the 30m (terrestrial) and 250m (aerial) non-spray buffer zone related to water bodies, roads and human and animal populations.  
**DO NOT** contaminate water bodies when cleaning equipment or disposing of equipment wash water or rinsate. **DO NOT** apply under weather conditions, or from spraying equipment, that may cause spray to drift onto adjacent areas, particularly water bodies.  
Toxic to bees. **DO NOT** use where bees are actively foraging (apply early morning or late afternoon). **DO NOT** allow spray drift to flowering weeds, hedges or flowering crops in the vicinity of the treatment area.