



50 Million HETEROMASK Spray

Directions

Beneficial nematodes (*Heterorhabditis bacteriophora*), the active ingredient in HETEROMASK are native, naturally occurring insect parasitic nematodes that seek out pest insects, enter their body and release symbiotic bacteria which kill the pests. These nematodes have not been modified in any way and are supplied in a moist inert carrier. This product is only active against pest insects.

Refrigerate until use. Use before date marked on packaging. **DO NOT FREEZE.**

Contains a minimum of 50 million infective juvenile nematodes. Treats between 1600 and 2400 sq. ft. depending on pest and level of infestation.

BioLogic's Nema-Jet or hose end sprayer

- 1) Be sure to use either BioLogic's precalibrated **Nema-Jet Sprayer** or an equivalent hose end sprayer with a minimum of 1:100 dilution rate (*i.e.* >0.75 ounce/gallon).
- 2) Mix contents of enclosed bag in 5 cups of water.
- 3) Thoroughly mix and add 1 cup of mixture to the sprayer reservoir. Determine your application type from the reverse side. Each cup of solution should treat the area indicated below.

Application	Coverage Area (sq. ft.)
A	320
B	480

- 4) Apply in late afternoon or evening. Water application area, apply nematodes while agitating solution, and water again to wash nematodes off foliage.
- 5) Repeat steps 3 and 4 until remaining nematode solution is used. Use all of the nematode solution within 24 hours of mixing.

White Grubs: Apply in early spring or late summer. The nematodes in HETEROMASK are only active at soil temperatures above 68°F. Focus treatment on sunny areas of the lawn.

Safety

Beneficial nematodes are found throughout North American and European soils, but concentrations are too low to be effective. Horticultural practices such as cultivation and soil steaming kill beneficial nematodes. Therefore, soils need to be augmented with Scanmask. Scanmask is completely harmless to people, pets, and plants, by ingestion or injection. There is no phytotoxicity. The US Environmental Protection Agency (EPA) has exempted Scanmask from the registration required for chemicals (Federal Register vol. 47, #106, 23928). Recycle container after use, do not reuse. Not for human consumption. Store away from children. May cause allergic reaction. No warranty expressed or implied of any other purpose than stated here.

Pump sprayers or watering can

- 1) Create nematode solution: mix contents of enclosed bag into 2 gallons clean cold water.
- 2) Determine application type from the table to the right. Thoroughly mix the nematode solution and add to the sprayer or can as indicated below for each gallon of sprayer capacity (*e.g.* 2 gallon sprayer with application A would receive 4 cups of nematode solution).

Application	Nematode Solution
A	2 cups
B	1 1/3 cups

- 3) Fill sprayer to capacity with cold water. Each gallon in the sprayer will treat 100 sq. ft.
- 4) Apply in late afternoon or evening, water application area, apply nematodes with a coarse spray while agitating solution, and water again to wash nematodes off foliage.
- 5) Repeat steps 2 through 4 until remaining nematode solution is used. Use all of the nematode solution within 24 hours of mixing.

Application Types

Pest Insect	Application
Banana Moth	A
Bill Bug	B
Black Vine Weevils	A
Citrus Root Weevils	A
Grape Root Borer	A
Small Hive Beetle	A
Strawberry Weevils	A
White Grubs European Chafer Japanese Beetle Oriental Beetle	B

Helpful Hints for Common Pests

Bill Bug: Treat infested areas in early spring or late summer. The nematodes in HETEROMASK are only active at soil temperatures above 68°F.

Black vine weevil: Treat around drip zone of shrubs or trees.

BioLogic Company has been producing beneficial nematodes since 1985. We strive to deliver our customers with quality products grown and produced in the USA. We are proud to be a true American start-up and have grown by delivering quality, organic products. We do not exaggerate effective application rates. Our advertised application rates are based on either our research or research conducted by reputable institutes.

