

# Nemasys® C

Advanced Biocontrol for Horticulture

For control of overwintering stages of codling moth (*Cydia pomonella*), and oriental fruit moth (*Grapholita molesta*), larval stage of shore fly (*Ephydriidae*) and caterpillars: *Cydalima perspectalis*, *Duponchelia fovealis*

Contains the beneficial nematode *Steinernema carpocapsae* (87%) and an inert carrier with water (13%)

Product suitable in organic farming according to RCE n° 834/2007

## RECOMMENDED RATES

| Pest  | Application method   | Application conditions  | Application volume        | Dose                   | Pack size treats                       | Pack size                 |
|---|----------------------|---|---------------------------|------------------------|--|---------------------------|
| Codling Moth 5th instar (overwintering stage) on top fruit        | Soil and Tree Drench | <ul style="list-style-type: none"> <li>Apply from mid-September to late October.</li> <li>Apply when trunks and soil are thoroughly wet, ideally during light rain.</li> <li>In dry weather micro sprinklers or overhead irrigation can be used; apply at least 2.5 mm (25,000 L/ha) immediately before application.</li> <li>Apply as a coarse spray on the bark area, from ground to scaffolds (halfway up the trunk) and soil beneath canopy.</li> <li>In trellised orchards, spray lower 1.75 m of tree and soil covered by canopy.</li> <li>After application, the trees must remain wet for at least 8 hours.</li> <li>Make at least 2 applications 2 weeks apart.</li> </ul> | 1,500 litres/ha (minimum) | 1.5 billion/ha         | 1.0 ha                                 | 1.5 billion               |
| Oriental Fruit Moth 5th instar (overwintering stage) on top fruit |                      |   |                           |                        |  |                           |
| Shore Fly   | Soil Drench          | <ul style="list-style-type: none"> <li>Treat entire house or plant inventory as soon as pests are seen.</li> <li>In propagation areas, treat new plants as they are introduced.</li> <li>If product is applied over foliage, irrigate immediately with plain water to wash nematodes off the canopy.</li> <li>Reapply nematodes weekly.</li> </ul>  | 1 litre/m <sup>2</sup>    | 500,000/m <sup>2</sup> | 100m <sup>2</sup><br>500m <sup>2</sup> | 50 million<br>250 million |
| Caterpillars;<br><i>Cydalima perspectalis</i>                     | Foliar Spray         | <ul style="list-style-type: none"> <li>Apply when small caterpillars are first seen.</li> <li>Wet the areas before application with a pump sprayer or sprinkler.</li> <li>Apply during evenings or dull conditions.</li> <li>Spray directly onto pest; caterpillars not directly sprayed will not be controlled.</li> <li>Depending on pest severity, repeat application every 5-7 days.</li> </ul>   | 0.1 litre/m <sup>2</sup>  | 500,000/m <sup>2</sup> | 100m <sup>2</sup><br>500m <sup>2</sup> | 50 million<br>250 million |
| <i>Duponchelia fovealis</i>                                       | Soil Drench          | <ul style="list-style-type: none"> <li>Apply when small caterpillars are first seen.</li> <li>Wet the areas before application with a pump sprayer or sprinkler.</li> <li>Apply during evenings or dull conditions.</li> <li>Irrigate immediately with plain water and keep the soil moist for at least 2 weeks after application.</li> <li>Depending on pest severity, repeat application every 7-14 days</li> </ul>   | 1 litre/m <sup>2</sup>    | 500,000/m <sup>2</sup> | 100m <sup>2</sup><br>500m <sup>2</sup> | 50 million<br>250 million |

## DIRECTIONS FOR USE

- Remove all fine filters (50 mesh or smaller) from the application equipment.
- Partly fill the tank with cool (10-20°C), clean water.
- Empty one tray into a bucket and add a small volume of water to form a thick suspension.
- Stir the contents thoroughly making sure all lumps are fully dispersed before adding more water (normally a minimum of 10L).
- Add the nematode suspension to the tank and fill with water up to the required level.
- Start the agitator and keep running until application is completed. If a propeller is used, ensure it does not run at high revolutions (below 150 rpm).
- Fill tank to the required water level.
- Apply dose immediately to the whole crop at the appropriate rate.

## Knapsack sprayer (20L capacity) application instructions (suitable for 50 million packs only):

### Soil drench application for shore fly (100 m<sup>2</sup>)

- Disperse the entire contents of the pack in a bucket containing 10 litres of water to create a stock solution.
- Stir vigorously, immediately take 2 litres of the stock solution and add to knapsack fitted with a coarse spray nozzle and fill with cool, clean water.
- Apply the suspension to a fifth of the area to be treated. Keep the nematode suspension agitated as nematodes settle out quickly.
- Repeat steps 2 and 3 until the whole area is treated.
- Immediately after application water the treated area thoroughly to ensure nematodes are washed into the soil.

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## Dosing unit application:

- Set injection rate on dosing unit (normally 1%).
- Considering the pack size, injection rate, area to treat and recommended rates, calculate number of nematodes and volume of water required for a stock solution.
- Make up the stock solution and mix thoroughly to ensure that the nematodes are well dispersed. NOTE: If the suspension is too viscous add an additional known volume of water and adjust the injection rate accordingly.
- Place inlet tube into the stock solution and start the flow of water, so the dosing unit can start injecting nematodes into the outlet pipe.
- Start application ensuring the correct volume of water is being applied per unit area. Throughout application ensure that the nematode suspension remains agitated.
- Apply evenly to the whole area via lance, sprayer or sprinklers.

## PRECAUTIONS

- For tree drenches, apply when air temperature is between 14°C and 30°C.
- For soil drenches, the soil should be moist and between 12°C and 30°C during application and for at least 2 weeks after.
- Avoid applications in direct sunlight; evening applications are recommended.
- Agitate nematodes constantly during application.
- Do not use product if past expiry date or incorrectly stored.
- For information relating to which chemicals are compatible with Nemasys® C ask your distributor.
- Once opened, use each entire tray immediately (do not sub-divide or store opened packs or mixed suspension).
- Do not exceed 300 psi/20 bar/2000 kPa pump pressure.
- Nozzle aperture should be greater than 0.5 mm.
- Suitable nozzles should produce a medium spray (foliar application) or coarse spray (soil drench) at the intended application pressure.

## SAFETY PRECAUTION

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.  
Read label before use.

## STORAGE AND DISPOSAL

**Storage:** Upon receipt, use immediately or store in a refrigerator at or under 5°C. DO NOT FREEZE. Avoid the constant opening of the fridge to minimize temperature fluctuations and do not overfill to allow the movement of cold air. Use entire contents of pack at one time. Do not split or subdivide individual packs as each contains a measured dose of nematodes. Do not store diluted product. KEEP OUT OF REACH OF CHILDREN. THESE PRODUCTS CONTAIN LIVING ORGANISMS THAT REQUIRE SPECIAL HANDLING AND APPLICATION PROCEDURES. FOLLOW THESE INSTRUCTIONS CAREFULLY TO OBTAIN MAXIMUM ACTIVITY.

**Disposal:** Product and packaging waste resulting from the use of this product, or unused, outdated product, may be disposed of on site or at any approved waste disposal facility in accordance with local regulations.

## WARRANTY DISCLAIMER

BASF plc warrants that this product conforms to the description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions. BASF PLC DISCLAIMS ALL OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## REMEDIES

The remedy for injury or damage for this product is limited to, in BASF plc sole discretion, replacement of the product or refund of the purchase price paid. Under no circumstance shall BASF plc be liable for incidental, consequential or special damages.

## LIMITATION OF LIABILITY

No one is authorized to change or supplement, whether verbally or in writing, the statements contained on the label. BASF plc and the seller are not liable for personal injury or property damage or loss, including crop damage or lack of performance, due to circumstances beyond their control. BASF does not accept liability for a product user's failure to comply with the directions for use. Buyer and user assume all risks for these events.

## LICENCE CONDITIONS

Before opening this product, you must read and ensure that you can comply with the **full set** of licence conditions for the country you are using it in.

- England A licence is not required in England
- Wales Natural Resources Wales Grower's Licence (S092008/1g)
- Northern Ireland NI Environment Agency Grower's Licence (PCO/6/20)

The licences are available via the QR code below or using the following weblink:

[www.agricentre.basf.co.uk/product-licences](http://www.agricentre.basf.co.uk/product-licences)



A paper copy of the licences can be obtained by phoning 0845 602 2553 or by writing to [technicalhotline@basf.com](mailto:technicalhotline@basf.com).

The licence conditions include the following requirements:

- The product must only be used:
  - in Wales on nurseries, orchards, greenhouses, golf greens, fairways, home gardens, sport fields, forestry plantations and as part of fruit and vegetable production or
  - in Northern Ireland on forestry, orchards, gardens and allotments, glasshouses/protected uses and nursery stock, and turf in domestic gardens.
- If there is evidence that the nematode has become established or has caused unanticipated harm in the environment in and around the area it has been applied, BASF must be notified immediately by email ([technicalhotline@basf.com](mailto:technicalhotline@basf.com)) or by phone (0845 602 2553).
- The instructions on use, management procedures, grower guidelines and monitoring protocols must be complied with.

Releasing *Steinernema carpocapsae* otherwise than in accordance with the terms of the licence may constitute an offence.

[www.agricentre.basf.co.uk](http://www.agricentre.basf.co.uk)

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