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# Nemasys<sup>®</sup> R

Advanced Biocontrol for Citrus Root Weevil and Blue Green Weevil in Citrus

Keep Out of Reach of Children

This product does not require a hazard warning in accordance with GHS criteria.

**Net Contents:**

**Nemasys R** is available in packs containing 2 x 1.5 billion nematodes. Each 2 x 1.5 billion pack treats approximately 15 acres.

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

**Nemasys® R** is a naturally occurring, insect parasitic nematode (*Steinernema riobrave*) that seeks out and kills soil-dwelling stages of Citrus Root Weevil (*Diaprepes abbreviatus*), and Blue Green Weevil (*Pachnaeus* spp).

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### Precautions

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This product contains living organisms that require special handling and application procedures.

- **DO NOT SUBDIVIDE.** Once opened, use the entire tray immediately.
- Use cool water for mixing and keep tank out of direct sunlight.
- **DO NOT STORE MIXED SUSPENSIONS.** Use nematode suspensions immediately after they have been mixed.
- Remove all in line filters that are 50 mesh or finer from irrigation lines and associated application equipment.
- **DO NOT** exceed 300 psi pump pressure.
- **DO NOT** use in application systems where nozzle aperture is smaller than 0.5 mm.
- Agitate nematodes constantly during application.

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### Directions For Use

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**Nemasys R** is suitable for application through Micro jet irrigation systems or via Band Application with boom spray.

#### Micro jet irrigation:

1. Pre-irrigate grove or nursery if necessary to achieve uniform soil moisture to at least 2 inches (deeper on sandy ridge soils). Ensure irrigation is calibrated to ensure coverage of 80% of the root zone.
2. Calibrate the injection pump to deliver the concentrate over a one hour period.
3. Irrigate for 15-30 minutes immediately prior to starting **Nemasys R** injection to cool the lines and establish a wetting pattern under the trees.
4. In a bucket containing no less than 5 gallons of water, open and immediately add the 2 x 1.5B packs of **Nemasys R**. The water temperature should be between 40-85°F.
5. Stir contents thoroughly, let sit for 5 minutes and mix again making sure the product is completely dispersed.
6. Empty the bucket into the irrigation feeder tank and add sufficient water to apply product over a period of one hour.
7. Irrigate grove after application with 0.5-1 inch of water.

#### Band Application with Irrigation in Grove or Nursery:

1. Pre-irrigate prior to **Nemasys R** application to moisten soil to at least 2 inches deep.
2. In a bucket containing no less than 5 gallons of water, open and immediately add the 2 x 1.5B packs of

**Nemasys R**. The water temperature should be between 40-80°F.

3. Stir contents thoroughly, let sit for 5 minutes and mix again making sure the product is completely dispersed.
4. Empty the bucket into the spray tank.
5. Apply **Nemasys R** in at least 100 gallons of water per acre in a banding pattern to moist soil inside the drip line of tree. The product should be applied to the root zone between the tree trunk and the drip line.
6. Continue irrigation for a minimum of one hour after spraying.

**Nemasys R is not suitable for tank mix application with other products. DO NOT apply through irrigation system at the same time as other products.**

#### Soil-dwelling Weevil Applications

Control of Citrus Root Weevil and Blue Green Weevil is targeted at the soil-dwelling larval and pupal stages. Application of **Nemasys R** should occur 2-3 times per year, ideally prior to pest emergence peaks in the Spring and during the rainy season through Fall.

#### Recommended Rates

**Nemasys R** is to be applied at a rate of at least 18,000 nematodes per square foot of irrigated grove. Each 2 x 1.5 billion pack of **Nemasys R** treats approximately 15 acres of citrus.

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### Storage and Disposal

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**Storage:** Remove from shipping package and use immediately or store in refrigerator. Ensure good air circulation around each tray. Keep away from heat. Protect from direct sunlight. Store protected against freezing. Storage temperature: 5°C (41°F).

**Waste Disposal of Substance:** Must be disposed of or incinerated in accordance with local regulations.

**Container Disposal:** Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

**Accidental Release Measures:** Segregate from foods and animal feeds. Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. For small amounts: Contain with dust binding material and dispose of. For large amounts: Sweep/shovel up. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

**EMERGENCY CONTACT: CHEMTREC 1-800-424-9300  
BASF Corporation 1-800-832-HELP (4357)**

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## Conditions of Sale and Warranty

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The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT. BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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