

U.S. LABEL

Reason to Issue: Add disposal
statement for plastic container.

Date of Draft: 4/2/90 (T)
Supersedes Draft Dated: 10/21/88

EPA Reg. No. 3125-283

RESTRICTED USE PESTICIDE


For Sale to and Use Only by a Certified Applicator for Uses Authorized
By His Certification, or By Persons Under His Direct Supervision.

NEMACUR® 3

EMULSIFIABLE SYSTEMIC INSECTICIDE - NEMATICIDE

FOR EFFECTIVE CONTROL OF NEMATODES
IN CITRUS

KEEP OUT OF REACH OF CHILDREN

DANGER  POISON

(See Rear Panel for Statements of
Practical Treatment and Other
Precautionary Statements.)

PELIGRO

PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use
este producto hasta que la etiqueta le haya sido explicada ampliamente.
(TO THE USER: If you cannot read or understand English, do not use this product
until the label has been fully explained to you.)

Do not store below 32°F. Keep in
a cool dry place. Do not use or
store near heat or open flame.

ACTIVE INGREDIENT:

Ethyl 3-methyl-4-(methylthio)phenyl
(1-methylethyl)phosphoramidate 35%

INERT INGREDIENTS: 65%
100%

Contains Aromatic Petroleum Distillates

EPA Reg. No. 3125-283

Contains 3 pounds of Ethyl 3-methyl-4-
(methylthio)phenyl (1-methylethyl)
phosphoramidate per gallon.

STOP - READ THE LABEL BEFORE USE

NET _____ GALLONS

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MOBAY CORPORATION
A Bayer USA INC. COMPANY
AGRICULTURAL CHEMICALS DIVISION
Box 4913, Kansas City, Missouri 64120

DATE **APR 17 1990**

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

IMPORTANT: Read these entire Directions and Conditions of Sale before using NEMACUR 3 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. MOBAY 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 MOBAY AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

NEMACUR 3 may be applied by ground equipment or low pressure irrigation (Chemigation). Do not apply by mist sprayer or aerial spray equipment.

Ground Application Equipment: Unless otherwise specified, apply NEMACUR 3 in a minimum of 20 gallons of water per treated acre. Maintain sufficient agitation during application to insure a uniform mixture. Incorporate NEMACUR 3 immediately after application for best results.

CHEMIGATION

Apply NEMACUR 3 only through low pressure irrigation equipment (including drip, mini-sprinklers, strip tubing and jets). Do not apply NEMACUR 3 through any other type of irrigation system.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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CHEMIGATION (Continued)

Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the areas intended for treatment.

A pesticide supply tank is not necessary for premixing since NEMACUR 3 mixes well with water in the irrigation line. If a pesticide supply tank is used, add NEMACUR 3 to water in supply tank and maintain sufficient agitation during application to insure a uniform mixture.

Begin irrigation and check emitters to insure all systems are operating normally. Make NEMACUR 3 injection in the first 1/3 to 1/2 of the irrigation with an injection time of at least 30 minutes. Maintain the system's operating pressure low enough to prevent fogging and/or misting during application. Inject NEMACUR 3 into the irrigation system after the filter(s). Continue irrigation until system's lines are flushed.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Posting: Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, inpatient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads; or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements: Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

RECOMMENDED APPLICATIONS

Mixing: NEMACUR 3 mixes readily with water. No special premixing should be required if used in spray equipment equipped with a recirculation system or agitation. If the spray mixture is allowed to sit overnight, redispersion is readily obtained by agitation or recirculation.

Tank Mixing: NEMACUR 3 can be tank mixed with registered fungicides, herbicides and insecticides. Observe all cautions and limitations on labeling of all products used in tank mixtures.

Compatibility: NEMACUR 3 is physically compatible with many registered pesticides and liquid fertilizers. To determine the compatibility of NEMACUR 3 with other products, the following procedure should be followed: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least five (5) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible. It is recommended that combinations not be allowed to sit overnight due to possible crystal growth, clabbering, etc. For further information contact your local Mobay representative.

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

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NEMACUR 3 Emulsifiable insecticide - nematocide

RECOMMENDED APPLICATIONS

CROP	PEST	DOSAGE OF NEMACUR 3	REMARKS
FRUIT Citrus (Except Arizona, California and Texas)	Nematodes	1 2/3 to 3 1/3 gallons	<u>Band</u> : Apply specified dosage in not less than 10 gallons of solution per acre to the soil with ground equipment and incorporate immediately.* Two applications may be made per season, not to exceed 3 1/3 gallons per acre. Center 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.
		2 quarts to 1 1/2 gallons	<u>LOW PRESSURE IRRIGATION</u> : Apply specified dosage per acre to the soil in 1 to 6 applications with at least 14 days between applications using a minimum of 1 1/2 gallons to a maximum of 3 gallons of NEMACUR 3 per acre per season.
	<p>*Incorporate this product into the soil mechanically or supply sufficient irrigation (not to exceed the depth of the root zone). Control of nematodes is best obtained when there is adequate rainfall or irrigation after application. Under dry conditions, follow with irrigation.</p> <p>Do not apply within 30 days of harvest.</p> <p>Do not exceed 10 pounds active ingredient (3 1/3 gallons of NEMACUR 3) per acre in a 50% band or 3 gallons of NEMACUR 3 (9 pounds active ingredient) per acre by low pressure irrigation per season. Do not graze livestock in treated areas.</p> <p>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.</p>		

RESTRICTIONS

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

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.

PROTECTIVE CLOTHING AND EQUIPMENT

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT DURING MIXING/LOADING, APPLICATION, REPAIR AND CLEANING OF MIXING, LOADING AND APPLICATION EQUIPMENT, DISPOSAL OF THE PESTICIDE, AND EARLY REENTRY INTO TREATED AREAS: Protective suit of one or two pieces covering all parts of the body except head, hands, and feet; chemical-resistant gloves; chemical-resistant shoes (or chemical-resistant shoe covers or chemical-resistant boots); and a NIOSH- or MSHA-approved respirator. In addition, mixer/loaders must wear a chemical-resistant apron. During equipment repair and cleaning, the respirator need not be worn. During early reentry after sprays have dried and vapors have dispersed, the respirator need not be worn.

PROTECTIVE CLOTHING AND EQUIPMENT (Continued)

IF MIXING/LOADING IS PERFORMED USING A CLOSED SYSTEM, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeved shirt and long-legged pants; chemical-resistant gloves; chemical-resistant apron; shoes and socks. Goggles or face shield must be worn if the system is under pressure.

IF APPLICATION IS PERFORMED USING AN ENCLOSED CAB, THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT MAY BE WORN AS AN ALTERNATIVE: Long-sleeved shirt and long-legged pants; shoes, and socks. Chemical-resistant gloves must be available in the cab and must be worn when exiting. This clothing is inadequate to protect you during equipment repair or cleaning, reentry, or pesticide disposal work.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

AFTER WORK: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Wear clean clothes. Do not reuse contaminated clothing. Personal clothing worn during work must be laundered separately from household articles. Store protective clothing separately from personal clothing. Clean or launder protective clothing after each use. Respirators must be cleaned and filters replaced according to instructions included with the respirator. Protective clothing and equipment that becomes heavily contaminated or drenched must be destroyed according to state and local regulations. HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

RE-ENTRY STATEMENTS

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not reenter treated area for 48 hours unless appropriate protective clothing is worn.

Any person coming in direct contact with treated water, and/or treated soil prior to incorporation or irrigation, or with treated wet soil after the initial irrigation, must wear protective clothing and equipment as described in the sections "Protective Clothing and Equipment" on this label. Wash thoroughly with soap and water after handling and before eating or smoking.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

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(The following may appear on supplemental labeling accompanying the product)
Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label headings "Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: DANGER, area treated with NEMACUR 3 on (date of application). See "Protective Clothing and Equipment" for use of proper protective clothing. 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 swallowed, vomiting should be induced. (See Precautionary Statements on label).

STORAGE AND DISPOSAL

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

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, 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:

Metal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Plastic: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Do not store below 32°F. Do not store near heat or open flame. 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 container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Mobay Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Mobay Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER



POISON

Fatal if swallowed or absorbed through the skin. Causes irreversible eye damage. May be fatal if inhaled. Do not get in eyes, on skin or on clothing. Wear protective clothing, rubber gloves, and goggles or face shield when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Do not breathe vapors or spray mist. Wear a mask or respirator jointly approved by the Mine Safety and Health Administration and by the National Institute for Occupational Safety and Health.

Do not contaminate feed or food. Keep out of reach of children. Keep all unprotected persons out of the operating area or vicinity.

NEMACUR 3 Emulsifiable insecticide - nematicide

HANDLING OF CONTAMINATED ARTICLES: Clothing and rags receiving undiluted NEMACUR 3 as a result of leaks, spills, or mishaps should be removed immediately and not reused. These contaminated articles should be buried in the same manner as the empty container: see container disposal section for directions. (Contaminated articles which should be discarded would include: hats, gloves, aprons, coats, boots, etc. not made of rubber or coated with rubber or other similar materials). Clothing receiving spray mist or droplets from the mixed, diluted NEMACUR 3 should be removed and decontaminated before reuse. This clothing can be decontaminated by machine washing separately from other items with soap or detergent and bleach in hot water twice before reuse. Protective clothing and equipment should be washed down with detergent or soap and bleach in water. Wash water from the cleaning of protective clothing or equipment should not be allowed to run off or otherwise enter water supplies.

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

STATEMENTS OF PRACTICAL TREATMENT

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.

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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water or wetlands (swamps, bog, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

Do not use mist sprayers. Use only coarse sprays directed at soil to eliminate spray drift.

Aerial application of this product is prohibited.

NEMACUR is a Reg. TM of Bayer AG, Germany.

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