


PM 22 3125-237 3-6-97 1 of 8

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 05-31-98

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration	OPP Identifier Number 24719J
		<input type="checkbox"/> Amendment	
		<input checked="" type="checkbox"/> Other	

Application for Pesticide - Section I

1. Company/Product Number 3125-237	2. EPA Product Manager Cynthia Giles-Parker	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Nemacur 10% Turf and Ornamental Nematicide	PM# 22	
5. Name and Address of Applicant (Include ZIP Code) Bayer Corporation 8400 Hawthorn Road Kansas City, MO 64120 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

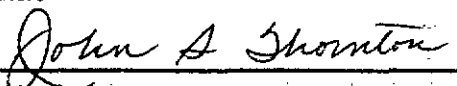
Notification of revising advisory statement per PR Notice 95-2.
See attached.

NOTIFICATION
MAR 6 1997

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted					
If "Yes" Unit Packaging wgt. _____ No. per container _____		If "Yes" Package wgt. _____ No. per container _____			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Melvin Tolliver	Title Regulatory Affairs Specialist	Telephone No. (Include Area Code) (816) 242-2150
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Director, Product Registrations and Regulatory Affairs	
4. Typed Name John S. Thornton	5. Date 2-19-97	

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Nemacur 10% Turf and Ornamental Nematicide is currently registered for use on turf at the rate of 2.3 pounds per 1000 square feet. We recently noticed that one of the column headings recommending spreader settings in a table on our label was confusing (see page 6 of enclosed draft labeling). Therefore, as permitted by PR Notice 95-2, we are revising the column heading which currently reads "Dosage Nemacur 10% T&O Nematicide Per 1000 Sq. Ft., 2.3" to read "Spreader Settings to Deliver 2.3 Lb. of Nemacur 10% T&O Nematicide Per 1000 Sq. Ft." Enclosed is draft labeling, dated February 13, 1997, in which words being added are indicated by redlining and words deleted by strikeouts.

This notification is consistent with the provision of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Figure 1 displays 16 small plots arranged in a 4x4 grid, illustrating the spatial distribution of 16 different species. Each plot shows a unique arrangement of black dots representing the species' locations. The species are labeled with numbers 1 through 16, with some numbers appearing multiple times in different plots.

Nemacur 10% T&O

237-8919.YLD

U.S. LABEL

Base Pre-Reg. (8919)

Reason to Issue: To revise heading on spreader setting table.

Date of Draft: 02/13/97 (T)

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® 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

DANGER
NOTIFICATION
MAR 6 1997



POISON

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 added is highlighted by redlining

Text being deleted is highlighted by ~~strikeout~~

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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

Applicators and other handlers must wear:

- Chemical-resistant protective suit
- Water-proof 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 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 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, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the

AGRICULTURAL USE REQUIREMENTS continued

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 under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants,

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NEMACUR 10% Turf and Ornamental Nematicide

AGRICULTURAL USE REQUIREMENTS continued

soil, or water, is:

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

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.

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NEMACUR 10% Turf and Ornamental Nematicide

RECOMMENDED APPLICATIONS			
USE	PEST	DOSAGE NEMACUR 10% T&O NEMATICIDE	REMARKS
Turfgrasses FOR USE ONLY ON GOLF COURSES, CEMETERIES, SOD FARMS, AND INDUSTRIAL GROUNDS. In <u>California</u> , 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.
			<p>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).</p> <p>Do not apply product after soil has become saturated with water (reached field capacity).</p> <p>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.</p> <p>On sod farms, treated turf should not be cut for sod or sod handled for 30 days after treatment.</p>
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.
Leather leaf fern	Nematodes	100 lb per acre	Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water.
Protea <i>Leucospermum</i> spp. <i>Protea</i> spp. <i>Banksia</i> spp. <i>Leucadendron</i> spp. (Hawaii Only)	Nematodes	1 to 2.25 lb per 1000 sq ft (45 to 97.5 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 twice 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.

RECOMMENDED APPLICATIONS			
USE	PEST	DOSAGE NEMACUR 10% T&O NEMATICIDE	REMARKS
Nursery Stock [Ajuga (<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	100 lb per acre	<p>Apply specified dosage uniformly to the area. Irrigate immediately after treatment using a minimum of 1/2 inch of water.</p> <p>Do not apply more than twice per year per planting site. Do not consume fruit or nuts from treated plants.</p> <p>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.</p> <p>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.</p>

8048

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	DOSAGE SPREADER SETTING TO DELIVER 2.3 lb of NEMACUR 10% T&O NEMATICIDE lb Per 1000 Sq Ft 2.3	Applicator Speed	Spreader Width
Cyclone B-1	3.25	3 mph	6 ft
Gandy			
10-T	17.5	2 mph	
	24.5	4 mph	
603	6.75	2 mph	
	16.5	4 mph	
604	7.5	2 mph	
	11.25	4 mph	
605	7.5	2 mph	
	10.75	4 mph	
Turf Tender	17	2 mph	
	21	4 mph	
Lesco 101	C+	3 mph	6 ft
Scotts' RX-7	A+	3 mph	6 ft
Scotts' RX-8	G+	3 mph	6 ft

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.

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 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 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.

Bayer Corporation
Garden & Professional Care
Box 4913, Kansas City, MO 64120-0013

