



# Nematac® S

## Advanced Biocontrol for Mole Crickets in Turf and Pasture

### GENERAL DESCRIPTION

**Nematac® S** is recommended for control of late nymph and adult stages of tawny (*Scapteriscus vicinus*) and southern (*S. borelli*) mole crickets in turf and pastures. Nematac S is a naturally occurring, insect parasitic nematode (*Steinernema scapterisci*) that seeks out mole crickets, enters their bodies and releases symbiotic bacteria which kill the pests. This nematode has not been modified in any way and is supplied in a moist carrier. This product is only active against imported species of mole crickets.

### RECOMMENDED RATES

#### SUGGESTED USE RATES

Nematac S	Golf Courses, Sports Fields, Parks, Commercial & Residential Lawns	Non-irrigated Pasture, Turf (Inoculate minimum 1/8 acre per acre)
No. of Acres	Rate: 1 billion nematodes/acre	Rate: 125 million nematodes/acre
2	4 cases	-
4	8 cases	1 case
8	16 cases	2 cases
16	32 cases	4 cases
20	40 cases	5 cases

one case = 2x250 million nematodes

#### Golf Courses, Sod Farms, Sports Fields, Lawns and Irrigated Pasture

For situations where irrigation is available, best performance will be achieved by treating the entire area using the following directions:

1. Irrigate the area with at least 0.25 inch of water prior to application of Nematac S.
2. Remove all fine filters (50 mesh or finer) from the application equipment, including those in the nozzles. Ensure the spray-tank is clean and free of any pesticide residues.
3. Partly fill the tank with cool clean water. Start and maintain agitation until the application is completed.
4. Empty the appropriate number of Nematac S trays directly into the tank and mix thoroughly. Refer to the Suggested Use Rates chart below.
5. Add the required volume of additional water to the tank.
6. Apply Nematac S solution immediately.
7. Irrigate immediately after application with at least 0.25 inch of water to move the nematodes below the thatch layer into the soil.

#### Inoculation Technique for Non-irrigated Pasture or Turf

Areas with high mole cricket populations should be treated as the primary inoculation zones. Inoculation zones should be no less than 1/8 of an acre. Infected mole crickets will spread Nematac S to surrounding areas over time. The larger the inoculation zones, the sooner Nematac S will spread to the non-treated areas.

If irrigation is not available then Nematac S must be injected into the soil as follows:

1. The soil must be moist at the time of application.
2. Inoculation zones should be treated so that no less than 125 million nematodes (in 12.5 gallons of water) are applied to a minimum of 1/8 acre. This rate is needed to ensure establishment of the nematode.
3. Use a machine with injector tines or a modified slit seeder that can place the nematode solution approximately 1 inch below the surface and then cover with soil (a press wheel may be suitable for this purpose). Do not exceed an application pressure of 300 psi.



## **DIRECTIONS FOR USE**

This product contains living organisms that require special handling and application procedures. Follow these instructions carefully to obtain maximum activity.

### **Application Conditions**

For optimum results:

- Treatments should be made in the spring or early to mid-autumn.
- Spring treatments should be made early to target the over-wintering adults before they mate and lay eggs.
- Autumn treatments should be made to control adults and late instar nymphs. Young nymphs present at application time will not be immediately controlled.
- Soil must be moist and soil temperatures should be between 55°F-100°F.
- Make applications either at dawn or at dusk to avoid UV light damage to the nematodes.
- Use entire tray contents at one time - do not subdivide contents of trays.
- Agitate nematodes constantly during mixing and application.
- Use all the nematode solution immediately after mixing. Do not store mix solutions for future use.

### **Storage and Disposal**

- Upon receipt remove outer packaging.
- Store Nematac S in a refrigerator 41°F (5°C) but DO NOT FREEZE
- Ensure good air circulation around each tray.
- Do not reuse empty container and dispose of in accordance with local, state and federal regulations.

## **PRECAUTIONS**

- Do not use product if past expiration date or incorrectly stored.
- Nematac S should not be applied with any other product except a spray pattern indicator dye such as Becker Underwood's Turf Mark®. Some commonly used pesticides or chemicals may reduce the viability and/or efficacy of Nematac S.
- Do not use any nematicides within 21 days before or after a Nematac S application.
- Do not exceed 300 psi pump pressure.

## **PACKAGING**

One case contains 2 trays, each tray contains 250 million infective juvenile nematodes.