



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

OCT 3 2002

Mr. Melvin K. Tolliver
Bayer Corporation
Agriculture Division
8400 Hawthorn Road
P.O. Box 4913
Kansas City, MO 64120-0013

Dear Mr. Tolliver:

Subject: Labeling Amendment as Required During Reregistration
Nemacur 10% - Turf and Ornamental Nematicide
EPA Reg No 3125-237
Your Correspondence Dated May 31, 2002

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment.

Please correct the label for the following typographical error: under Storage and Disposal - third paragraph, it should read "spillage" instead of "pillage."

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RESTRICTED USE PESTICIDE

Due to High Acute Toxicity and Toxicity to Wildlife

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

Nemacur[®] 10%

Turf and Ornamental Nematicide

For effective control of nematodes in ornamentals, nursery stock, and turfgrasses.

ACTIVE INGREDIENT:

Ethyl 3-methyl-4-(methylthio)phenyl -
(1-methylethyl)phosphoramidate 10%

INERT INGREDIENTS 90%
100%

EPA Reg. No. 3125-237

Net Weight: ___ Pounds

STOP - Read the label before use.

Keep out of reach of children.

POISON

DANGER



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.)

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

OCT 3 2002

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

3125-
237

FIRST AID

Contains an organophosphate that inhibits cholinesterase.

If swallowed	<ul style="list-style-type: none"> 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. Call a poison control center or doctor immediately for further advice. Do not give anything by mouth to an unconscious person.
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If on skin or clothing	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
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If in eyes	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
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If inhaled	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
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In case of emergency call toll free the Bayer Kansas City Emergency Response Telephone No. 800-414-0244. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

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.

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

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

DANGER: Fatal if swallowed or absorbed through the skin. Causes eye irritation. May be fatal if inhaled. Do not get in eyes, on skin, or on clothing. Do not breathe dust.

Do not contaminate feed or food. Keep out of the reach of children.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate and viton. If you want more options, follow the instructions for category G on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- coveralls over long-sleeved shirt and long pants,
- chemical-resistant gloves,
- chemical resistant footwear plus socks,
- chemical-resistant headgear (if overhead exposure),
- A NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any N, R or P or He prefilter.

In addition, mixers, loaders and cleaners of equipment must wear a chemical-resistant apron.

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statements: When handlers use closed systems or 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.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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 contaminate water when disposing of equipment washwaters. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark.

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 drift. 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 regulations.

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, 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-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated areas without the 48-hour restriction if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- coveralls worn over long-sleeve shirt and long pants,
- chemical-resistant gloves made of any waterproof material,
- chemical-resistant footwear plus socks, and
- chemical-resistant headgear (if overhead exposure)

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not allow reentry into treated areas until areas are dry following irrigation after application unless appropriate protective clothing is worn.

IMPORTANT: Read these entire Directions and Conditions of Sale before using NEMACUR 10% Turf & Ornamental 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.

TURFGRASSES, ORNAMENTALS AND NURSERY STOCK

NEMACUR 10% Turf and Ornamental Nematicide has shown excellent activity against the major genera of nematodes attacking turfgrasses and ornamental plants. When used according to directions NEMACUR 10% Turf and Ornamental Nematicide may control nematodes up to 7 months or longer.

NEMACUR 10% Turf and Ornamental Nematicide kills nematodes by contact action. Treated areas should be irrigated immediately after application in order to move the toxicant into the root zone.

NEMACUR 10% Turf and Ornamental Nematicide can be used on turfgrasses such as Bermuda and centipede grasses, bluegrasses, and bentgrasses. When applied uniformly according to directions, it will not harm established turfgrasses listed. Do not apply to newly seeded areas until the plants have developed good root systems.

Check equipment calibration frequently.

Consult your local Bayer Representative, Agricultural Experiment Station or Extension authorities for information regarding proper timing of applications to turf.

RECOMMENDED APPLICATIONS		
USE	PEST	DOSAGE NEMACUR 10% T&O NEMATICIDE
Turfgrasses FOR USE ONLY ON GOLF COURSES, CEMETERIES, SOD FARMS, AND INDUSTRIAL GROUNDS. In California, only for use on golf courses and sod farms.	Nematodes	2.3 lb per 1000 sq ft or 100 lb/acre
Distribute specified dosage evenly over area to be treated. Irrigate the treated area immediately following application. Apply a minimum of 1/2 inch of water to move the product into the soil. The total irrigation must be completed within 6 hours of application. Apply irrigation only so that puddling or runoff does not occur. On golf course fairways apply across fairways within irrigation zones. Irrigation should be applied by zone immediately following application within that zone. Do not apply to more fairway irrigation zones than can be irrigated upon completion of application and finished within 6 hours after treatment. Do not treat more than 10 acres of turf on any golf course in a single 24-hour period. Any application, regardless of acreage, must be followed by a three-day minimum interval before an additional 10 acres or less may be treated. Do not apply within 10 feet of any surface body of water or fairway surface drains. Do not apply NEMACUR between noon and sunset during the heavy thunderstorm season (June through September). Do not apply product after soil has become saturated with water (reached field capacity). Do not treat newly seeded areas until the plants have developed good root systems. Do not apply more than 200 lb of product per acre per year. Do not use on residential lawns or public recreational areas other than golf courses. On sod farms, treated turf should not be cut for sod or sod handled for 30 days after treatment.		

RECOMMENDED APPLICATIONS		
USE	PEST	DOSAGE NEMACUR 10% T&O NEMATICIDE
Flowers Iris, Lily and Narcissus bulbs (Except California)	Nematodes	60 to 100 lb per acre (based on 42-inch rows-12,445 linear feet of row per acre) or 4.8 to 8 lb per 1000 feet of row
Apply specified dosage in the furrow at time of planting so that the material is incorporated into the covering soil, or in a 10- to 12-inch band over the row after planting. NOTE: On year-old plantings, apply over the row. Irrigate immediately after treatment using a minimum of 1/2 inch of water. Tolerance of bulbs to NEMACUR may vary with varieties. Test a small number of plants if tolerance is not locally known. Do not apply to green foliage. Do not make more than one application per crop season. Do not exceed 100 lb per acre per season regardless of row spacing or formulation used.		
Leatherleaf fern	Nematodes	90 lb per acre
Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 2 inch of water. Do not exceed 90 lb per acre per season.		
Protea <i>Leucospermum</i> spp. <i>Protea</i> spp. <i>Banksia</i> spp. <i>Leucadendron</i> spp. (Hawaii Only)	Nematodes	18.3 to 36.7 oz per 1000 sq ft or 50 to 100 lb per acre
Distribute specified dosage evenly over area to be treated as a post-plant application. Incorporate into the upper 2 to 3 inches of soil and irrigate treated area immediately using a minimum of 1/2 inch of water. Do not apply more than 100 lb per acre per year.		
Anthurium	Nematodes	18.3 to 36.7 oz per 1000 sq ft or 50 to 100 lb per acre
Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water. Do not apply more than twice in any one 12-month period. Do not apply more than 100 lb per acre per year.		

RECOMMENDED APPLICATIONS		
USE	PEST	DOSAGE NEMACUR 10% T&O NEMATICIDE
Nursery Stock <i>Ajuga</i> (<i>Ajuga metallica</i> c.) Azalea (<i>Rhododendron</i> spp.) Boxwood (<i>Buxus</i> spp.) Cactus (<i>Cactus</i> spp.) Clematis (<i>Clematis</i> spp.) Cotoneaster (<i>Cotoneaster</i> spp.) Euonymus (<i>Euonymus</i> spp.) Firethorn (<i>Pyracantha</i> spp.) Flowering crab (<i>Malus</i> spp.) Flowering cherry (<i>Prunus</i> spp.) Gardenia (<i>Gardenia</i> spp.) Holly (<i>Ilex</i> spp.) Hibiscus (<i>Hibiscus</i> spp.) Ivy (<i>Hedera helix</i> <i>baltica</i>) Juniper (<i>Juniperus</i> spp.) Lilies (<i>Hosta grandiflora</i>) Pachysandra (<i>Pachysandra</i> spp.) Periwinkle (<i>Vinca minor</i>) Pieris (<i>Pieris japonica</i>) Pine (<i>Pinus</i> spp.) Rhododendron (<i>Rhododendron</i> spp.) Rose (<i>Rosa</i> spp.) Sedum (<i>Sedum</i> spp.) Spruce (<i>Picea</i> spp.) Viburnum (<i>Viburnum</i> spp.) Yews (<i>Taxus</i> spp.) Yucca (<i>Yucca</i> spp.)	Nematodes	50 to 100 lb per acre
Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water. Do not consume fruit or nuts from treated plants. Do not exceed 100 lb per acre per season regardless of formulation used. If nursery stock other than those listed are to be treated, treat a few plants first and observe for phytotoxicity before treating on a large scale. In addition to the 48 hour REI, for a 7-day period following completion of an application, waterproof gloves and chemical-resistant footwear plus socks must be worn when entering treated fields that are muddy.		

Recommended Spreader Settings for Applications to Turf		
These spreader settings are starting points for equipment calibration. As spreader age and condition, and terrain roughness have an effect on delivery rates, individual spreaders should be calibrated to determine the correct setting.		
Spreader Type	SPREADER SETTING TO DELIVER 2.3 lb of NEMACUR 10% T&O NEMATICIDE Per 1000 Sq Ft	Applicator Speed
Cyclone B-1	3.25	3 mph
Gandy	17.5	2 mph
	24.5	4 mph
10-T	6.75	2 mph
	16.5	4 mph
603	7.5	2 mph
	11.25	4 mph
604	7.5	2 mph
	10.75	4 mph
605	7.5	2 mph
	10.75	4 mph
Turf Tender	17	2 mph
	21	4 mph
Lesco 101	C+	3 mph
Scotts' RX-7	A+	3 mph
Scotts' RX-8	G+	3 mph

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 or plants not covered by the label. Use only according to label directions. Do not allow livestock or poultry to feed on grass or grass clippings.

Do not apply this product with a knapsack applicator or similar equipment that is placed on the user's body. Apply this product with a tractor-drawn or push spreader only.

For all applications that require overhead irrigation for incorporation, do not apply between noon and sunset during the heavy thunderstorm season (June through September).

For all applications that require sprinkler irrigation for incorporation, "irrigation must occur with 6 hours of the application.

After May 31, 2005, do not apply to hydrologic soil group A soils that are excessively drained and predominately sand or loamy sand such as soils in the suborder psamments with shallow water tables (less than 50 feet deep). These classifications and soil taxonomy refer to USDA definitions. If you are unsure of the type of soil you are treating, please consult with you county's extension agent or the product manufacturer.

Bayer Corporation
Crop Protection
Box 4913
Kansas City, MO 64120-0013
(800) 842-8020
<http://uscrop.bayer.com>

STORAGE AND DISPOSAL

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

Pesticide Storage: Not for use or storage in or around the home. 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 pillage. 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 Number 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.

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