

# Nemasys<sup>®</sup>

Fungus Gnat Control in Interiorscapes

## General Description

Nemasys<sup>®</sup> contains live nematodes *Steinernema feltiae* in their infective juvenile stage. These nematodes attack pest larvae by entering through their natural body openings. Once inside, they release symbiotic bacteria, *Xenorhabdus*, which quickly kills the insect. Reproduction inside the insect host releases a new generation of hungry infective juveniles which disperse in search of more larval prey.

## Directions for Use

To make a *stock solution*, dissolve 1 tray of Nemasys 50 million in 2 gallons of water. Allow the product to hydrate and disperse for at least five minutes. Keep agitated until all *stock solution* is used.

## Watering Can ( 2 gallons )

Remove nozzle head from the watering can. Create application dilutions, as follows:

- **First Application / Heavy Infestation** - Mix 1 pint *stock solution* with 7 ½ quarts of water.
- **Preventative Application / Light Infestation** - Mix 1 cup of *stock solution* with 7 ¾ quarts of water.

## Hand-Held Backpack Sprayers

Water plant container as normal prior to nematode application. Remove all filters from the sprayer. Create application dilutions as follows:

- **First Application / Heavy Infestation** - Dilute one part *stock solution* to one part water.
- **Preventative Application / Light Infestation** - Dilute one part *stock solution* to 3 parts water.

(Continued)

## Benefits

- Proven curative advanced biocontrol
- No restrictions in use and no re-entry interval
- Natural product that is safe to applicators, users, and the environment
- No requirements for protective clothing
- No concerns for residue run off
- EPA-registration not required

## Application Rates

Apply at a rate below based on the diameter in inches of the pot.

Pot Diameter	Watering Can ( 2 gal.)	Backpack Sprayer*
4 in.	3 oz. per container	2-3 pulls on trigger
10 in.	8 oz. (½ c.) per container	4-5 pulls on trigger
14 in.	12 oz. (¾ c.) per container	7-8 pulls on trigger
17 in.	16 oz. (1 c.) per container	8-10 pulls on trigger
21 in.	24 oz. (1 ½ c.) per container	13-15 pulls on trigger

\* **Please note:** for calibration purposes on backpack sprayers, 1 ounce = 8-10 pulls on a trigger sprayer. The more concentrated dilutions for backpack sprayer applications helps to reduce the application time at each container.

## Application Conditions

### For optimal results:

- Nematodes require moist conditions to enhance effectiveness.
- To avoid nematode desiccation, provide a light amount of water to dry soil prior to nematode application. Following the application, ensure that the containers remain moist for at least two weeks.
- Soil should be 54 -86°F at application.
- Use nematodes immediately after mixing.
- Agitate nematodes constantly during application.

## Precautions

- Do not use if past expiration date or if improperly stored.
- Do not store Nemasys® mix solutions for future use.
- Never mix fertilizers or pesticides with Nemasys in a concentrate solution.
- Once pests are established, it may take two or three weeks before the number of adults is noticeably reduced.
- Follow best management practices to monitor adult pest populations and to establish appropriate timing of nematode applications for optimal results.

## Storage and Disposal

### Storage

- Upon receipt remove outer packaging.
- Store in a refrigerator (41°F/ 5°C ) but do not freeze.
- Ensure good air circulation around each tray.
- Use the entire tray contents at one time – do not use partial trays.
- Use before expiration date.

### Disposal

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

### Active Ingredients

*Steinernema feltiae* ..... 90%  
Other ingredients: inert carrier and water ..... 10%

**Guaranteed Analysis:** Each tray contains a minimum of 50 million nematodes.