PROPOSED LABEL



IEMASOL 42%

A SOIL FUMIGANT SOLUTION FOR ALL CROPS MAY BE APPLIED BY SOIL INJECTION OR CHEMIGATION FOR SUPPRESSION OF SOIL-BORNE PESTS THAT ATTACK ORNAMENTALS, FOOD AND FIBER CROPS.

Suppresses Weeds such as Annual Bluegrass, Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarter, Amaranthus species, Watergrass, Johnsongrass, Nutgrass, Wild Morningglory and Purslane, Nematodes and Symphylids. Soil-Borne diseases such as Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers. ACTIVE INGREDIENT:

Sodium methyldithiocarbamate (anhydrous) 42.0%

Contains 4.26 lbs. METAM SODIUM per gallon.

KEEP OUT OF REACH OF CHILDREN 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.)

> For Emergencies call 24 hours a day: Transportation: Chemtrec 1-800-424-9300

> > EPA REG. NO. 34704-769

EPA EST. NO. ____

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive: Causes skin damage. May be fatal if absorbed through the skin. Do not get on skin or clothing. Protonged or frequently repeated skin contact may cause allergic reactions in some individuals. Harmful if swallowed. Harmful if inhaled. Irritating to eyes, nose, and throat. Avoid breathing vapor or spray mist. Irritating to eyes. Do not get in eyes.

STATEMENT OF PRACTICAL TREATMENT

Immediately start the procedures below and contact a Poison Control Center, a physician or the nearest hospital. Describe the type and extent of exposure, the victim's symptoms, and follow the advice given.

IF ON SKIN: Immediately flush skin with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately.

IF IN EYES: Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eye lids 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 cxygen, preferably with a physician's advice. Get medical attention immediately.

IF SWALLDWED: Immediately give several glasses of water but do not induce vomiting. If vomiting occurs, 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

(1) Handlers Performing Direct-Contact Tasks. Direct-contact tasks include: mixing, loading, or fumigant transfer with or without drydisconnect fittings, equipment calibration or adjustment, equipment cleanup and repair, product sampling, application or soil-sealing outside an enclosed cab, any activity less than 6 feet from an unshielded pressurized hose containing this product, spill cleanuo. removal of tarp or plastic film, rinsate disposal, cleanup of smail spills, preparing containers for aeration, any other handling task not otherwise listed in (2) or (3) below.

Applicators and other handlers performing direct-contact activities must wear: coveralls over long-sleeved shirt and long pants. waterproof gloves, chemical-resistant footwear plus socks. chemical-resistant headgear for overhead exposure, chemicalresistant apron when cleaning equipment, or when mixing, loading. or transferring without dry-disconnect fittings, face-sealing goggles. unless full-face respirator is worn, a respirator with either an organicvapor-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-

(2) Handlers in Enclosed Cabs. Applicators and other handlers in enclosed cabs must wear: coveralls, shoes and socks.

Plus, if pungent, rotten-egg odor of this product can be detected inside the enclosed cab, the handlers in the cab must wear: facesealing goggles, unless full-face respirator is worn, 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-14).

In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity. The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides-40CFR 170.240(d)(5).

(3) Handlers in Treated Areas While Entry Is Restricted.

While entry is restricted (see "Entry Restrictions" in the Agricultural Use Requirements box elsewhere in this labeling), only the following handlings tasks may be performed in a treated area outdoors: assessing/adjusting the soil seal, assessing pest control, application technique, or application efficacy, operating ventilation equipment, sampling air or soil for this product.

All other tasks are prohibited until the entry restriction is over.

Handlers performing the above tasks must wear: coveralls over long-sleeved shirt and long pants, waterproof gloves, chemicalresistant footwear and socks.

Plus: If pungent, rotten egg odor of tijis orpduct can be detected outdoors: face-sealing goggles (unless full-face respirator is worn) and a respirator with either an organic-vapor-removing carridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-29C), or a canister approved for pesticides (MSHA/NIOSH approved number prefix TC-14G).

USER SAFETY REQUIREMENTS:

- Respirator Requirements: When a respirator isorequired for use with this product, the following criteria must be met:
 a. Cartridges or canisters must be replaced daily or when odor or
 - irritation from this product becomes apparent, whichever is sooner.
 - b. Respirators must be fit-tested and fit shooted using a program that conforms to OSHA's requirements, (described in 29 CFR Part 1910.134).

Under the Federal Insociation.
Fungicide, and Redenticide Est as amended, for the pesticide regulatered undig. 104-168

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- 2 Dispose of Contaminated Clothing Discard clothing and other absorbent materials that have been drenched or heavly contaminated with liquid from this product. Do not reuse them
- Clean and Maintain PPE 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 Wash PPE after each day s use.

USER SAFETY RECOMMENDATIONS

Users should

Wash hands before eating drinking chewing gum using tobacco or using the toilet

Remove clothing immed ately if pesticide gets inside. Then wash thor oughly and put on clean clothing

Remove PPE immediately after handling this product. Wash the out side of gloves before removing. As soon as possible, wash thor oughly and change into clean clothing

ENVIRONMENTAL HAZARDS

Do not apply directly to water to areas where surface water is present or to intert dal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated

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 spec fic to your State or Tribe consult the agency responsible for pest cide regulation. Do not apply this product through any impation system unless the chemigat on instructions on this label are followed

CALIFORNIA ONLY Application must be in compliance with Technical Informat on Bulletin-California Metam Sodium Guidel nes for all Appli cation Methods for Metam Sodium in California. This information bullet n may be obtained from your local pesticide dealer or a Metam Sodium registrant

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, for ests nurseries, and greenhouses, and handlers of agricultural pesti cides It contains requirements for training decontamination notification and emergency assistance It also contains specific in structions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Stand ard (WPS)

ENTRY RESTRICTIONS

Outdoors Entry (including early entry that would otherwise be permit ted under the WPS) by any person-other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling—is PROHIBITED from the start of application until 48 hours after application. In add tion, if tarps are used for the application, nonhandler entry is prohibited while tarps are being removed

NOTIFICATION Notify workers of the application by warning them orally and by posting furnigant warnings signs. The signs must bear the skull and crossbones symbol and state (1) DANGER/PELIGRO

(2) Area under furnigation DO NOT ENTER/NO ENTRE (3) the date and time of fumigation (4) Nemasol 42% Fumigant in use and (5) name address, and telephone number of the applicator. Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location legibility size, and timing of posting and removal

Outdoors Post the fumigant warning signs at entrances to treated areas

PPE FOR ENTRY DURING THE RESTRICTED PERIOD PPE for entry that is permitted by this labeling is I sted in the "Hazards to Humans and Domestic Animals section of this labeling

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal STORAGE Store product in a cool dry locked place out of reach of children. Do not store below 0°F. Product crystalizes at lower tempera. tures. If exposed warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use.

PESTICIDE DISPOSAL. Pesticide wastes are toxic. Improper disposal of excess pesticide spray in xture, or rinsate is a violation of Federal law If these wastes cannot be disposed of 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. 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.

GENERAL INSTRUCTIONS

Before applying this product always thoroughly cultivate the area to be treated breaking up clods and loosening soil deeply and thoroughly A week before treatment moisten soil after cultivation to the desired depth sprinkle or flood imgate. This step is essential for all methods of use. immediately before application cultivate lightly if the soil has crusted

See HIELD PREPARATION PRIOR TO APPLICATION section for specific direct ons on the application of NEMASOL 42% to fields where notill stubble or cover crop exist. To prevent loss from evaporation use only at times when air temperature is moderate and there is little wind movement Soil temperature must be from 40 to 90°F in the treated zone. Treated zone is defined as the depth of treatment that NEMASOL 42% achieves at the time of application. For other conditions, see section

CULTIVATION AND PLANTING AFTER APPLICATION Do not apply to 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 42% before it can be drenched into the soil with additional water. If furnes become unpleasant during treatment apply more water to seal the fumes into the so I where they should be confined to achieve maximum fumigation benefit.

The activity of NEMASOL 42% is increased by the use of tarp (plast c paper or fabric) spread loosely over the treated areas and secured to prevent removal by wind Keep covered for a min mum period of 48 hours. Seven days after treatment cultivate areas to depth of 2 inches to aerate the soil. Do not seed earlier than 21 days after application when tarping method is used. Use promptly after mixing with water. Do not allow solution to stand. Flush equipment with water after each day is use Disassemble valves and clean carefully

PRODUCT INFORMATION

NEMASOL 42% s a water soluble liquid. When applied to properly prepared so I the I quid s converted into a gaseous fum gant. After suffic ent interval of time, the gas dissipates leaving the soil ready for

WHEN TO USE MAXIMUM AND MINIMUM RATES

The application rate of NEMASOL 42% is dependent on the so I type to be treated and the position in the soil of the pest to be suppressed or controlled. Generally a light sandy soil requires a lower application rate than a heavier mineral soil. In addit on if the pest is in the upper portion of the so'l profile (annual weeds) a lower application rate is generally required than if the pest is deeper in the soil profile and deeper penetra tion is desired (perenn al weeds seeds). When a range of application rates is given in this label consult your local agricultural extens on serv ice for more specific information

NEMASOL 42% is recommended for the suppression of the following soil borne pests that attack ornamental food and fiber crops. Weeds and germinating weed seeds. Annual Bluegrass, Bermudagrass Chickweed Dandelion Ragweed Henbit, Lambsquarter Amaranthus spp. (Pigweed & Careless Weed) Watergrass, Johnsongrass, Nutgrass, Wild Morn ngglory and Purslane Nematodes and Symphylids (Garden Centipede) and Soil-borne Diseases such as Rhizoctonia Pythium Phytophthora, Verticillium Sclerotinia Oak Root Fungus and Club Root of Crucifers

USE PRECAUTIONS

Keep children and pets out of treated areas. All NEMASOI 3/29/ 1/205 described on this label are intended for pre-plant soil prepara ion only. All plant foliage and any established plants growing on the treatment sites will be either severely damaged or destroyed.

Keep the product off of any desirable turt or plants. Do not apply with n three feet of the drip line of desirable plants at a pr trees. Do r ot use n confined areas or where fumes may en er nearby dwellings Do not use in greenhouses. Keep container tightty closed when no กับลัย อิง not store near feed or food

NOTE NEMASOL 42% will suppressionly those casts in the fur I guition zone at the time of treatment. Reinfestation may occur subsequent to the fumigants dissipation from the sp !

TREATMENT GUIDELINES

For opt mum results, certain procedures should be observed a design For opt mum results, certain processures such as the sum of the freatment program. Described below are in politain add times in the treatment process, such as the sum of the four stages of the treatment process, such as the sum of the sum of

- Pre-Application planning
- Field preparation prior to application



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- Application
- Preparation for planting after application

Consult your sales representative for the appropriate treatment program for your particular needs.

PLANNING AN APPLICATION:

NEMASOL 42% is applied after harvest and 14-21 days before a new crop is planted. In some areas, fall applications are preferred as the product will dissipate over the winter which allows planting to begin as soon as favorable spring time conditions arrive.

APPLICATION RATE

Apply 30 to 75 gallons of this product per treated acre depending on crop, target pest and soil properties. Some of the soil properties to consider when determining the application rate include soil texture, percent organic matter and depth of soil to be treated.

TARGET PEST AND DEPTH OF TREATMENT

When application rates for this product are given in ranges, use the higher rate if pests (insects, nematodes, etc.) are present in high numbers or if the area to be treated has a history of pest problems. Consult with your state Nematologist, Entomologist and Plant Pathologist to determine if crop rotation is more feasible or desirable than furnigation.

NOTE: This product will only **SUPPLESS** pests that are in the fumigated zone at time of treatment. For control of weeds and fungi which cause seed or seedling diseases, treatment of only the top 2 to 4 inches of soil may be required. Treatment depths greater than 4 inches may be required for control of Nematodes and fungi which occur throughout the rhizosphere. The required application rate should be increased proportionately with the depth of the treatment required. Always choose the appropriate application method to evenly distribute this product throughout the soil to the required treatment depth.

SOIL CHARACTERISTICS

Soil properties to consider when determining the application rate of this product include the depth of soil to be treated, soil texture, and percent organic matter.

Plant materials under the soil surface (except in the case of cover crops) should be thoroughly decomposed before application. Due to the absorbing effect of humus, soils with high levels of organic matter under the surface require higher rates. For example, muck soils require twice the rate that would be used in mineral soils.

Application rates will also vary with soil texture. For instance, heavy clay soils require a higher rate than light sandy soil.

FIELD PREPARATION PRIOR TO APPLICATION

Before applying this product, always thoroughly cultivate the area to be treated, breaking up clods and loosening soil deeply and thoroughly. Then sprinkle or flood irrigate to moisten loosened soil if needed. Immediately before treatment, cultivate lightly to break up soil crust. On sandy (course) soils, NEMASOL 42% may be applied to crop stubble or vegetation. When compaction exists in the soil profile to be treated, use chisely or ripper to remove compaction prior to application. Apply according to methods and rates outlined in the section "USES PATES AND APPLICATION METHODS. Help Application Where Entire Area is Being Treated.

APPLICATION OF NEMASOL 42% -

Apply according to the methods and rates outlined below under the section "USES, APPLICATION METHODS AND RATES".

AIR TEMPERATURES DURING TREATMENT

To prevent loss from evaporation, use only at times when air temperature is moderate and there is little wind movement. Do not apply to soil surface, as in the sprinkler irrigation method, when air temperature at time of application is 90°F or higher or when high winds or low humidity would cause loss of NEMASOL 42% before it can be drenched into the soil with additional water.

SOIL TEMPERATURE DURING TREATMENT

Soil temperature must be from 40°F to 90°F in the treated zone. Treated zone is defined as the depth of treatment that NEMASOL 42% achieves at the time of application. To prevent rapid evaporation of the product from the soil, avoid treating soil during time of day when soil temperatures exceed 90°F two inches deep, instead, make the application at night or in early morning when the soil temperature is coolest.

SOIL MOISTURE AT TIME OF TREATMENT

Applications should be made only to fields with "good seed bed moisture conditions" (50 to 80% of field capacity). As a simple field test, squeeze a handful of soil into a ball and then gently try to break it apart with your lingers. If it does not ball, it is too dry. If it balls but breaks easily, the soil moisture content is sufficient. If it will not break apart easily or if water can be squeezed out, it is too wet.

When necessary, sprinkle or flood irrigate the soil 1 to 2 weeks prior to treatment to increase the moisture content. The soil must be moistened to at least the desired treatment depth.

PHYTOTOXICITY :

NEMASOL 42% is phytotoxic. Protect valuable, non-target plants by stopping soil applications of this product at least 3 feet short of the drip line of trees, shrubs and other desirable plants. For sprinkler application, crop injury and lack of effectiveness, can result from nonuniform distribution of the treated water.

USE OF DILUTED NEMASOL 42%

Do not store the diluted product. Do not allow the diluted solution to stand overnight. Use the diluted solution promptly after mixing with water. Flush all equipment with water after each day's use, disassemble valves and clean carefully.

ODORS DURING OR AFTER APPLICATION

Strong odors during or after application are a signal that the fumigant is escaping and needs to be sealed in the soil. If increasingly strong odors are occurring, the application should be stopped immediately and not resumed until the source of the odor problem is identified and corrected. For sprinkler applications or whenever possible with other application methods, a water seal should be applied immediately to the treated areas of the field.

The water seal is a light application of water, repeated as necessary to prevent occir escapes. Excessive water applied as a seal will void the surface treatment.

SEALING NEMASOL 42% IN SOIL

To be most effective, NEMASOL 42% should be sealed in the soil at the time of application.

Sealing methods include applying a water seal by sprinkler irrigation, tarping (plastic, paper or fabric) or packing soil with a roller, drag or press wheel. Tarpaulins should be spread loosely over the treated area and secured to prevent removal by wind. They should remain in place for at least 48 hours. If tarped, the sealed area should be cultivated to a depth of 2 inches to aerate the soil seven days after treatment. When tarpaulins are used to seal the soil, wait at least 21 days before planting.

APPLICATION IN TANK MIX WITH LIQUID FERTILIZER

NEMASOL 42% may be injected in a mixture with liquid fertilizers. Since the composition of liquid fertilizers vary considerably, the physical compatibility of each NEMASOL 42%/fertilizer tank mix should be checked by using the following procedure:

Mix a small quantity of NEMASOL 42% and liquid fertilizer in the same ratio as they will be applied to the field, i.e., if 40 gallons of NEMASOL 42% and 40 gallons of liquid fertilizer are to be applied per acre, then the mixture should be mixed in a 40:40 or 1:1 ratio. Mix in a glass container and acitate the liquids to attain a complete uniform mixture.

If a uniform mix cannot be made, the mixture should not be used. If the mixture remains uniform for 30 minutes, without agitation, the combination may be used. Should the mixture separate after 30 minutes, but is readily remixed with agitation, the mixture can be used if adequate agitation is maintained in the tank.

ADIATION IS MIXIMIZATION IN THE MIXIM.

DO NOT PLACE CAPS ON MIX JAR AS INCOMPATIBLE MIXES MAY EVOLVE HYDROGEN SULFIDE GAS. USE PROMPTLY AFTER MIXING WITH WATER OR FERTILIZER. DO NOT ALLOW THE SOLUTION TO STAND. FLUSH ALL EQUIPMENT WITH WATER AFTER EACH DAYS USE. DISASSEMBLE VALVES AND CLEAN CAREFULLY.

GENERAL PRECAUTIONS FOR IRRIGATION SYSTEMS:

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 center, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when chemigated area is open to the public such as golf courses.

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 locations affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated crea 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 jn, jn, jn; conditioning as they are composed of materials to prevent deterioration and maintain legibility for the duration of the gosting period,

All words shall consist of letters of at least 21/2 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 of at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

STATEMENTS CONCERNING CHEMIGATION OF NEMASOL 42%

When applying by chemigation methods, the following directions or warnings must be observed. Apply this product only through sprinkler

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including center p vot lateral move, end tow side (wheel) roll traveler big gun solid set or hand move flood (basin) furrow border or drip (trickle) imigation system(s)

Do not apply this product through any other type of imagation 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 special sits equipment manufacturers or other experts. Do not connect an imagation 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.

OBSERVE THE FOLLOWING PRECAUTIONS IF YOUR CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM NOTE. PLATTE CHEMICAL CO DOES NOT ENCOURAGE CONNECTIONS OF THE PROPERTY OF

NOTE. PLATTE CHEMICAL CO DOES NOT ENCOURAGE CONNECTION OF CHEMIGATION SYSTEMS TO PUBLIC WATER SYSTEMS THE FOLLOWING INFORMATION IS PROVIDED FOR USERS WHO HAVE EVALUATED ALTERNATIVE APPLICATION AND WATER SOURCE OPTIONS BEFORE CHOOSING TO MAKE SUCH A CONNECTION

Public water system is defined as a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of a year.

Chemigation systems connected to public water systems must contain a functional reduced pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pestic de introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill p pe and the top of overflow nm of the reservo r tank of at least twice the inside diameter of the fill pipe.

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

The pesticide injection p pel ne must also contain a functional, normally closed soleno d-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 ingation system is either automatically or manually shut down

The system must contain functional interlocking controls to automatically shut off the pest cide injection pump when the water pump motor stops or in the cases where there is no water pump, 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 pest cides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION SYSTEMS

See Use Rates and Application Methods — Field Application Where Entire Area is Being Treated Section

STATEMENTS CONCERNING THE OPERATION OF SPRINKLER CHEMIGATION, DRIP (TRICKLE); OR OTHER APPROVED SYSTEMS UTILIZING A PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM

The system must contain a functional check valve vacuum rel ef valve and low pressure drain appropriately located on the impation pipel ne to prevent water source contamination from backflow. The pesticide injection pipel ne must contain a functional automatic quick-closing check valve to prevent the flow of flu d toward the injection pump. The pesticide injection pipel ne 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 with drawn 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 I ne of 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 con structed of materials that are compatible with pestic designed and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment

STATEMENTS CONCERNING FLOOD (BASIN), FURROW AND BORDER CHEMIGATION

Systems utilizing a pressurized water and pesticide inject on system must meet the requirements for sprinkler chemigation systems.

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

Do not dilute in supply tanks. Agitation of supply tank recommended after freezing

PREPARATION FOR PLANTING AFTER APPLICATION OF NEMASOL 42%

Effect of Rains

if a NEMASOL 42% application is rained on less than 24 hours after treatment, lack of control at and near the soil surface may occur

Recontamination:

Precautions must be taken to prevent recontamination of treated fields with plant pathogenic fungi, plant parasitic nematodes or weed seed. Use clean seeds or plants. Before farm equipment is driven into the treated area, it should be rinsed free of untreated soil and weed seeds from other fields.

Interval Between Treatment and Planting:

Because NEMASOL 42% is harmful to germinating seeds and living plants an appropriate interval must be observed between treatment and planting. On well drained soils which have a light to medium texture and which are not excessively wet or cold following the application planting can begin 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or if the soils remain wet and/or cold (below 60°F) following the application is minimum interval of 21 days or greater should be observed. The interval before planting should be extended until the soil is sufficiently dry to allow for cultivation.

Aeration of Soils Before Planting

Important: Heavier soils, including soils high in clay or organic matter should be allowed to aerate and dry thoroughly after treatment with NEMASOL 42% During cold and/or wet weather frequent shallow cultivation can aid dissipation of NEMASOL 42% from the treated soils. On heavy wet soils, light surface cultivation to break up crusting and promote drying should be done 5 to 7 days after treatment. This cultivation may be repeated as necessary NOTE To avoid reinfecting treated soils, care should be taken to assure that untreated soils are not mixed with treated soils.

Testing of Treated Soils Before Planting

Fields are fumigated to control soil-borne rung: nematodes insects and weeds. The length of time required for fumigants to escape from the soil before plants can safely be planted varies greatly. Typically 14 days are needed under typical conditions, however, circumstances which do not favor volatilization (evaporation) of the fumigant can greatly lengthen the waiting period (i.e., up to 30 days). The release period is short with (1) low rates of fumigant. (2) light soil. (3) high soil temperatures. (4) low soil moisture, (5) shallow application depth and (6) repeated cultivations after fumigation. Seeded crops are less susceptible to residual soil fumigant injury than transplanted crops. In general, fumigants escape slowly from cold, wet, heavy soils.

The information below describes two sample tests to assay for harmful residual soil furnigants before planting.

Lettuce Seed Test

- With a trowel dig into the treated soil to, or just below the depth of application. Remove 2 to 4 small (1-2 oz) so I samples in k bijet y and immediately place a portion in an air bight jar so that filmes will not escapa. Use mason jars, wheat germ jars or similar jars with gas tight lids.
- 2. Sprinkle lettuce seed on the moistened surface of the soil and recap immediately. Prepare a similar jax with untreated soil (an untreated check) for companion
- 3. Place the jars at 65 to 85 degrees Fin moderact sunlight (direct sunlight (direct sunlight) may kill the seed by overheating). Lettica şeed by it not germ nate in the dark.
- 4. Inspect the jars for germination in one to three days

 5. The soil is safe to plant if seed germinate a weblin the treated soil as the untreated control.
- A. Be sure to sample the field property in several areas particularity low
- wet sites.

 B. Be sure that the lids are air tight, (no gnt under the seal)
- C Be sure that the jars are placed in the light (not direct sun)

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Tomato Transplant Test

Transplant five to 10 succulent fast growing tomato seedlings into furnigated beds (approximately 4-6 inches deep). Do the same in a non furnigated area (i e between rows). If there is variation in the field plant into the heaviest, wettest soils. Inspect the seedlings in two days for wilting or root burn. If plants in the furnigated zone look the same as those outside the furnigated zone it is safe to plant.

Which Test is Best?

Both the lettuce seed and tomato transplant tests should serve the purpose. The response of tomato seedlings vary somewhat depending on how succulent they are the relative humidity soil moisture and temperature. Relative differences between plants in furnigated and unfurnigated areas are key to detecting low level residues. High concentrations should produce clear cut symptoms.

Lettuce seed tested in jars are not subjected to the variations in the field which can affect the response of tomato transplants. However, the process of collecting a soil sample allows some furnigant to escape prior to sealing the jar. In addition, excess soil moisture can inhibit normal lettuce seed germ nation reducing the sensitivity of the test.

USES, RATES AND APPLICATION METHODS

Field Application Where Entire Area is Being Treated Soil injection

Apply with injectors (shanks, blades, fertilizer wheels, plows, etc.)

NEMASOL 42% may be applied using injector blades spaced no more than 6 inches apart and set to run at a depth of 6 to 14 inches in the soil. Or alternatively NEMASOL 42% may be applied using a double winged shank with spray nozzles spaced no more than 9 inches apart horizontally and spaced close enough vertically for uniform coverage. When setting up your soil injection equipment with either spray blades injection knites or coulters make sure they are evenly and closely placed to create an even application width and depth. To accomplish this it may require multiple toolbars with the injection tools staggered. This will help prevent buildup of trash and aid in the soil sealing.

Regardless of which application method used you must use 30-75 galions of NEMASOL 42% per acre. This application should be followed immediately by a roller/packer to smooth and compact the soil surface. When Spring applying NEMASOL 42% with injector blades such as the "Nable Plow" blade the following precautions should be followed:

Apply all fertilizers after the NEMASOL 42% application.

 Thoroughly aerate the soil 7 days after the NEMASOL 42% application by plowing, shallow ripping or disking, or combination thereof to allow the odor to dissipate.

 Planting may take place 14-21 days after the NEMASOL 42% application provided no NEMASOL 42% odor is noticeable at the time of planting.

If odor is noticeable at planting, rework the soil.

• If soil temperatures are below 60°F at planting, delay planting a minimum of 21 days from the day of the NEMASOL 42% application regardless of any other precautions that may have been taken. In addition to waiting 21 days from application, set indicator plants (such as tomatoes) in various places in the treated field with a "hot cap" left undisturbed for a minimum of 24 hours to be sure all of the NEMASOL 42% has left the soil.

SOIL COVERING:

NEMASOL 42% may be applied as a broadcast application immediately in front of soil covering equipment such as bed shapers, rotary tillers. disks, etc., to a minimum depth of 6 inches using a single pass to incorporate. Use 30-75 gallons of NEMASOL 42% per acre followed immediately by a roller/packer to smooth and compact the soil surface.

Rotary Tiller or Power Mulcher

Spray dilute NEMASOL 42% immed ately in front of tiller or mulcher. Use 30 to 75 gallons per treated acre. Follow immediately with a roller or bedshaper to seal soil surface. Light watering or tarping after rolling or bed shaping helps prevent the escape of gas.

Disk Applied Method

Spray dilute NEMASOL 42% immediately in front of disc. Use 30 to 75 gallons per treated acre. Follow immediately with a roller to smooth and compact the so I surface. Light watering or rolling helps prevent gas escape.

Sprinkler System

Use only sprinkler systems which give large water droplets to prevent excessive loss. Use onto 75 gallons of NEMASOL 42% per treated acre in a minimum of one acre inch of water. Meter continuously into the irrigation system throughout the entire application period. At completion of application flush the system with only enough water to clear the lines. If so I surface died quickly reseal it by running sprinklers for 20 minutes once a day for the next day or two. On very light soils, keep surface most by sprinklerg for 2 or 3 days.

Follow use precautions in GENERAL PRECAUTIONS FOR IRRIGATION SYSTEMS section above

Application Over Cover Crops

NEMASOL 42% can be applied through sprinkler ingation systems over cover crops such as alfalfal clover and grasses such as Rye Oats Wheat and Sudan When applied over cover crops, an sandy (course) soils NEMASOL 42% may be applied to crop stubble or vegetation. When compaction exists in the soil profile to be treated, use chisel or inpper to remove compaction prior to application.

Effect of Air Temperature and Winds on Sprinkler Applications

When using the sprinkler application method apply NEMASOL 42% only when the air temperature is below 90°F. This precaut on is recommended to guard against evaporation of the product. Low hum dity or high winds can also cause evaporation of the product before it can be drenched into the soil. Do not apply when wind conditions favor drift from treated field.

Check, Flood (Basin) Furrow and Border

Meter NEMASOL 42% at a steady rate into water during irrigation Depending on the kind of pest and the treatment depth desired use 30 to 75 gallons per treated acre in 3 to 18 inches of water per acre. Meter the product into the water at the head of the field

Follow use precautions in GENERAL PRECAUTIONS FOR IRRIGATION SYSTEMS sect on above

Runoff of Treatment Solutions

to prevent runoif of the treatment solution, do not apply the solution at a rate greater than the absorption capacity of the field. Should runoif occur, isolate it from growing crops and water sources. Once collected, reapply it to the treated field.

FIELD APPLICATION TO BEDS OR ROWS

SOIL INJECTIONS NEMASOL 42% may be injected into pre-formed plant beds. Space 2 or more shanks at intervals of no more than 5 inches to cover the desired treating width. Use thin injection shank(s) and inject NEMASOL 42% 4 inches deep into well prepared soil. Follow immed ately with a roller to seal chisel channel(s). Light watering or a tarp after rolling helps to prevent gas escape. Apply 30 to 75 gallons participated. To determine rate see section under dip injection: Methor of perturbing Fund Ounces/100 feet of Linear Fow. If NEMASOL 42% injected into established plant beds through plastic tarps to terminate growth of a previous crop and to furnigate the bed in preparation of planting a subsequent crop the terminated crop must not be used for any food or feed purposes after NEMASOL 42% has been applied.

SOIL COVERING METHOD (Bed-over methods) NEMASOL 42% may be sprayed or dripped in a bed wide band onto the soil immediately ahead of bedshaping equipment. Cover the NEMASOL 42% with soil to a depth of 3 to 6 inches. The soil should be rolled and compacted immediately Apply at the rate of 30 to 75 gallons per acre of treated soil Apply 30 to 75 gallons per treated acre. To determine rate see section under crip irrigation; Method of Determining Fluid Ounces/100 Feet of Linear Row.

ROTARY TILLER or POWER MULCHER INCENSES A 2% mmediately in front of the tiller or mulcher. Use 30 to 75 gallons per treated acre. Follow immediately with a roller or bed shaper to seal soil surface Light watering or a tarp after rolling helps to prevent gas escape.

DRIP IRRIGATION SYSTEM

Drip irrigation systems must meet the requirements listed for sprinkler chamigation systems

NEMASOL 42% must be applied through a drip irrigation system to wet the soil thoroughly in the area being treated Meter 30 to 57 gallons NEMASOL 42% per treated acre into the drip system during the entire irrigation peniod APPLICATION MUST BE CONTINUOUSLY SUPER VISED THIS IS VERY IMPORTANT AN ADEQUATE CONCENTRATION OF NEMASOL 42% MUST BE PRESENT AT THE TIME OF WEED SEED GERMINATION IN ORDER TO BE EFFECTIVE Further directions for use are as follows (1) Ground must be in seed bed condition no clods larger than 1/2" in diameter (2) Beds must be listed shaped and ready for planting (3) So I moisture must be 50% of field capacity in the top 2-3" at time of application

METHOD OF DETERMINING FLUID OUNCES/100 FEET OF LIEDER ROW

- Determine w dth of bed in feet by d viding the width of teet in it ches by 12. Example 5" bed = 5" d vided by 12 - 0 4166 feet.
- 2) Determine square feet in 100 I near feet of bed by mult plying the width of the bed by 100 Example 0 4750 it 2100 it = 41 66 sq ft
- 3) Determ ne the treated acres per 100 tir as feet of bed by dividir 9 the sq ft by 43 560 (sq ft in acre) Example 41 66 sq ft divided by 43 560 = 0 00096 acre
- 4) To determine the fluid ounces per 100 i near h'
 a) 1 gal = 128 fl oz 50 gals. 6400 ft ɔz; 73 gals = 9620 fl oz
 b) multiply fluid ounces by acres Example; 50 gals. = 6400 ft oz x
 0 00096 = 6 14 fl oz. per 100 linear feet row

ADDITIONAL RECOMMENDATIONS ,

SEED TREATMENT

A suitable fungic de should be used to treat all crop seed be hig planted into the treated soil

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PEANUTS

For suppression of Cylindroclad um Black Rot (CBR) and nema todes apply NEMASOL 42% at the rate of 7.5 gallons per acre (6 61 flu d ounces per 100 lineral feet of row)

Use with part ally resistant cultivars (NC-10C or others as desig nated by your local Agricultural Extension Service) in cases of severe disease pressure. Plant other varieties only in cases of light

Soil Preparations

Before apply ng NEMASOL 42% all residue from the previous crop should be decomposed (enhance by fall disking) and plowed under n the Spring with a mold board plow So I incorporated preplant herbic des must be applied prior to the application of NEMASOL

Application

Apply 8 to 10 inches below seed placement with injector shank or coulter type applicator placed in front of a bedshaper to mark rows. Soil temperatures must be in the range of 60°F to 90°F at a 3 Inch depth at time of treatment

Tillage and Planting After Application

Do not m x untreated soil w th treated soil by tillage or other cultural practices. Plant the peanuts in the center of the treated beds no earlier than 14 days following the application of NEMASOL 42% At planting Nematocide treatment will be necessary in fields with heavy infestations of root knot ring and/or Sting Nematodes

PEPPERMINT

Verticillium Wilt. When infestation is limited to small spots in a field the spread of Vert cillium can be reduced by treating the infected spots Apply at the rate of up to 75 gallons of NEMASOL 42% per treated acre us ng injector blade or thin shank injector ng Follow d rections for FIELD APPLICATION WHERE ENTIRE AREA IS BEING TREATED

POTATOES

For suppress on of potato pests such as Nematodes Weed Seeds and Vert cillium dahliae. (Early Maturity Disease)

SOIL INTECTIONS Apply a min mum of 30 gallons per acre of NE MASOL 42% Follow directions for FIELD APPLICATION WHERE ENTIRE AREA IS TREATED.

Sprinkler System Preplant Applications

Apply 80 to 75 gallons of NEMASOL 42% per treated acre in sufficient water to penetrate to the desired treatment depth. Meter continu ously into the irrigation system throughout the entire application period Soil temperature should be in the range of 40°F to 90°F in the treatment zone Soil moisture immediately prior to treatment must be 50% to 80% of field capacity down to the 24 inch level. Soil condition must fac litate even water penetration without runoff

- NOTE 1 NEMASOL 42% may be applied where a crop stubble or vegetation exists without prior tillage, provided there is
 - adequate penetration of the product.

 2. NEMASOL 42% will suppress root knot nematodes in the treatment zone at the time of treatment. The treat ment zone is defined as the depth of penetration that NEMASOL 42% achieves at the time of application If NEMASUL 42% acrieves at the time of epiphodosis high numbers or deep nematodes are identified anticipate nematodes to build up throughout the growing season Some damage may occur unless additional action is taken NEMASOL 42% has no residual activity and reinfestation of a treated field can occur from numerous sources such as deep nematode populations, seed pleces, irrigat on water equipment contamination and blowing wind

Early Maturity Disease of Potatoes*
Apply 30 to 75 gallons NEMASOL 42% per treated acre using the soil injection or soil covering method as described in the "FIELD APPLICATION WHERE ENTIRE AREA IS SEING TREATED" section.

Sequential Application of NEMASOL 42% and Telene its For suppression of Verticillium Dahitae, Root Knot and Lesion Nematodes in soils to be planted to Potatoes.

The following use directions provide information for a sequential treatment program of applications of Telone II soil fumigant and NEMASOL 42% soil furnigant. For best results, apply both Telone II and NEMASOL 42% in the fall. Alternative treatment schedules include a fall application of felone II followed by a spring application of NEMASOL 42%, a fall application of NEMASOL 42% followed by a spring application of felone II, or a spring application of both products. Due to time constraints resulting from varying weather conditions, a spring application may result in delayed planting.

Application Directions for Telone II

Soil conditions at the time of application of Telone II that allow rapid diffusion of the furnigent as a gas through the soil normally give best results. Compacted soil layers within the desires treatment zone must be fractured before or during application of the fumigant. Soil temperature must be between 40 and 80 degrees Fahrenheit at the depth of injection. moist from two inches below the soil surface to at least 12 inches deep as determined by the feel method, free of clods, and with crop residue thoroughly incorporated into the soil at least at the time of application and sealing.

Apply Telone II as a broadcast treatment at a minimum rate of 15 gations per acre (44.3 fl. oz/1000 feet of row/outlet based on 12 inch centers using either chisel (shank), noble (sweep) or modified Para till application equipment. Chisel equipment must have ripper-type shanks. ParaTill equipment must be modified so that outlet spacing is evenly distributed under the tool bar. With chisel and Para lill equipment, a shank spacing of 12-24 inches is recommended. Do not exceed a shank spacing of 24 inches. Outlet depth should be at least 18 inches below the final soil surface. Nobel plow outlet spacing should not exceed 12 inches and application should be made to a depth of at least 15 inches. Fumigant penetration may be limited if a plow pan exists below the depth of the noble blade. Do not use plow sole application, immediately after application of Telone II, use a disc, paddle-wheel or similar device to uniformly mix the top 4-6 inches of soil to effectively eliminate chises traces. Then follow immediately with a ring roller or cultipacker to seat the soil surface. Little or no crop residue should be exposed at the surface following the sealing operation. Any remaining crop residue should lie flat following sealing. Following application and sealing, leave soil undisturbed for 7-14 days. The long undisturbed interval may be necessary if the soil is or become cold or wet during this period.

APPLICATION directions for NEMASOL 42%

Soil conditions at the time of application of NEMASOL 42% must be between 40 and 90 degrees Fahrenheit in the treated zone, and at 50-55% field capacity. If necessary, pre-irrigate about a week prior to treat-ment to adjust soil moisture to desired levels, immediately before application, cultivate lightly if the soil has crusted.

Apply NEMASOL 42% either by chemigation or by soil injection or Surface incorporation as a sequential application with felone II. When NEMASOL 42% is used prior to reione II. allow a minimum of 7 days between treatments. When NEMASOL 42% is applied after Telone II. allow a minimum of 7 days before disturbing the soil or beginning any pre-irrigation for the application of NEMASOL 42%.

For chemigation, apply NEMASOL 42% at the minimum rate of 30 gallons per acre in a minimum of .05 acre-inch of water to the desires depth of treatment. Heavier soils may require the higher amount of water. Use only those sprinkler systems with give large water droplets to prevent excessive furnigant loss. Do not apply when wind speed favors drift beyond the area intended for treatment or when conditions of thermal inversion exists. If for any reason chemigation is interrupted prior to completion (e.g., excessive wind, equipment mailtunction, etc.,), back the system up prior to restarting to ensure full application to the area affected prior to shutting down the system and to allow full distribution of the NEMASOL 42% solution throughout the impation system prior to moving over untreated soil. After application is completed, flush equipment until all NEMASOL 42% is eliminated from the system. Follow all application directions described in the "General Precautions for Impation Systems" and "Sprinkler Chemigation System" sections in the EFA registered label for NEMASOL 42%.

For soil injection, apoly NEMASOL 42% at the minimum rate of 30 gallons per acre using shanks, sweep blades or double winged shanks. Single shanks should be spaced on more than 6 inches apart with either single injection outlets no more than 6 inches deep or dual injection outlets spaced at 6 and 12 inches deep. Single sweep blades should be spaced no more than 12 inches deep. spaced no more than 12 inches apart with sweeps 12 inches wide and a spray nozzle that will provide broadcast coverage from sweep tip to sweep tip. Double-winged shanks should be spaced no more than 12 inches apart with no more than 9 inches between adjacent wings and with spray nozzles that provide uniform coverage. The Nobie Plow blade should have spray nozzles spaced 6 inches apart to give uniform cover-age, an injection depth set to 12 to 14 inches deep, and be combined with a surface application using a disk to immediately incorporate the NEMA-SOL 42% placed on the surface. Follow all the above applications immediately with a roller/packet to smooth and compact the soil sur later

For surface incorporation, apply NEMASOL 42% at the minimum rate of 30 gallions per acre as a proadcast application to the soil surface infinediately in front of soil covering equipment such as rolary tillers, disks, etc., set to a minimum depth of a inches using a single-pass incorporation followed immediately by a roller/packer to shidoth and compact the soil

Planting may take place only after the odors of either Telone 9 or NEMA-Planting may take place only after the odors of either telone? If NEMA-SOL 42% are no longer present within the zone of furnigation. If NEMA-SOL 42% follows Telone it and is applied in the spring with the Noble Plow blade, apply all fertilizers after the application of NEMASOL 42%. Thoroughly agrate the soil 5 to 7 days after the application of NEMASOL 42% by shallow plowing and/or disking to allow the furnican odors to dissipate. Wait 14-21 days after the application of NEMASOL 42% before planting the crop. Use the 21-day interval if soil temperatures are below to degrees Fahrennett regardless of any other precautions that have been taken to addition to waiting 21 days, place indicator plants. have been taken. In addition to waiting 21 days, place indicator plants

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(e.g., potted tomato seedings) in various places in the treated field and cover the plants with a "hot cap", plastic sheeting, bucket, etc., to trap and confine any fumes present. Leave the plants undisturbed for a minimum of 24 hours then examine for injury before planting the crop. Do not plant the crop if injury to indicator plants is observed. If noxious furnes are noticeable at planting, rework the soil. If Telone II follows NEMASOL 42% and is applied in the spring, wait at least one week for each 10 gallons of Telone II applied beyond the initial undisturbed period before planting the crop. If furnigant odors are present at planting, thoroughly aerate the soil following shallow ripping and/or disking to allow furnigant odors to dissipate. Do not till the soil so deep as to move untreated soil from below the treated zone into the treated soil.

itaneous Application of NEMASOL 42% and Telone II

For suppression of Verticillium Dahliae, Root Knot and Lesion nematodes in soils to be planted to potatoes.

The following use directions provide information for a simultaneous ground application of Telone II soil furnigant and NEMASOL 42% soil furnigant, For best results, a fall application is recommended. Due to time constraints resulting from varying weather conditions, a spring application may result in delayed planting.

NOTE: When Telone II and NEMASOL 42% are applied simultane-ously, the most restrictive personal protective equipment, worker notification and reentry restrictions specified on labels for each product must be followed.

Soil Conditions

Soil temperature must be between 40 and 80 begrees Fahrenheit in the treated zone.

Soil moisture in the top 12 inches should be at 50 to 85% of field capacity. Soil moisture below 12 inches should be moist as determined by theh feel method. If necessary, pre-irrigate about a week prior to treatment to adjust soil moisture to the desired levels.

Application Methods and Equipment

Use a dual equipment setup to apply Telone II and NEMASOL 42% during a single pass. Calibrate equipment for simultaneous application of each product. Because of more shallow product placement and the need to disrupt chisel traces from application of Telone II, mount equipment for application of NEMASOL 42% behind that of Telone II.

Apply Telone II as a broadcast treatment at a minimum rate of 15 gallons per acre (44.3 fl. oz/1000 feet of row/outlet based on 12 inch centers) using either chisel (shank), noble (sweep) or modified ParaTiil application equipment. Chisel equipment must have ripper-type shanks. ParaTill equipment must be modifed so that outlet spacing is evenly distributed under the tool bar. With chisel and ParaTill equipment, a shank spacing of 12-24 inches is recommended. Do not exceed a shank spacing of 24 inches. Outlet depth should be at least 18 inches below the final soil surface. Nobel plow outlet spacing should not exceed 12 inches and application should be made to a depth of at least 15 inches. Fumigant penetration may be limited if a plow pan exists below the depth of the noble blade. Do not use plow sole application.

For soil injection, apply NEMASOL 42% as a proadcast treatment at a minimum rate of 30 gallons per acre using snanks, sweep blades or double winged shanks. Single shanks should be spaced no more than 6 inches apart with either single injection outlets no more than 6 inches deep or dual injection outlets spaced at 6 and 12 inches deep. Single sweep blades should be spaced no more than 12 inches apart with sweeps 12 inches wide and a spray nozzle that will provide broadcast coverage from sweep tip to sweep tip. Double-winged shanks should be spaced no more than 12 inches apart with no more than 9 inches between adjacent wings and with spray nozzles that provide uniform

For surface incorporation, apply NEMASOL 42% at the minimum rate of 30 gallons per acre as a broadcast application to the soil surface immediately in front of soil covering equipment such as rotary tillers, disks, etc... set to a minimum depth of 6 inches.

Sealing the Soil After Application

Immediately after application the soil must be sealed to prevent fumigant loss and ensure that an effective concentration of fumigant is maintained within the soil. Chisel traces resulting from the Telone it application must be disrupted to a depth of at least 4 to 6 inches. This may be accomplished with the NEMASOL 42% applicator or with a disk or similar

As a final step to compact the soil surface and help maximize soil sealing, all above applications must be followed with a ring roller or

Soil Fumigation Interval

Planting may take place only after the odors of both Telone II and NEMA-

SOL 42% are no longer present. Following application and sealing leave the soil undisturbed for 7-10 days. The longer undisturbed interval may be necessary if the soil is or becomes cold or wet during this period. For spring applications, thoroughly aerate the soil, after the initial undisturbed interval, by shallow plowing and/or disking to allow the furnigant odors to dissipate. Allow 21 days prior to planting, in addition to waiting 21 days, place indicator plants (e.g., potted tomato seedlings) in various places in the treated field and cover the plants with a "hot cap", plastic sheeting, bucket, etc., to trap and confine any furnes present. Leave the plants undisturbed for a minimum of 24 hours then examine for injury before planting the crop. Do not plant the crop if injury to indicator plants is observed. If noxious tumes are noticeable at planting, rework the soit.

 Use of this simultaneous application program of reduced rates of Telone II and NEMASOL 42% does not guarantee pest-free potatoes

 Use of Telone II and NEMASOL 42% according to these use directions will suppress root knot and lesion nematode populations present within the fumigated zone at the time of fumigation. The fumigated zone can vary depending upon a number of factors such as fumigant rate, application methods used, depth of fumigant application, soil moisture, soil type, soil temperature and soil tilth (including soil compaction and soil porosity). The simultaneous combination of reduced rates of Telone II and NEMASOL 42% will not suppress or prevent reinfestation subsequent to the treatment. Subsequent pest populations may infest the furnigated zone from irrigation water, equipment, potato seed and other sources of contamination, or may invade the fumigated zone from surrounding untreated soil such as from beneath the fumigated zone or from within unfumigated pockets within the fumigated zone.

 In fields with a history of severe Columbia root knot nematode problems, the maximum Federal label rate of 20 gallons of Telone II per acre is recommended in simultaneous combination with a minimum of 37.5 gallons of NEMASOL 42% per acre, per these label directions.

 With fall applications, a cover crop such as wheat or grass may be planted following the undisturbed soil interval associated with this application to reduce the potential for over winter soil erosion.

 Refer to the product labels affixed to the containers for both felone ill and NEMASOL 42% for further recommendations and precautions for optimum fumigant performance. Within the range of recommended soil conditions, product performance can be expected to improve as the soil conditions move towards optimum. Use of this simultaneous application program of Telone II and NEMASOL 42% under soil conditions outside the recommended range of soil conditions can be expected to yield less than satisfactory performance.

TREATMENT OF TREE REPLANT SITES

After removing dead or diseased trees and as much of the root system as possible, make a shallow basin over the planting site. Add NEMASOL 42% to the stream of water while filling the basin. Use 11/2 pts. NEMA-SOL 42% per 100 sq. ft. in sufficient water (depending on soil type) to penetrate at least 6 ft. For suppression of Oak Root Fungus, use a basin at least 20 ft. square. Increase dosage to 3 pts. per 100 sq. ft. in sufficient water to penetrate to the depth of the root system. If water is tanked to the planting site, add NEMASOL 42% to the water and mix before filling the basin. Tarping of replant sites is required when near (1/2 mile) to populated areas such as schools, hospitals, commercial or office buildings, factories, residential areas etc. Tarping is not required if treatment is further than 1/2 mile from such populated areas.

FOR TREATMENT OF SPECIFIC REPLANT DISEASES (SRD) IN FRUIT ORCHARDS NEMASOL 42% may be applied to prepared or unprepared sites as a

coarse spray treatment in a band using standard tractor spray application equipment. Use 56.25 to 75 gallons of NEMASOL 42% per treated acre. Apply irrigation water while spray application is taking place and continue until enough water has been applied to drive the NEMASOL 42% to the minimum depth of two feet. Depending on the kind of pest and the treatment depth desired, apply in sufficient water to wet the soil to the desired depth of treatment. Follow guidelines for "RUNOFF OF TREATMENT SOLUTIONS" section. The soil moisture should be at 30% or higher field capacity at the time of application. Because NEMASOL 42% is narmful to living plants, an appropriate interval must be observed between soil fumigation and planting. Planting can only begin 21 days (minimum) after treatment. Harvest of any fruit within one year of treatment is probibited

Soil should be in good bed condition to a depth of 8 to 13 in ches. Maintain adequate soil moisture during the spring season to bring sym-Maintain acceptate soil intestate during util-sussesses of the supersoil surface. Treat during July-August whur, sy, nphylids are in the upper soil surface. Apply, a minimum of 15 callons of NEMASOL 42% per acre (0.3 pints per 100 cd. fit of treated soil) using blade or thin blade chisel injectors spaced 5 inches apart. Inject below the level of Symphylid concentration, usually 6 to 8 inches, Pack soil immediately after the application.

TOBACCO PLANT BEDS

Fall applications are recommended whenever possible. Read and follow the use directions carefully. Treatment in the South should generally be

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made before November 30.

TARP METHOD - Prepare the bed 5 to 7 days before application to ensure best conditions for weed seed germination and furnigant action of NEMASOL 42%. The bed should be free of clods, level and in good filth. Apply 30 to 75 gallons per treated acre of NEMASOL 42% in sufficient water to wer the soil to the desired depth of treatment Apply uniformly over the entire bed. Cover the bed immediately with plastic cover. Keep covered no less than one day but no more than two days. The cover need not be tented, but should be secure to prevent wind from uncovering the treated area. Seven days after date of application, loosen the treated soil to a depth of 2 inches. Do not seed tobacco earlier than 21 days after the NEMASOL 42% application.

DRENCH METHOD - Apply 1.875 gallons of NEMASOL 42% in 150 to 200 gallons of water per 100 sq. yds. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow DIRECTIONS given previously for Field Applications - Where Entire Area is Being Treated.

NOTICE

PLATTE WARRANTS 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 PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL

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EXCEPT AS EXPRESSLY PROVIDED HEREIN, PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

FORMULATED BY
PLATTE CHEMICAL CO.
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