

# Guardian for Fungus Gnat

## BENEFICIAL NEMATODES FOR FUNGUS GNATS

Fungus Gnats are small (4 to 5mm long) dark brown flies that are commonly seen in or around houseplants in both damp and humid environments. The larvae stage of Fungus Gnats feed on decaying organic matter and living materials such as the roots and stalks of plants. Beneficial nematodes have emerged as a natural product that is safe for homeowners, pets, and the environment. Guardian for Fungus Gnat contains *Steinernema feltiae*, a specific beneficial nematode for quick control of fungus gnats. These nematodes attack the fungus gnat larva by entering through their natural body openings. Once inside, the nematodes release a symbiotic bacterium that quickly kills the fungus gnat. The fungus gnat larva changes in colour to an opaque white or light yellow. Reproduction inside the dead fungus gnat larva results in a new generation of nematodes that disperse to find more prey.

**Guardian for Fungus Gnat kits:** 2 applications of 2.5m<sup>2</sup> (25ft<sup>2</sup>) for small, 5 m<sup>2</sup> (50 ft<sup>2</sup>) for medium and 10m<sup>2</sup> (100ft<sup>2</sup>) for the large size package.  
2 Yellow Sticky Monitoring Cards plus 2 twist ties for hanging

### Before Application

- **Guardian for Fungus Gnat** can be stored in a refrigerator at 6-8°C (43-46°F) for up to 8 weeks; do not freeze.
- Treatment plants should be well watered and soil should be moist through the entire pot before application. After application plants should remain moist and not allowed to dry out between watering.
- Soil temperatures should not fall below 10°C (50°F) for 14 days following treatment with **Guardian for Fungus Gnat**.
- Do not apply in bright sunlight. The best time for application is on a cloudy day or late in the afternoon.
- **Guardian for Fungus Gnat** should not be mixed with fertilizers or pesticides.

### Application

1. Open one **Guardian for Fungus Gnat** nematode package and store second package in your refrigerator. Remove the sponge from the plastic bag and place into 1/2 litre (small), 1 litre (medium) and 2 litres (large) of water, respectively, wring out sponge 5 to 10 times and rinse plastic bag to release all nematodes. (Please Recycle) This is your nematode solution.
2. Input 1:1 ratio (1 part nematode solution to 1 part water) within your watering system / hose end sprayer or watering can.

| Pot size    | Amount of nematode solution to apply | Number of pots treated per package size |                |               |
|-------------|--------------------------------------|-----------------------------------------|----------------|---------------|
|             |                                      | Small Package                           | Medium Package | Large Package |
| 13 cm (5")  | 2.7 ml per pot                       | 185                                     | 370            | 710           |
| 15 cm (6")  | 3.5 ml per pot                       | 143                                     | 286            | 570           |
| 20 cm (8")  | 6.5 ml per pot                       | 77                                      | 154            | 307           |
| 25 cm (10") | 10.1 ml per pot                      | 50                                      | 100            | 198           |
| 30 cm (12") | 14.1 ml per pot                      | 35                                      | 70             | 140           |
| 46 cm (18") | 32.8 ml per pot                      | 15                                      | 30             | 61            |
| 61 cm (24") | 58.3 ml per pot                      | 8                                       | 17             | 34            |

3. Apply nematode solution to soil, do not over water and allow the solution to run through the pot.
4. To avoid nematodes from settling at the bottom of your watering can (they are heavier than water), make sure to stir the solution before each application.
5. Use all **Guardian for Fungus Gnat** nematode solution within a 2-hour period.
6. Repeat application in two weeks.
7. Place yellow sticky card close to soil surface of treatment pots to trap and monitor adult fungus gnats.

For further Information Contact: **NATURAL INSECT CONTROL**, 3737 Netherby Road, Stevensville, Ontario, L0S 1S0  
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For further Information on Guardian for Fungus Gnats go to [www.naturalinsectcontrol.com](http://www.naturalinsectcontrol.com)