



BioWorks®

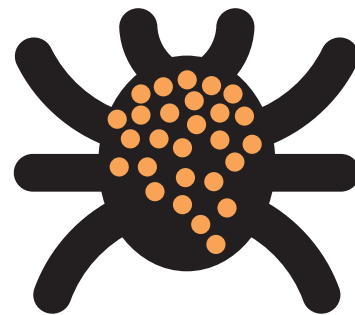


ABOVE AND BEYOND IS WHERE WE BEGIN



NEMASHIELD® & NEMASHIELD HB

NemaShield and NemaShield HB contains beneficial nematodes ideally suited for management of soil dwelling insects. Beneficial nematodes infect and kill harmful insect larvae in the potting media, preventing damage to roots and helping plants re-establish strong, vigorous root systems. Beneficial nematodes are compatible with beneficial organisms, like RootShield® and synergistic with products, like Molt-X®. NemaShield & NemaShield HB are excellent tools for your integrated pest management program.



NEMATODES RELEASE BACTERIA INSIDE INSECTS THAT MULTIPLY RAPIDLY AND KILL INSECTS QUICKLY. THE BACTERIA THEN CONVERTS TISSUE INTO FOOD FOR NEMATODES, WHICH CAN THEN COMPLETE THEIR LIFE CYCLE.

ACTIVE INGREDIENT

NemaShield - *Steinernema feltiae*

NemaShield HB - *Heterorhabditis bacteriophora*

FEATURES AND BENEFITS

- + Fast, effective biological control
- + Insects stop feeding within 24-48 hours
- + Nematodes release bacteria inside the insect host that causes septicemia and death
- + Bacteria multiply rapidly inside the insect host converting tissues into food for nematodes
- + The next generation of nematodes leave the insect host to actively seek new hosts
- + No REI, 0-day PHI, No PPE required
- + Suitable for IPM programs, compatible with many pesticides

WHERE TO USE

NemaShield: Apply NemaShield to the potting media as a drench. NemaShield is ideally suited for targeting soil dwelling thrips prepupae/pupae and fungus gnat larvae.

NemaShield HB: Apply NemaShield HB to the potting mix or soil to kill insects feeding on plant roots. NemaShield HB is ideally suited for targeting soil-dwelling insects such as Lepidoptera (cutworms), plant boring larvae, and beetle larvae (black vine weevil larvae and white grubs).



NEMASHIELD®

PRODUCT INFORMATION

- + Available Sizes:
NemaShield: 100 and 250 million
NemaShield HB: 50 and 500 million
- + Registered for use in the USA, except HI
- + MPS Code: 990515/Green White

SHELF LIFE

- + Below 32 °F (0 °C): Do not freeze
- + Refrigerated 40 °F (4 °C): 4 weeks
- + Do not store at room temperature
- + Do not store outdoors

APPLICATION NOTES

- + Keep product refrigerated until use
- + Apply immediately after mixing with cool water
- + Use agitation to prevent settling
- + Apply early in the crop cycle as a preventative
- + **NemaShield:** Reapply every 5-21 days depending on insect pressure
- + **NemaShield HB:** Target applications when 1st and 2nd instar larvae are present; reapply again in a few weeks or as needed
- + DO NOT apply in direct sunlight; apply on a cloudy day or late in the afternoon
- + Consult **BioWorks' Product Compatibility Tool** for compatibility information
- + **NemaShield:** Soil or growing media temperatures should be between 54 °F-86 °F (12 °C-30 °C)
- + **NemaShield HB:** Soil should be 57-86 °F (14 -30 °C) at application and for at least two weeks after application

APPLICATION RATES

NemaShield: 30-50 gallons/1000 ft². Apply in a sufficient volume of water to thoroughly wet the growing media, but not to the point where water overflows or leaches.

- + Light infestation: 100 million/3400ft²
- + Heavy infestation: 100 million/2200ft²
- + Highly susceptible crops/newly stuck cuttings: 100 million/1100ft²

NemaShield HB:

- + Light infestation: 1 billion per acre (50 million/2,000 ft²)
- + Heavy infestation: 2 billion per acre (50 million/1,000 ft²)
- + Use an application volume of 65-130 gallons per acre (1.5-3 gallons of water per 1000 ft²)

GOING ABOVE AND BEYOND

At BioWorks, we not only help eradicate harmful diseases and pests that threaten your crops, but we design and support integrated plant health management programs. And because we know how quickly some diseases can work, we respond to any questions you might have in just four hours. So you can get back to the business of successful growing.



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