



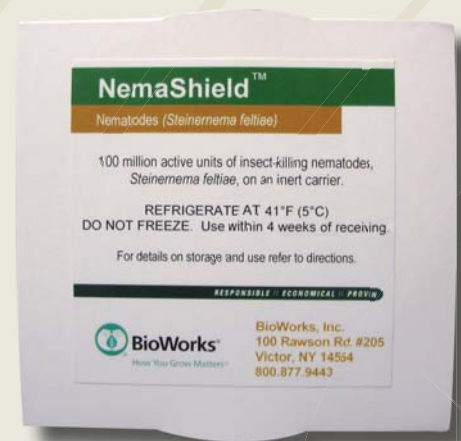
# NemaShield™

## Biological Control for Fungus Gnats and Western Flower Thrips

When planting your next greenhouse crop, choose NemaShield™ for safe, effective control of fungus gnats and Western Flower Thrips. A single application of NemaShield, containing the beneficial nematode *Steinernema feltiae*, is sufficient for preventing fungus gnat outbreaks or control in the beginning phase of an outbreak. It is also a valuable tool in WFT control to help disrupt the portion of the life cycle that occurs in the growing medium, which will decrease the adult population. This assures that your greenhouse crops have the most vigorous root system possible. It is safe and easy to use on all crops at any growth stage.

### NemaShield Benefits

- Fast, effective biological control of fungus gnat larvae and WFT pre-pupae and pupae in the growing medium
- Easy and safe to apply
- Exempt from EPA regulations; no reentry interval
- Compatible with many pesticides
- Easy-to-use dispersible formulation
- Small minimum purchase requirement (100 million count container)
- Fast, overnight delivery as needed



To find out more about the BioWorks family of products, please contact us at 800-877-9443 or visit [www.bioworksinc.com](http://www.bioworksinc.com).



## BioWorks®

How You Grow Matters™

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# NemaShield™

## Applications

### Fungus Gnat Control

Apply NemaShield when fungus gnats are present, but at low population density. One unit of NemaShield, containing 100 million nematodes, will treat 1100 to 3400 square feet. After application, NemaShield nematodes actively seek out fungus gnat larvae. They enter the larval body, secrete a bacterium, and kill the larva within a few days. Nematodes then complete their life cycle, producing a new generation of nematodes to attack additional fungus gnat larvae. NemaShield kills only larvae; it does not kill adults, pupae or eggs.

NemaShield is compatible with all other beneficial organisms and in soils previously treated with botanical insecticides. It is also compatible with many chemicals used in fungus gnat control programs.

Apply NemaShield early in the crop cycle when fungus gnats become apparent after planting, sticking cuttings, or seeding plug trays. Reapply within 2 weeks; sooner if infestations are moderate to heavy.

### Western Flower Thrips Control

*Steinernema feltiae* have been found effective in a control program for treatment of Western Flower Thrips (*Frankliniella occidentalis*) pupae and pre-pupae. The nematodes should be applied to the potting media at rates recommended for fungus gnat larval control.

### Preparation of NemaShield for use

- Prepare out of direct sunlight.
- Place the entire contents of the package into 4 gallons of 60 - 75° F water.
- Stir well and pour entire contents into the spray tank.
- Fill sprayer or stock tank with water required for area to be sprayed.
- Apply immediately after preparation.
- Wash hands.

Rates	
Fungus Gnat Control Thrips pre-pupae and pupae Control	Coverage per unit of NemaShield (100 million nematodes)
Light infestation	3400 sq. ft. with 100 gals water
Moderate infestation	2200 sq. ft. with 70 gals water
Heavy infestation	1100 sq. ft. with 50 gals water

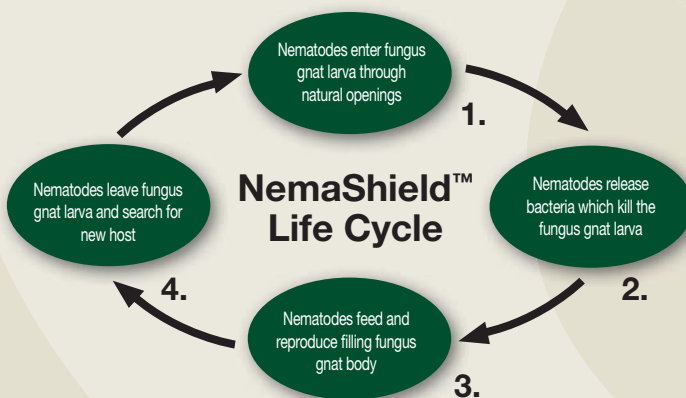
## Making the application

- Optimum time for application is at dusk to avoid UV injury to NemaShield.
- Make application to moist soil. Irrigate before application if necessary, however do not irrigate heavily prior to or after application.
- Immediately after application, irrigate enough to both rinse nematodes from plant foliage and move them into the potting medium. Excessive irrigation and leaching will wash NemaShield out of the pot.
- Apply using a hydraulic sprayer, injector (set at 1:100), boom irrigation, hose-end sprayer or watering can.
- Remove filters and screens from the sprayer or irrigation system.
- Continuously agitate the NemaShield solution. Use a coarse spray setting (nozzle opening at least 0.5 mm or 35 mesh). Keep pressures below 300 psi.
- Apply when soil media temperature is between 55 and 86° F. Optimum is 74° F.
- NemaShield may be washed out of pots irrigated using ebb and flow (benches/floors).

Read and follow the label carefully.

## Storage of NemaShield

- Store under refrigeration at an optimum temperature of 41° F. Do not freeze.
- Stored properly, NemaShield will keep for 4 weeks after arrival. Expiration date on the box is day, month, year format (dd/mm/yy).



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Please refer to product labels for complete application details. Additional technical information is available from either our website: [www.bioworksinc.com](http://www.bioworksinc.com), or your BioWorks sales representative. Always read and follow label directions. © 2009 BioWorks Inc., NemaShield™ is a trademark of BioWorks Inc.