BEFORE USING THIS PRODUCT READ ENTIRE LABEL CAREFULLY

Selecron®500EC

1. WARNINGS

Allow the following number of days between last treatment and harvest:

**Brussels sprouts** .................................................. 10 days
**Cabbage, cauliflower** ............................................ 7 days
**Cotton** ................................................................... 21 days
**Potatoes, onions** .................................................. 14 days
**Tomatoes** ............................................................. 4 days

**NOTE:** Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits, but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, Maximum Residue Limits and recommended withholding periods.

- Handle with care.
- May cause skin and eye irritation.
- **Flammable:** Do not store or use near open flame.
- Poisonous if swallowed, inhaled or absorbed through the skin.
- Toxic to fish, bees and wildlife.
- Store in a cool place.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals.
- In case of poisoning contact a Doctor and make this label available to him.
- **Re-entry:** Do not enter treated area within 1 day after application unless wearing protective clothing.
- **Aerial application:** Notify all inhabitants in the immediate vicinity of the area to be sprayed and issue the necessary warnings. Do not spray over or allow the drift to contaminate water or adjacent areas.

1.1 ENVIRONMENTAL AND SAFETY PRECAUTIONS

1.1.1 **BEES:**

- Toxic to bees. Do not use when bees are actively foraging in crops.
- **DO NOT** apply SELECRON 500 EC to flowering crops.
- **DO NOT** apply SELECRON 500 EC where flowering weeds are abundant in the crop. Flowering weeds can be destroyed by mowing, diskimg, mulching, flailing or applying a labeled herbicide.
- Do not allow SELECRON 500 EC spray drift to flowering weeds, hedges or flowering crops in the vicinity of the treatment area.
- Do not apply SELECRON 500 EC to plants covered with honeydew or where high numbers of aphids are present.

1.1.2 **AQUATIC ORGANISMS:**

- Highly toxic to fish and crustaceans. Strictly avoid contamination of water bodies by drift or by run-off. Application of unsprayed buffer strip of 50 m is recommended to protect water bodies from spray drift and run-off. Prohibit application to saturated soils or when conditions favour runoff from the treated area.

1.1.3 **BIRDS:**

- Toxic to birds. Do not use when birds are actively foraging in crops. Avoid sprinkling/irrigation of the crop until one day after application.

1.1.4 **PPE:**

- Wear boots, overall, gloves, face shield and cap. Avoid sprinkling/irrigation of the crop until one day after application of SELECRON 500 EC

Consult with your local Syngenta representative for additional safety practices.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not guarantee that it will be effective under all conditions. The activity and effect may be affected by factors such as abnormal soil, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the pest, against the remedy, as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, and the environment or harm to man or animal, or for lack of performance of the remedy concerned due to failure by the user to follow the label instructions, or to the occurrence of conditions which could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS

- Do not inhale the spray mist or allow it to come into contact with the eyes.
- Wear full protective clothing: overalls, rubber boots, gloves, face shield and face mask.
- Wash with soap and water immediately after use or in the event of accidental skin contact.
- Wash contaminated clothing after use.
- Do not eat, drink or smoke while mixing or applying the product or before washing hands and face.
- Avoid drift of spray onto other crops, grazing, rivers, dams and areas not under treatment.
- Clean applicator after use. Dispose of rinsate where it will not contaminate crops, grazing, rivers, dams and boreholes.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Rinse the empty container three times with a volume of clean water equal to a minimum of 10 % of the container. Add the
is a group A droplet coverage of 30 – 40 and other group – – with other products A volume of 30 may be applied with a mistblower as well – neutral reaction. See point 4 “USE RESTRICTIONS”.

First aid and medical treatment:
Eye contamination: Hold eyelids apart and pour in a gentle stream of water for 10 - 15 minutes. Go to a doctor.
If product is swallowed, do not induce vomiting.
Take person and this product label to a doctor at once for medical treatment.

Medical treatment: If gastric lavage is performed, take care to prevent aspiration of gastric contents. Consider administration of activated charcoal and a laxative. Treat symptomatically.

3. RESISTANCE MANAGEMENT
For resistance management, SELECRON 500 EC is a group code 1B insecticide. Any insect population may contain individuals naturally resistant to SELECRON 500 EC and other group code 1B insecticides. The resistant individuals can eventually dominate the insect population if these insecticides are used repeatedly and exclusively in programs. These resistant insects may not be controlled by SELECRON 500 EC or any other group code 1B insecticides.

To delay insecticide resistance:
• Avoid exclusive repeated use of insecticides from the same insecticide group code. Alternate or tank mix with products from different insecticide group codes.
• Integrate other control methods (chemical, cultural, biological) into insect control programs.

Syngenta cannot accept responsibility for any losses that may result from the failure to control pests resistant to SELECRON 500 EC.

For specific information on resistance management contact the registration holder of this product.

4. USE RESTRICTIONS
THE USE OF THIS PRODUCT CONTRARY TO RECOMMENDATIONSPOSES CROP RISKS.

SELECRON 500 EC is not compatible with alkaline compounds e.g. Bordeaux, sulphur or cabtab. Do not mix SELECRON 500 EC with any metal containing compounds such as copper, zinc, boron, manganese or magnesium. Do not mix SELECRON 500 EC with any nitrogen containing foliar feeds or apply a foliar feed 2 days prior to or 2 days after a SELECRON 500 EC application.

General:
• Do not treat drought stressed orchards or trees affected by root diseases as leaf drop could occur.
• Use an appropriate acidifier to adjust the pH of the mixing water.

5. DIRECTIONS FOR USE
Use only as directed

5.1 COMPATIBILITY
The compatibility of SELECRON 500 EC with other products may be influenced by the formulation of the products involved as well as the water quality. Since the formulation of other products may change without the knowledge of Syngenta and the water quality may vary from farm to farm, a physical compatibility test should always be carried out prior to application. SELECRON 500 EC is compatible with most insecticides and fungicides of neutral reaction. See point 4 “USE RESTRICTIONS”.

5.2 MIXING INSTRUCTIONS
Replace cap after use.
Prior to mixing SELECRON 500 EC, adjust the pH of the water to 4,5 using a suitable acidifier as recommended. Fill the spray tank almost to capacity with clean water and add the recommended quantity of SELECRON 500 EC to the spray tank while agitating.
Ensure continuous agitation of the mixture in the tank during mixing and spraying.
After each day’s spraying, thoroughly flush out the spraying equipment with clean water.

5.3 APPLICATION TECHNIQUES
5.3.1 Ground application:
SELECRON 500 EC may be applied with a mistblower as well as conventional high volume spraying equipment fitted with hollow cone nozzles that give medium to fine droplets. Calibrate the apparatus before application to ensure that the correct dosage is applied. The distribution of the spray mixture must be uniform throughout the target area.
The following approximate spray volumes are recommended for use in cotton:
Plants shorter than 600 mm .................... 100 /ha
Plants taller than 600 mm ..................... 200 /ha

5.3.2 Aerial application:
Aerial application precautions: Aerial application of this product may only be done by a registered aerial application operator using a correctly calibrated, registered aircraft according to the instructions of SANS 10118 (Aerial Application of Agricultural Remedies).
It is important to ensure that the spray mixture is distributed evenly over the target area and that the loss of spray material during application is restricted to a minimum. It is therefore essential that the following criteria are met:
a) Application parameters:
   - Volume: A volume of 30 /ha is recommended. As this product has not been evaluated at a reduced volume rate, the registration holder cannot guarantee efficacy or be held responsible for any adverse effects if the product is applied aerially at a lower volume rate than recommended above.
   - Droplet coverage: A droplet coverage of 30 - 40 droplets per cm² must be recovered at the target.
   - Droplet size: A droplet spectrum with a VMD of 250 - 280 microns is recommended. Ensure that the production of fine droplets (less than 150 microns - high drift & evaporation potential) is restricted to a minimum.
   - Flying height: The height of the spray boom should be maintained at 3 - 4 metres above the target. Do not spray when aircraft is in a climb, at the top or during a dive, or when banking.

b) Equipment:
Use suitable atomising equipment (hydraulic nozzles or rotary atomisers) that will produce the desired droplet size and coverage but which will ensure the minimum loss of product either through enddrift (within target field) or exodrift (outside target field). The operator must use a setup that will produce a droplet spectrum with the lowest possible relative span.
All nozzles / atomisers should be positioned within the inner 60 % to 75 % of the wingspan to prevent droplets from entering the wingtip vortices.

c) Meteorological conditions:
The difference in temperature between the dry bulb thermometers, of a whirling hygrometer, should not exceed 8°C. The addition of a suitable anti-evaporant is recommended if the VMD of the droplets is less than 200 - 250 microns.
Stop spraying if the wind speed exceeds 15 km/h.
Aerial application of this product must not be done under turbulent, unstable conditions during the heat of the day when rising thermals and downdraughts occur.

Also note that the application of this product under temperature inversion conditions (spraying in or above the inversion layer) may lead to the following:

- Reduced efficacy due to suspension and evaporation of small droplets in the air (inadequate coverage)
- Damage to other sensitive crops and or non-target areas through the movement of the suspended spray cloud away from the target field.

It is essential to obtain an assurance from the aerial spray operator that the above requirements are met.

### 5.4 APPLICATION RATES

<table>
<thead>
<tr>
<th>CROP / PEST</th>
<th>DOSAGE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABBAGE</td>
<td></td>
<td></td>
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<tr>
<td>CAULIFLOWER</td>
<td></td>
<td></td>
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<tr>
<td>BRUSSELS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPROUTS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Green peach</td>
<td>0,75 l/ha</td>
<td>Apply as a full cover spray at the first signs of infestation and repeat at 7 - 10 day intervals. Ensure thorough wetting of the plants. Use a suitable wetting agent.</td>
</tr>
<tr>
<td>aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>False cabbage</td>
<td>1 l/ha</td>
<td>High volume: Apply in 300 - 500 l water/ha, depending on plant size. Mist blower and low volume: Apply in 200 - 300 l water/ha, depending on plant size.</td>
</tr>
<tr>
<td>aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabbage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Lipaphis erysimi)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabbage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Brevicoryne brassicae)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diamond back</td>
<td></td>
<td></td>
</tr>
<tr>
<td>moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(larvae)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Plutella xyllostella)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cabbage semi-looper</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Trichoplusia orichalcea)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greater cabbage moth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Crocidolomia binotalis)</td>
<td></td>
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</tr>
</tbody>
</table>

### COTTON

Cotton pest complex:

**SELECRON 500 EC** must be applied in a weekly spray programme or as recommended by regular scouting.

Spraying based on a scouting:

Scouting is carried out weekly on 24 randomly selected plants from fields up to 15 ha. Spray as soon as the values indicated below are reached.

#### American bollworm (Helicoverpa armigera)

- Twelve eggs or 2 larvae per 24 plants.
- Spray as soon as the threshold of eggs or larvae is reached during a single scouting.
- Spray when the cumulative values over a period of two or more unsprayed weeks exceed the prescribed threshold.

#### Semi-looper

- Up to 12 weeks after plant emergence, spray as soon as 50 % of the leaf surface is damaged. After 12 weeks, spray as soon as 2 larvae per 24 plants are found.

### CROP / PEST | DOSAGE | REMARKS
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Aphis gossypii)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leaf hoppers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Jacobiella spp.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red spider mites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(Tetranychus spp.)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dry land production:** Spray as soon as aphid colonies are found on 6 or more plants out of 24.

**Irrigation:** Spray as soon as the first signs of honeydew are observed.

**Leaf hoppers** Spray as soon as 2 or more insects are found per leaf.

**Thrips** Spray only when high levels of infestation occur.

**Red spider mites** For optimum control of red spider mites, the following scouting method is recommended to establish the degree of infestation:

Examine 1 leaf in the middle region and 2 leaves in the top region of each of 48 plants selected at random for areas up to 15 ha. Allocate one of four code letters (A, B, C or D) to each plant according to the total number of mites found on the three leaves:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Number of mites</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0 mites</td>
</tr>
<tr>
<td>B</td>
<td>1 - 10 mites</td>
</tr>
<tr>
<td>C</td>
<td>11 - 30 mites</td>
</tr>
<tr>
<td>D</td>
<td>more than 30 mites</td>
</tr>
</tbody>
</table>

Allocate a score to each plant on the basis of the above-mentioned code letters (A=0; B=1; C=2; and D=3). Total the score for all 48 plants and calculate the population index per plant. It is essential to keep the mean score per plant as calculated above, below the value of 2 to prevent economic damage to the crop.

<table>
<thead>
<tr>
<th>COTTON PEST COMPLEX</th>
<th>APPLICATION AND PLANT SIZE</th>
<th>DOSAGE / 100 ha</th>
<th>SPRAY VOLUME / ha</th>
<th>DOSAGE / ha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly spray programme:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>American Bollworm</td>
<td>Ground application: &lt;600 mm</td>
<td>1,5</td>
<td>100</td>
<td>1,5</td>
</tr>
<tr>
<td>Semi-loopers</td>
<td>Thrips</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aphids</td>
<td>Red spider mites</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt;600 mm but older than 12 weeks</td>
<td>0,75</td>
<td>200</td>
<td>1,5</td>
</tr>
<tr>
<td>Aerial application: All sizes</td>
<td></td>
<td></td>
<td>30</td>
<td>1,65</td>
</tr>
</tbody>
</table>

**Spray according to scouting:**

**American bollworm** Use the same dosage rates as indicated above for a programme spray.

**Semi-loopers**

**Aphids**

**Leaf hoppers**

**Thrips**

**Red spider mites**
The lower rates are recommended as soon as an infestation of red spider mite is observed or when the population index is below 0.5. The higher rates are recommended when the 0.5 level is exceeded or when two consecutive scoutings show a rapid increase in the mean score per plant. Repeat sprays within 7 days when the mean score per plant increases on subsequent scoutings.

**Important**

Low volume applications of less than 80 l/ha spray mixture, e.g., aerial application, will induce small white scorch marks on the cotton leaves. **THIS PHENOMENON WILL NOT AFFECT THE YIELD.**

**Method of application:**

Use only handgun type high volume spray equipment. Vines must be individually drenched down to ground level.

Use a minimum of 4 l spray mixture per vine.

**Follow-up sprays (Not SELECRON 500 EC):**

Certain vineyards may need a follow-up spray in the summer, due to high pest pressure and poor applications.

As soon as grapevine mealy bug is observed, a suitable, registered chemical should be applied.

**CROP / PEST** | **DOSENG** | **REMARKS**
--- | --- | ---
**ONIONS**
Onion thrips *(Thrips tabaci)* | 1 l/ha | Apply as a full cover spray at the first signs of infestation and repeat at 7 - 10 day intervals. Ensure thorough wetting of the plants. Use a suitable wetting agent.

High volume:
Apply in 300 - 500 l/water/ha.

Mist blower and low volume:
Apply in 200 - 300 l/water/ha.

**POTATOES**
Green peach aphid *( Macrosiphum euphorbiae)* | 0.75 l/ha | Apply as a full cover spray at the first signs of infestation and repeat at 7 - 10 day intervals for as long as the pest occurs. Apply in 300 - 500 l/water/ha. Ensure thorough wetting of the plants.

**Tuber moth *(Phthorimoea operculella)* | 1 l/ha | Apply first spray when 10 - 15 % of growth points are infested and repeat at 10 - 14 day intervals as long as the pest remains active. In case of a heavy infestation, apply SELECRON 500 EC at 1.5 l/ha for the first spray. Ensure thorough coverage of the plants by applying in 300 - 500 l/water/ha. For aerial application, apply in 30 l/water/ha.

**TABLE GRAPES**
Grapevine mealy bug *(Planococcus ficus)* | 100 - 125 ml/100 l/water | **REMARKS:**

**Early spring spray only:**

Apply twice with a 14 day interval prior to the start of flowering.

The second spray must be applied just before flowering starts.

SELECRON 500 EC may be phytotoxic to bunches of certain cultivars in the green berry stage.

Use the lower rate for maintenance and lower pest pressure situations. Where a heavy infestation occurs, use the higher rate.

**WINE GRAPES**
Grapevine mealy bug *(Planococcus ficus)*

**SELECRON 500 EC may be phytotoxic to bunches of**

Starts.

**REMARKS:**

Dormant spray:
Apply twice with a 14 day interval prior to bud burst. Do not apply after bud burst, especially not after blosson, to avoid any risk of wine tainting.

Apply as a high volume full cover spray directed at the vine trunk and the scaffold using 1.5 - 2 l spray mixture per vine depending on size.

American bollworm *(Thrips tabaci)*

Tomato semi-looper *(Chrysodeixis acuta)*

Onion thrips *(Thrips tabaci)*

Green peach aphid *(Myzus persicae)*

Red spider mite *(Tetranychus spp.)*

NOT FOR USE IN GREEN HOUSES AND TUNNELS.

High volume:
Apply (using different spray volumes depending on plant size and application method) at the first sign of infestation and repeat at 7 - 10 day intervals as long as pest remains active.

Ensure thorough wetting of the plants. For plants up to 600 mm high, use the lower rate in up to 500 l/water/ha.

For plants taller than 600 mm, use the higher rate in up to 1,500 l/water/ha.

Mist blower and low volume:
Ensure thorough coverage of the plants. For plants up to 600 mm high, use the lower rate in up to 250 l/water/ha.

For plants taller than 600 mm, use the higher rate in up to 500 l/water/ha.

Alternate with SORBA® (L5343). Refer to the SORBA label for application instructions.

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