

# Nemasys® J

## Advanced Biocontrol for Horticulture

### For the control of leatherjackets (*Tipula spp.*) in turf

Contains the beneficial nematode *Steinernema feltiae* (90%) and an inert carrier with water (10%)

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

#### RECOMMENDED RATES

Application method	Application volume	Dose	Pack size 250 million
Turfgrass	0.1 litre/m <sup>2</sup>	500,000/m <sup>2</sup>	500m <sup>2</sup>

#### DIRECTIONS FOR USE

- Remove all fine filters (50 mesh or smaller) from the application equipment.
- Partly fill the tank with cool, 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 10 litres).
- Add the nematode suspension to the tank and fill with water up to the required level.
- Start the agitator and keep running until the application is completed. If a propeller is used, ensure it does not run at high revolutions (below 150 rpm).
- Apply dose immediately to the whole area at the appropriate rate.
- Irrigate immediately after soil application to disperse nematodes into soil.

#### Knapsack sprayer (20L capacity) application instructions:

- 1) Disperse the entire contents of the pack in a bucket containing 10 litres of water to create a stock solution.
- 2) Stir vigorously, immediately take 2.5 litres of the stock solution and add to knapsack fitted with a coarse spray nozzle and fill with cool, clean water.
- 3) Apply the suspension to a quarter of the turf area to be treated. Keep the nematode suspension agitated as nematodes settle out quickly.
- 4) Repeat steps 2 and 3 until the whole area is treated.
- 5) Immediately after application water the treated area thoroughly to ensure nematodes are washed into the soil. A garden hose provided with a sprinkler can be used for this purpose.

#### Dosing unit application instructions:

- Set injection rate on dosing unit (normally 1%)
- Considering the pack size, injection rate, area to treat and recommended rate, calculate the 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, sprinklers or boom sprayer.

- Water the treated area thoroughly and immediately after application with no less than 3 litres per m<sup>2</sup>.

#### APPLICATION CONDITIONS

##### For optimum results:

- Effective control is achieved when young larvae are feeding close to the soil surface, usually two weeks after you see a peak of crane flies. Adult emergence normally occurs in August/September or April/May. Applications targeting larger, more mature larvae, are not as effective as when targeting younger stages.
- Consider scarification in lawns with excessive layer of thatch.
- Soil should be between 10°C and 30°C during application and for at least two weeks after.
- Cut the grass short before treatment.
- Irrigate the area to be treated prior to application.
- Two applications every 2-4 weeks would help achieve greater levels of control.

##### To avoid desiccation of the nematodes:

- Avoid direct sunlight; make applications in the evenings or in dull conditions
- Application during rain is highly desirable.
- The use of a wetting agent helps the penetration of nematodes into the soil.
- Ensure soil is moist prior to application and for at least two weeks after.
- It is very important to irrigate immediately after application to move the nematodes below the thatch layer.

#### PRECAUTIONS

- 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® J ask your distributor.
- Once opened, use each entire tray immediately (do not sub-divide or store opened packs or mixed suspension).
- Nemasys® J persists for approximately four weeks: larvae emerging from eggs laid after this time may be poorly controlled.
- Nemasys® J will not control leatherjacket adults.
- 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 coarse spray at the intended application pressure.

### **SAFETY PRECAUTIONS**

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**

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