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4/30/2001

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Base Pre-Reg. (8886) 1/6

U. S. LABEL

RECD EPA/OPP/DPD1

Reason for Issue: To cancel use on citrus.

Date of Draft: 10/22/96 (T)

Best Available Copy

96 NOV -7

A11 55

**RESTRICTED USE PESTICIDE**

Due to High Acute Toxicity and Toxicity to Wildlife  
For Sale to and Use Only by a Certified Applicator for Uses Authorized by His Certification,  
or by Persons Under His Direct Supervision.

# Nemacur® 15% Granular

## Systemic Insecticide - Nematicide

For effective control of nematodes in certain field, fruit and vegetable crops.

**ACTIVE INGREDIENT:**

Ethyl 3-methyl-4-(methylthio)phenyl (1-methylethyl)phosphoramidate ..... 15%

INERT INGREDIENTS ..... 85%

100%

EPA Reg. No. 3125-236

Net Weight \_\_\_\_\_ Pounds

**STOP - Read The Label Before Use**  
**KEEP OUT OF REACH OF CHILDREN**

**DANGER****POISON****PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

**STATEMENTS OF PRACTICAL TREATMENT****Organophosphate**

In case of poisoning call a physician immediately. Have patient lie down and keep quiet. If swallowed: Vomiting should be induced. Administer water freely and induce vomiting by giving one dose (1/2 oz or 15 mL) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Never give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin: Remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated: Wash with flowing water for at least 15 minutes. If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.

**SYMPTOMS OF POISONING:** A sense of "tightness" in the chest. Sweating. Contracted pupils. Stomach pains. Vomiting and diarrhea.

**Note To Physician: ANTIDOTE -** Administer atropine sulfate in large therapeutic doses. Repeat as necessary to the point of tolerance. 2-PAM is also antidotal and may be administered in conjunction with atropine.

Compound inhibits cholinesterase resulting in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 12 hours. At first sign of pulmonary edema, the patient should be placed in an oxygen tent and treated symptomatically.

Text being deleted is highlighted by strikeout.

# Nemacur 15% G

96 NOV -7 P12202

RECD EPA/OPP/DPD1

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Fatal if swallowed. May be fatal if inhaled. Harmful if absorbed through the skin. Causes eye irritation. Do not breathe dust. Avoid contact with skin, eyes, or clothing.

Do not contaminate feed or food. Keep out of the reach of children. Not for use or storage in or around the home.

#### Personal Protective Equipment

Applicators and other handlers must wear:

- Chemical-resistant protective suit
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering controls statements:** When handlers use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Cover, incorporate, or pick up spilled granules at row ends or turn areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**Ground Water Advisory:** Fenamiphos is known to leach through soil and has been found in ground water as a result of agriculture use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through contaminated equipment. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination,

#### AGRICULTURAL USE REQUIREMENTS Continued

notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

**Exception:** If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted

**AGRICULTURAL USE REQUIREMENTS Continued**

under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Chemical-resistant protective suit
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

**IMPORTANT:** Read these entire Directions and Conditions of Sale before using NEMACUR 15% Granular systemic insecticide-nematicide.

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. INSUFFICIENT CONTROL OF PESTS AND/OR INJURY TO THE CROP TO WHICH THE PRODUCT IS APPLIED MAY RESULT FROM THE OCCURRENCE OF EXTRAORDINARY OR UNUSUAL WEATHER, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS,

ANIMALS, MAN, OR THE ENVIRONMENT. BAYER OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF BAYER AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

Consult your State Agricultural Experiment Station or Extension Service Specialist or Bayer representative for guidance on the selection of dosage rates and timing of applications appropriate for your specific crop and pest. State regulations may contain additional restrictions or requirements. Check the "Remarks" and "Restrictions" sections of this label for additional directions.

Check equipment calibration frequently.

**Incorporation Recommendations:** Unless otherwise specified, NEMACUR 15% Granular must be incorporated into the soil for optimum results. Incorporation may be accomplished by irrigation or mechanical equipment. For applications made at planting, the action of some planters during the planting operation may provide adequate incorporation. When using planters which do not provide adequate incorporation of NEMACUR 15% Granular into the soil, additional incorporation may be achieved by use of equipment specifically designed for incorporation purposes behind the planter. Precautions should be taken to avoid disturbing seed or transplant replacement.

RECOMMENDED APPLICATIONS								
CROP	PEST	DOSAGE NEMACUR 15% G	REMARKS					
FIELD CROPS Cotton	Thrips (early season reduction)	6 to 8 oz per 1000 ft of row for any row spacing (5 to 6.5 lb per acre on 40-inch row)	In furrow: Apply specified dosage per 1000 ft of row.					
	Nematodes Thrips	8 to 12 oz per 1000 ft of row for any row spacing (6.5 to 9.8 lb per acre on 40-inch row spacing)	In furrow: Apply specified dosage per 1000 ft of row.  Suggested use rates of NEMACUR 15% G in oz/1000 feet of row based on nematode infestation levels: <table><tr><td>Low</td><td>Moderate</td><td>High*</td></tr><tr><td>8</td><td>10</td><td>12</td></tr></table> *Use the 12 oz/1000 feet rate with a history of nematode problems.	Low	Moderate	High*	8	10
Low	Moderate	High*						
8	10	12						
IMPORTANT: Do not overlap bands on narrow row crops. Do not feed or graze cotton foliage. Under very heavy thrip pressure, additional control measures may be needed.								

ACCEPTED

APR 30 2001

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 3125-301

## RECOMMENDED APPLICATIONS

CROP	PEST	DOSAGE NEMACUR 15% G	REMARKS																		
FIELD CROPS continued Peanuts	Nematodes Thrips (early season reduction)	11 to 18.7 oz for any row spacing (or 10 to 17 lb per acre on 36-inch rows)	<p>Apply specified dosage per 1000 ft of row as a 12-inch band at planting. Incorporate the granules into the soil. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.</p> <p>Use the high rate in fields with high populations of nematodes, in fields where root-knot species other than southern root-knot, <i>Meloidogyne incognita</i>, are present or in fields having a history of serious nematode damage.</p> <p>Do not feed or graze green peanut vines or peanut vine hay. Do not hog down treated peanut fields.</p>																		
VEGETABLES Bok Choy (direct seeded only) (California only)	Nematodes	14.7 to 18.4 oz per 1000 ft of row for any row spacing	<p>Apply specified dosage in a 12- to 15-inch band over the row and incorporate. Refer to the table below for specific band width application rates. Treatment may be applied immediately before or at planting of direct seeded crop. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.</p> <table><tr><th>Bandwidth</th><th>oz/1000 ft of Row</th></tr><tr><td>12"</td><td>14.7</td></tr><tr><td>15"</td><td>18.4</td></tr></table>	Bandwidth	oz/1000 ft of Row	12"	14.7	15"	18.4												
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12"	14.7																				
15"	18.4																				
Cabbage (includes tight-heading varieties of Chinese cabbage) (direct seeded and transplanted) (Except cabbage grown for seed) Brussels sprouts (transplanted) (Except brussels sprouts grown for seed)	Nematodes	7.3 to 18.4 oz per 1000 ft of row for any row spacing	<p>Apply specified dosage in a 6- to 15-inch band over the row. Refer to table below for specific band width application rates. Application may be made prior to planting, during planting, after planting but prior to crop emergence (direct seeded cabbage), or immediately following transplanting. Treat a minimum band width of 6 inches per row for multiple rows on a single bed or a minimum 12-inch band width for a single row per bed. Use wider band width in fields with a history of nematode damage. Incorporate mechanically or with overhead irrigation. On narrow row spacing, do not allow bands to overlap. Do not treat more than 50% of the total field area. Do not make more than one application per crop season.</p> <table><tr><th>Bandwidth</th><th>oz/1000 ft of Row</th></tr><tr><td>6"</td><td>7.3</td></tr><tr><td>7"</td><td>8.6</td></tr><tr><td>8"</td><td>9.8</td></tr><tr><td>9"</td><td>11.0</td></tr><tr><td>9.5"</td><td>11.6</td></tr><tr><td>10"</td><td>12.7</td></tr><tr><td>12"</td><td>14.7</td></tr><tr><td>15"</td><td>18.4</td></tr></table>	Bandwidth	oz/1000 ft of Row	6"	7.3	7"	8.6	8"	9.8	9"	11.0	9.5"	11.6	10"	12.7	12"	14.7	15"	18.4
Bandwidth	oz/1000 ft of Row																				
6"	7.3																				
7"	8.6																				
8"	9.8																				
9"	11.0																				
9.5"	11.6																				
10"	12.7																				
12"	14.7																				
15"	18.4																				
Eggplant	Nematodes	14.7 oz (or 13.4 lb per acre for 36-inch rows)	Apply specified dosage per 1000 ft of row in a 12-inch band over the row at transplanting and immediately incorporate the granules into the soil. ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.																		
Garlic	Bulb and Stem Nematode	9.2 to 18.4 oz/1000 ft of planting furrow for any row spacing (15 to 30 lb per acre on 40-inch beds with two seed lines [rows] per bed)	Apply specified dosage in-furrow with the garlic seed (cloves) at planting. For best results, plant the crop within 7 to 10 days after cracking (seed preparation).																		
Okra (Except California)	Nematodes	14.7 to 18.4 oz (or 13.4 to 16.7 lb per acre on 36-inch rows)	<p>Apply specified dosage per 1000 ft of row as a 12- to 15-inch band at planting. Incorporate the granules into the soil. Use low rate in a 12-inch band. Use high rate in a 15-inch band.</p> <table><tr><th>BAND WIDTH</th><th>12-Inch</th><th>15-Inch</th></tr><tr><td>(36-inch row spacing)</td><td>14.7 oz/1000 ft of row</td><td>18.4 oz/1000 ft of row</td></tr><tr><td>or</td><td>13.4 lb/acre</td><td>16.7 lb/acre</td></tr></table> <p>ON NARROW ROW CROPS, DO NOT ALLOW BANDS TO OVERLAP.</p>	BAND WIDTH	12-Inch	15-Inch	(36-inch row spacing)	14.7 oz/1000 ft of row	18.4 oz/1000 ft of row	or	13.4 lb/acre	16.7 lb/acre									
BAND WIDTH	12-Inch	15-Inch																			
(36-inch row spacing)	14.7 oz/1000 ft of row	18.4 oz/1000 ft of row																			
or	13.4 lb/acre	16.7 lb/acre																			

RECOMMENDED APPLICATIONS			
CROP	PEST	DOSAGE NEMACUR 15% G	REMARKS
VEGETABLES continued Non-Bell Peppers (California, Georgia and Puerto Rico only)	Nematodes	10 to 14.7 oz for any row spacing (or 9 to 13.3 lb per acre on 36-inch rows)	Apply specified dosage per 1000 ft of row in a 12-inch band over the row at planting and incorporate the granules into the soil. Use the high rate in fields with high populations of nematodes or in fields having a history of serious nematode damage.
FRUIT Citrus <del>(In California do not apply to Kumquat, Tangelo or Citrus hybrids)</del> <del>(In Florida: For use on citrus in the counties of Brevard; Broward; Charlotte; Citrus; Collier; DeSoto; Glades; Hardee; Hendry; Hernando; Hillsborough; Indian River; Lee; Manatee; Marion; Martin; Okaloosa; Palm Beach; Pasco; Pinellas; Putnam; St Lucie; Sarasota; Seminole; and Volusia only.)</del>	Nematodes Citrus-root weevil complex including Fuller rose beetle <del>(Suppression)</del>	66 1/2 to 67 lb	Apply specified dosage per acre in a band in up to 2 applications per season; not to exceed 67 pounds of NEMACUR 15% Granular per acre per season. Apply to the soil with ground equipment and incorporate immediately using mechanical incorporation or irrigation. Enter the treated band on the tree row using a band width of 50% of the row spacing and covering the feeder root system of the plant.  Under dry conditions, follow with overhead or floor irrigation. Do not apply more than 10 pounds active ingredient (67 pounds of NEMACUR 15% Granular) per acre per season. Do not apply within 90 days of harvest. Do not graze livestock on treated areas. On non-bearing citrus make initial applications when trees have recovered from transplanting shock and have initiated new growth, provided that one or more irrigations have been applied and soil has settled around the roots. Phytotoxicity may occur if applications are made before soil has settled and plants are growing.
Pineapple (Puerto Rico only)	Nematodes	60 pounds	Apply specified dosage (9 lb active ingredient) per acre over the entire area to be treated before planting and thoroughly incorporate into the soil mechanically or with sufficient rainfall or irrigation (not to exceed the depth of the root zone).
<p>NOTE: Postplant applications of NEMACUR 3 can be made in addition to a preplant application of NEMACUR 15% Granular. Refer to the labeling of NEMACUR 3 for directions and dosage rates.</p> <p>Do not apply more than a total of 18 lb active ingredient per acre per crop season regardless of the formulation or method of application. Do not use forage or fodder for animal feed.</p>			

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## RECOMMENDED APPLICATIONS

CROP	PEST	DOSAGE NEMACUR 15% G	REMARKS												
FRUIT continued Strawberries	Nematodes	14.7 to 22 oz for any row spacing (or 12 to 18 lb per acre on 40-inch rows)	Apply specified dosage per 1000 ft of row in a 12- to 18-inch band over the row and incorporate immediately by cultivation or by sprinkler irrigation prior to transplanting. Do not apply more than one application. Do not apply within 110 days of harvest. Apply by ground equipment only.  <table><tr><td>BAND WIDTH</td><td>12-INCH</td><td>18-INCH</td></tr><tr><td>(40-inch rows)</td><td>14.7 oz/1000 ft</td><td>22 oz/1000 ft</td></tr><tr><td></td><td>or</td><td>or</td></tr><tr><td></td><td>12 lb/acre</td><td>18 lb/acre</td></tr></table> Use the maximum band width and rate in fields with high populations of nematodes or in fields having a history of serious nematode damage.	BAND WIDTH	12-INCH	18-INCH	(40-inch rows)	14.7 oz/1000 ft	22 oz/1000 ft		or	or		12 lb/acre	18 lb/acre
BAND WIDTH	12-INCH	18-INCH													
(40-inch rows)	14.7 oz/1000 ft	22 oz/1000 ft													
	or	or													
	12 lb/acre	18 lb/acre													
Non-bearing Strawberry nursery stock	Nematodes	17 oz for any row spacing or 13.8 pounds per acre (on 40-inch rows)	Apply specified dosage per 1000 ft of row in a 12-inch band over the row immediately after transplanting and incorporate with cultivation equipment. Apply a second application in a 12-inch band over the row 8 weeks after transplanting. Incorporate by cultivation or by sprinkler irrigation (1 inch of water) immediately following application. Do not apply more than two applications to non-bearing nursery stock. Use only on strawberry nursery stock that will not be harvested for fruit within 20 months after application.												

## RESTRICTIONS

Any food crop not specified on this label may be planted into treated areas 120 days after the last application. Any cover crops that are planted during the 120 day period must be plowed under and not grazed.

Do not use on other crops. Use only according to label directions.

Do not apply this product with a knapsack or similar equipment that is placed on the user's body.

When used on erodible soils, best management practices for minimizing runoff should be employed. Consult your local Soil Conservation Service for recommendations in your use area.

Do not apply within 100 feet of the following aquatic areas: lakes, reservoirs, rivers, permanent streams, marshes, natural ponds and estuaries.

Do not cultivate within 10 feet of an aquatic area to allow growth of a vegetative filter strip.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Emergency Response Team for decontamination procedures or any other assistance that may

be necessary. The Bayer Kansas City Emergency Response Telephone No. is 800-414-0244, or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Do not use container in connection with food, feed, or drinking water. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.