

Reg no: 37507-3

PM-21

1 of 6

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION NO.	DATE OF ISSUANCE
	37507-3	5-29-90
<b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide and Rodenticide Act, as amended)	TERM OF ISSUANCE	
	Conditional NAME OF PESTICIDE PRODUCT Transbas Nemasol 510	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Transbas, Inc.  
 P.O. Box 47  
 Billings, MT 59103

selective

246121	160
2	18

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 37507-3."
  - b. In the substatement under the ingredient statement, indicate that the weights (oz/l and lb/gal) refer to active ingredient.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
<i>[Signature]</i>	5-29-90

EPA Form 6570-6 (Rev. 5-76)

PREVIOUS EDITION MAY BE USED UNTIL SUPPLY IS EXHAUSTED.

55164; I:CR-31:Stone:R-13:KEMCO:01/26/90:02/21/90:ka:sw:vo:ek:dg

296

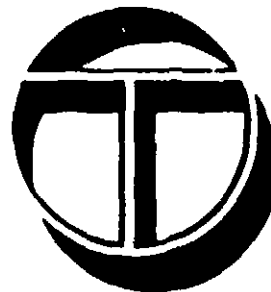
-2-

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFPA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Susan Lewis  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosures



Transbas

# NEMASOL 510

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 29 1990

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

37507-3

Soil Fumigant Solution For All Crops.

CONTROLS WEEDS, WEED SEEDS, NEMATODES,  
SOIL INSECTS & SOILBORNE DISEASES AS LISTED.

ACTIVE INGREDIENT:	
Sodium methylthiocarbamate (anhydrous) .....	42%
INERT INGREDIENTS: .....	58%
TOTAL	100%

Equivalent to 510 grams/liter or 4.26 lbs./gallon.

EPA REG. NO. 37507-

EPA EST. NO. 37507-MT-1

KEEP OUT OF REACH OF CHILDREN

**WARNING**

**AVISO**

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Manufactured for  
Transbas, Inc.  
P.O. Box 957      Billings, MT 59103

NET CONTENTS \_\_\_\_\_ GALLONS

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

May be fatal if swallowed, inhaled, or absorbed through skin. Do not breathe vapors or spray mist. Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. In case of contact, immediately remove contaminated clothing. Wash and dry clothing before reuse. When applying in enclosed area, wear a mask or respirator of a type approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part II for applying this product. Wear impervious boots or shoe covers. Do not store near food or feed. Keep children and pets out of treated areas.

**STATEMENT OF PRACTICAL TREATMENT**

**FIRST AID:** Immediately start the procedures given below and contact a Poison Center, a physician, or the nearest hospital. Report the type and extent of exposure, describe the victim's symptoms, and follow the advice given.

**If on skin:** Remove contaminated clothing immediately. Wash with plenty of soap and water. Get medical attention immediately.

**If in eyes:** Immediately flush eyes with plenty of running water. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

**If inhaled:** Remove to fresh air. If not breathing, clear the victim's airway and start mouth-to-mouth artificial respiration. If breathing is difficult, give oxygen, preferably with a physician's advice. Get medical attention immediately.

**If swallowed:** Immediately give several glasses of water but do not induce vomiting. If vomiting does occur, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Do not give anything by mouth to an unconscious or convulsing person.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

**DIRECTIONS FOR USE**

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

**PRODUCT INFORMATION**

NEMASOL 510 is a water soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous fumigant. After a sufficient interval of time, the gas dissipates leaving the soil ready for planting. NEMASOL 510 is recommended for the control of the following soil-borne pests that attack ornamental, food and fiber crops. Weeds and germinating weed seeds (annual bluegrass, Bermuda grass, chickweed, dandelion, rigweed, henbit, lamb's quarters, Amaranthus sp. (pigweed, careless weed), watergrass, Johnson grass, nutgrass, wild morning glory and purslane), certain nematodes (such as root knot, sting, and lesion), symphylids (garden centipede); and soil-borne diseases (Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak root fungus and club root of crucifers).

**STORAGE AND DISPOSAL**

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly.

**STORAGE:** Do Not Store Below 0°F. Product crystallizes at lower temperatures. Warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use. Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions, such as humidity or pallet overhang, can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**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). Puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT USE PRECAUTIONS**

READ ENTIRE LABEL CAREFULLY BEFORE USE! FAILURE TO FOLLOW ALL DIRECTIONS AND PRECAUTIONS CAREFULLY COULD RESULT IN CROP (PLANT) DAMAGE OR POOR PRODUCT PERFORMANCE.

1. Keep children and pets out of treated areas.
2. Prepare soil as directed under "SOIL PREPARATION" section.
3. Avoid use when the soil temperature is extremely high (over 90°F two inches deep). Pest control will be impaired under such conditions.
4. To prevent loss from evaporation, use only at times when air temperature is moderate and there is little wind movement.
5. Do not apply to the soil surface, as in the sprinkler method, when air temperature is over 90°F or when low

humidity or high winds would cause loss of NEMASOL 510 before it can be drenched into the soil with additional water.

- 6. This product is toxic to all growing plants. Do not apply within 3 to 4 feet of desirable plants or 3 to 4 feet of drip line of desirable trees and shrubs. If slopes are treated with this product, take precautions to prevent the chemical from washing downward to growing plants.
- 7. Adequate data is not available to support the use of this product in propagating beds composed of materials other than soil or soil and peat mixtures.
- 8. Do not use in confined areas without adequate ventilation. Do not apply where fumes may enter nearby houses containing growing plants.
- 9. Vapors from soil treated with this product in greenhouses and cold frames may injure growing plants.
- 10. Keep container tightly closed.
- 11. Fumigation may sometimes slow down the rate of nitrification (the conversion to nitrate from ammonia by bacterial action). Certain ammonia-sensitive plants, therefore, may exhibit growth inhibition when planted in fumigated soils containing high amounts of ammonia nitrogen. To lessen this hazard, at least 1/2 and preferably all of the nitrogen fertilizer added immediately before or soon after fumigation should be in the form of nitrate nitrogen. This hazard may also be reduced by delaying planting until several months after fumigation, such as fall fumigation before a spring planted crop. If a nitrate form of nitrogen such as sodium or calcium nitrate is not readily available, ammonium nitrate used sparingly will supply the nitrogen needed without risk. Phosphorus, potassium and other plant nutrients should be used according to soil needs.

**APPLICATION THROUGH IRRIGATION SYSTEMS—CHEMIGATION**

Apply this product only through sprinklers, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; or border irrigation systems. Do not apply this product through any other type of irrigation system.

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.

Note: Transbas, Inc. does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

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.

**SPRINKLER CHEMIGATION**

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.

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 area intended for treatment.

**FLOOD (BASIN), FURROW AND BORDER CHEMIGATION**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a. 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.
- b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- c. 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.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

- e. 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.
- f. 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.

**SOIL PREPARATION**

- 1. The area should be in seedbed condition with a fine tilth, free of clods. Do not apply to dry or improperly tilled soil. Repeated cultivation prior to treatment will improve control of perennial weeds. Cultivation should be made a week before treatment. Ditching (if practical) around site will prevent weed seeds, nematodes, and fungi from washing into the treated area and contaminating it.
- 2. For optimal results, the soil to be fumigated must have sufficient moisture for good plant growth (at least 50% field capacity) for 5 to 14 days (depending on temperature) before the treatment. The weed seeds in such an optimally moist soil become ready to germinate and in this condition are most reliably killed. Heavy soils may need to be irrigated twice to achieve the necessary soil moistness. Weed seeds or seeds bearing nematodes must be mechanically hoed or plowed into the soil 1 to 2 weeks before fumigation so that the emerging weeds and nematodes are subject to fumigation.
- 3. If root-knot nematodes must be controlled, application should be delayed until the root-knot infested root residues have begun to rot. This is at least 2 to 3 weeks after the crop has been harvested and the remaining plant refuse tilled into the soil.
- 4. Farmyard manure, peat and other organic fertilizers, burnt lime or lime nitrogen should not be applied just before, along with, or just after this product. (See also "IMPORTANT USE PRECAUTIONS" section).
- 5. After treatment, the soil has to be kept uniformly moist for 5-7 days. As soon as possible after treatment, the soil should be sealed to retain the concentration of gases in the soil. This can be achieved by:
  - a. Compacting the soil surface after treatment with a roller to smooth and compact the soil surface.
  - b. M "tining" soil surface (1/4" to 3/8" deep) after treatment so that a crust forms. Surface compaction and sealing with water can be combined if desired and conditions warrant. Additional moistening of the soil may be required on the 3rd and 4th days to prevent soil surface cracks.
  - c. In difficult situations, for example heavy soils with high peat pressures or where potential for extensive sheet or rill erosion exists, best results may be obtained by tarping the treated areas. The activity of NEMASOL 510 is increased by the use of a tarp (plastic, paper or fabric) spread loosely over the treated area and secured to prevent removal by wind. Keep covered for a minimum of 48 hours. Seven days after treatment cultivate area to depth of 2 inches to aerate the soil. Do not seed earlier than 21 days after application when tarping method is used.
- 6. USE PROMPTLY AFTER MIXING WITH WATER. DO NOT ALLOW SOLUTION TO STAND. Flush all equipment with water after each day's use. Disassemble valves and clean carefully.
- 7. If fumes become unpleasant during treatment, apply more water to seal fumes into the soil where they should be confined to achieve maximum fumigant benefit.

**CULTIVATION AND PLANTING AFTER APPLICATION—ALL USES**

Replanting of treated area is possible only after a certain period of time. This span between treatment and replanting depends on the temperature, moisture, and structure of the soil. On well drained soils of light to medium texture which are not excessively wet or cold following application, planting may take place 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or remain wet and/or cold (below 50°F) following application of NEMASOL 510, a minimum interval of 30 days should be observed. Where dosages are greater than 7.5 gal. per acre, wait at least 60 days. On heavy, wet soils, light surface cultivation to break up crusting and promote drying of the soil should be done 6 to 7 days after application. This cultivation may be repeated as necessary. Do not plant any crop until all fumigant odors have dissipated from the air and are no longer detected. Fair soil treatment is recommended if early safety planting is necessary. As an added precaution, plant a few radish seeds which should germinate in about 5 days. After plant a few seeds in an untreated area for comparison. If plants from treated areas are normal, it is safe to plant.

**SPECIAL INSTRUCTION:** When treating potting soil, or heavier field soils, including soils heavy in clay or organic matter, it is essentially important that the soils be allowed to settle on a dry thoroughly after using NEMASOL 510. During cold and/or wet weather shallow cultivations may aid the escape of NEMASOL 510 from the soil.

**USES, APPLICATION METHODS & RATES**

**FOR SHALLOW PEST IN SEED BEDS, PLANT BEDS, LAWNS AND OTHER LIMITED AREAS:**  
**SPRINKLING CAN METHOD:** Place 12 1/2 fl. oz. NEMASOL 510 (10% fl. oz. on very heavy soils or deep root weeds) in a sprinkling can, fill with water, and sprinkle uniformly over 50 sq. ft. of well-prepared soil. Sprinkle immediately with water until soil is sealed, or tarp for 48 hours.  
**HOSE PROPORTIONER METHOD:** Add 25 fl. oz. NEMASOL 510 to 3 qt. water in a bucket or other container and apply, using a hose proportioner to an area of 100 sq. ft. sprinkle with water until soil is sealed, or tarp for 48 hours.  
**HOSE-END SPRAYER METHOD:** Fill sprayer jar with 25 fl. ozs. of NEMASOL 510 and spray to evenly cover 100 sq. ft. of prepared soil. Water-in or tarp.

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**SOIL INJECTION:** Space injection shanks 5 in. apart and inject NEMASOL 510 4 in. deep into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling helps prevent gas escape. For seedbeds a dosage of 58 to 78 gals. per acre (18 1/2 fl. oz. to 25 fl. oz. per 100 sq. ft.) is recommended.

**ROTARY TILLER:** Spray or sprinkle diluted NEMASOL 510 immediately in front of tiller. Use 25 fl. oz. of NEMASOL 510 in 2 1/2 gals. water per each 100 sq. ft. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling will help prevent gas escape.

**FIELD APPLICATION—**

**WHERE ENTIRE AREA IS BEING TREATED**

**SOIL INJECTION:** Space thin injection shanks 5 in. apart and inject NEMASOL 510 4 in. deep into well-prepared soil. Follow immediately with a roller to smooth and compact surface. Light watering or a tarp after rolling helps prevent gas escape. For field use, 31 to 78 gals. NEMASOL 510 per acre is recommended.

**SPRINKLER SYSTEM:** Use only those sprinkler systems which give large water droplet to prevent excessive loss. Use 58 to 78 gals. NEMASOL 510 per acre. For control of shallow pests (top 1 ft. or less of soil), run sprinklers 5 to 10 min. in next 10 to 20 min. Inject into the sprinkler system all NEMASOL 510 needed for the area covered. On very light soils keep surface moist by sprinkling for 2 or 3 days. For control of pests deeper than 18 in. in the soil, divide NEMASOL 510 into 3 or more equal parts and apply at intervals during the sprinkling period.

**CHECK OR FLOOD IRRIGATION:** Meter NEMASOL 510 at a steady rate into water during application. Use 39 to 78 gals. NEMASOL 510 per acre, depending upon the kind of pest and depth desired, in 3 to 18 inches of water per acre.

**FIELD APPLICATION TO BEDS OR ROWS**

**SOIL INJECTION:** NEMASOL 510 may be injected into pre-formed plant beds following the directions given above under soil injection. If a wider treated band is desired, space 2 or more shanks at intervals of 5 in. to cover the desired treating width. Roll immediately.

**SOIL COVERING METHODS:** (Bed-over methods). NEMASOL 510 may be sprayed or dripped onto the soil immediately ahead of bedshaping equipment. Cover the NEMASOL 510 with soil to a depth of 3 to 6 inches. The soil should be rolled and compacted immediately. The recommended rate of NEMASOL 510 is 39 to 78 gals. per acre, approximately equivalent to 12 1/2 fl. oz. to 25 fl. oz. per 100 sq. ft. on 12-inch row.

**TREATMENT OF TREE REPLANT SITES:** After removing dead or diseased tree and as much of the root system as possible, make a shallow basin over the planting site. Add NEMASOL 510 to the stream of water while filling the basin. Use 25 fl. oz. NEMASOL 510 per 100 sq. ft. in sufficient water (depending on soil type) to penetrate at least 6 ft. For control of Oak root fungus, use a basin at least 20 x 20 ft. square. Increase dosage to 50 fl. oz. NEMASOL 510 per 100 sq. ft. in sufficient water to penetrate to the depth of root system. If water is tanked to the planting site, add NEMASOL 510 to the water and mix before filling basin.

**TREATMENT OF POTTING SOIL**

**A. SPRINKLER METHOD:**

1. Spread soil in a smooth layer 4 inches high on concrete or on pre-treated soil.
2. Sprinkler NEMASOL 510 at a rate of 12 1/2 fl. oz. in 5 gallons of water per 100 sq. ft. of surface area.
3. Layers can be treated one on top of another.
4. Sprinkler top layer with sufficient additional water to seal the surface, or cover with tarp (plastic, kraft paper, etc.).

**B. CEMENT MIXER:**

1. Add NEMASOL 510 to soil mix at a rate of 1 fl. oz. NEMASOL 510 per 2 1/2 cu. ft. of soil, in cement or similar mixer. Mix thoroughly.
2. After soil is treated and piled, sprinkle water over entire surface or cover with tarp.

**SPECIAL USES**

**TOBACCO PLANT BEDS:** Fall applications are recommended wherever possible. Read and follow DIRECTIONS FOR USE carefully. Treatment in the South should generally be made before November 30.

**A. TARP METHOD:** Prepare the bed 5 to 7 days before application to insure best conditions for weed seed germination and fumigant action of NEMASOL 510. The bed should be free of clods, level and in good till. Apply 3 1/2 qts. to 4 3/4 qts. of NEMASOL 510 in a minimum of 40 gals. of water per 100 sq. yd. Apply uniformly over the entire bed. Cover the bed immediately with a plastic cover. Keep covered no less than one day, but no more than two days. The cover need not be tented, but should be secured to prevent wind from uncovering the treated area. Seven days after date of NEMASOL 510 application, loosen the treated soil to a depth of 2 in. Do not seed tobacco earlier than 21 days after NEMASOL 510 application.

**B. DRENCH METHOD:** Apply 2 gals. NEMASOL 510 in 150 to 200 gals. of water per 100 sq. yd. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for seed bed treatment.

**SYMPHYLID CONTROL:** Soil should be in good seed bed condition to a depth of 6 to 10 inches. Maintain adequate moisture during Spring season. Treat during July-August when symphytids are in the upper soil surface. Apply 16 gals. NEMASOL 510 per acre using blade or chisel injector. Inject below level of symphytid concentration, usually 6 to 8 inches. Pack soil immediately after application.

**CONTROL OF CYLINDROCLADIUM BLACK ROT (CBR) OF PEANUTS** (North Carolina & Virginia):

Before applying NEMASOL 510, residue from the previous crop should be decomposed (enhanced by fall disking) and plowed under in the spring with a mold-board plow. Soil incorporated pre-are herbicides must be applied before application of NEMASOL 510.

**CBR—resistant cultivar—NC 6C:** apply 7 1/4 gallons per 1000 feet of row. **CBR—susceptible peanut cultivars—Floriant, GK-3, NC 8, KEEL 29:** apply 15 1/2 gallons per 1000 feet of row.

Apply NEMASOL 510 with a gravity flow regulator through chisel-type or couler-type applicators. Center each applicator, one per row, in front of a bed shaper to mark the location of chemical deposition. NEMASOL 510 should be deposited 6-8 inches below the soil surface of beds. Bed applicator spacing should coincide with row spacing at planting. Soil temperatures must be in the range of 60°-90°F at 3-inch depth application. Plant peanuts in the center of treated beds no earlier than 14 days following application of NEMASOL 510. An at-planting nematicide treatment will be necessary in fields with heavy infestations of root knot, ring, and/or sting nematode.

\*Not recommended on VA 81B or NC 7 because of their high level of susceptibility to CBR

**SUPPRESSION OF CERTAIN EARLY SEASON SOIL FUNGI WHICH CAUSE ROOT DISEASES IN PEAS & LENTILS—Washington, Oregon & Idaho:**

Apply in areas receiving 15 or more inches of rainfall per year. Apply 3 1/4 to 7 1/4 gals. per acre 14-21 days prior to planting. NEMASOL 510 may be diluted with water or a non-acidic liquid fertilizer. Under no conditions mix NEMASOL 510 with an acidic solution.

Inject into moist soil 5-8 inches deep with shanks spaced 4-8 inches apart. Soil moisture is needed at 5-8 inch depth at time of application.

**FOR CONTROL OF NEMATODES AND VERTICILLIUM (EARLY MATURITY DISEASE) IN POTATOES:**

**Fall Post-harvest or Spring Pre-plant.**

Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 39 to 78 gals. NEMASOL 510 per acre. Inject into the sprinkler system all the NEMASOL 510 needed for the area covered and apply in a minimum of 1 acre inch of water. Soil temperature should be in the range of 50°-90°F in the treatment zone.

On very light soils keep surface moist by sprinkling periodically for 2 or 3 days.

Do not apply when plants are present. Aerate soil as directed before planting.

**EARLY MATURITY DISEASES OF POTATOES IN OREGON:** Apply 31 gals. NEMASOL 510 per acre using thin shank injector (1).

**PEPPERMINT:** Verticillium wilt control. When infestation is limited to small spots in a field, spread can be reduced by treating the soil with 78 gals. NEMASOL 510 per acre using injector blade or thin shank injector rig.

**SUPPRESSION OF CERTAIN EARLY SEASON SOIL FUNGI WHICH CAUSE ROOT DISEASE IN SMALL GRAINS (Wheat & Barley)—Washington, Oregon, & Idaho:**

Apply in areas receiving 15 or more inches rainfall per year. Apply 3 1/4 to 7 1/4 gals. per acre 14-21 days prior to planting. NEMASOL 510 may be diluted with water or a non-acidic liquid fertilizer. Under no conditions mix NEMASOL 510 with an acidic solution. Inject into moist soil 5-8 inches deep with shanks spaced 4-8 inches apart. Soil moisture is needed at 5-8 inch depth at time of application.

**PREVENTION OF ROOT GRAFT TRANSMISSION OF DUTCH ELM AND OAK WILT DISEASE:**

Immediately after a tree is diagnosed as having Dutch Elm or Oak Wilt disease, isolate the diseased tree from healthy trees with the NEMASOL 510 treatment. If a diseased tree is less than 20 feet from a healthy tree or has advanced wilt symptoms, it may be necessary to treat at two sites—one between the diseased and the first healthy-appearing tree and one between the first and the second healthy-appearing trees. This measure is advisable because the causal fungus may have already passed from the diseased to the first healthy-appearing tree before NEMASOL 510 was applied.

Use NEMASOL 510 diluted one part to four parts water for Dutch Elm disease and diluted one part to thirteen parts of water for Oak Wilt disease. Drill holes approximately 1/4 to 1 inch in diameter, 15 inches deep to 6 to 9 inches apart. Fill each hole with diluted NEMASOL 510 to within 2 inches of the soil surface.

Make the line of treatment sufficiently long to fill all roots of the two adjacent trees that are likely to be root-grafted. Apply the chemical slowly and carefully to avoid over-filling the drilled holes, this will reduce grass kill. Tamp each hole closed with the heel. Allow at least two weeks after treatment before removing the diseased tree.

**TREATMENT OF TREE REPLANT SITES:**

Remove as much dead or diseased tree and roots as possible. Make a shallow basin at the planting site. Apply 12 1/2 to 25 fl. oz. NEMASOL 510 per 100 sq. ft. in sufficient water to penetrate at least 6 feet of soil. Do not plant until 7 days after application. On light organics, wet, cold, and/or fine textured soils, at least 60 days should lapse before planting.

**NOTICE**

Manufacturer and Seller warrant that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. 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 the manner of use or application, all of which are beyond the control of Manufacturer and Seller. In no case shall Manufacturer and Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Manufacturer and Seller make no warranties of Merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

25 1/2 X 8 3/4  
USE