5481-423

(SODIUM METHYLDITHIOCARBAMATE)

Fungicide, and Rodenticide Act as amended, for the pesticide BPA Rog. No.

A SOIL FUMIGANT SOLUTION FOR ALL CROPS L

MAY BE APPLIED BY SOIL INJECTION, OR CHEMIGATION FOR CONTROL OF SOIL-BORNE PESTS THAT ATTACK ORNAMENTALS, FOOD AND FIBER CROPS.

Suppresses and/or Controls Weeds such as Annual Bluegrass, Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarter, Amaranthus species, Watergrass, Johnsongrass, Nutgrass, Wild Morning Glory and Purslane: Nematodes and Symphylids; Soil-borne diseases such as Rhizoctonia, Phythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers.

ACTIVE INGREDIENT:

INERT INGREDIENTS: 58.0% TOTAL 100.0%

Contains 4.26 lbs. METAM SODIUM per gallon

FOR THE FOLLOWING EMERGENCIES. PHONE 24 HOURS A DAY:

Medical: HAZARD INFORMATION SERVICES (HIS)......1-800-228-5635, Ext. 169

KEEP OUT OF REACH OF CHILDREN **DANGER** — PELIGRO

Si usted no entiende la etiqueta, busque a alquien 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).

STATEMENT OF PRACTICAL TREATMENT

Immediately start the procedures below and contact (H.I.S.) or 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 running water for at least 15 minutes. 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 physicians advice. Get medical attention immediately.

IF SWALLOWED: 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 month to an unconscious or convulsing person.

PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals DANGER

Corrosive: causes skin damage. May be fatal if absorbed through the skin. Do not get on skin or clothing. Prolonged 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.

See Side (or Back) Panel for Additional Precautionary Statements

FPA Reg. No. 5481-43

EPA Est. No. ☐ 5481-CA-1 ☐ 1448-MO-1 ☐ 61842-WA-1

PERSONAL PROTECTIVE EQUIPMENT (PE

(1) Handlers Performing Direct-Contact Tasks.

Direct-contact tasks include:

- · mixing, loading, or furnigant transfer with or without dry-disconnect fittings
- · equipment calibration or adjustment
- · equipment cleanup and repair
- spill cleanup
- · removal of tarp or plastic film
- · rinsate disposal
- · product sampling
- · application or soil-sealing outside an enclosed cab
- · any activity less than 6 feet from an unshielded pressurized hose containing this product
- · cleanup of small 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
- Chemical-resistant 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 organic-vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

(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

- Face-sealing goggles, unless full-face respirator is worn
- A respirator with either an organic-vapor-removing cartridge with a pre-filter approved for pesticides
 (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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 -- 40 CFR 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 handling tasks may be performed in a treated area outdoors.

- Assessing/adjusting the soil seal
- · Operating ventilation equipment
- · Assessing pest control, application technique, or application efficacy
- . 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
- · Chemical-resistant footwear and socks

Plus: If pungent, rotten egg odor of this product can be detected handlers must wear:

- · Face-sealing goggles (unless full-face respirator is worn) and
- A respirator with either an organic-vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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User Safety Requirements:

- 1: Respirator Requirements: When a respirator is required 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-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
- 2. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily 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's Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas.

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 through any irrigation system unless the chemigation instructions on this label are followed.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

CALIFORNIA ONLY: Application must be in compliance with Technical Information Bulletin-California: "METAM SODIUM Guidelines for all Application Methods for METAM SODIUM in California." This information bulletin 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 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted-entry intervals, and notifications to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

ENTRY RESTRICTIONS

OUTDOORS: Entry (including early entry that would otherwise be permitted 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 addition, if tarps are used for the application, non-handler entry is prohibited while tarps are being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting warning signs. The signs must state:

- "DANGER/PELIGRO"
- "PESTICIDES/PESTICIDAS"
- . "KEEP OUT/NO ENTRE"
- "METAM 426 (42%) IN USE"
- the date and time of fumigation
- · Name, address, and telephone number of the applicator

Post the WPS sign in compliance with 40 CFR Part 170, and follow the WPS requirements pertaining to location, legibility, color, size, and timing of posting and removal.

Outdoors: Post the furnigant warning signs at entrances to treated areas.

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

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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 impate. This step is essential for all methods of use. Immediately before application, cultivate lightly if the soil has crusted. See "POTATOES" section for specific directions on the application of METAM 426 to potato fields where no till stubble of cover crop exists. 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°F to 90°F in the treated zone. Treated zone is defined as the depth of treatment that METAM 426 achieves at the time of application. For other conditions see " "CULTIVATION AND PLANTING AFTER APPLICATION" section. 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 METAM 426 before it can be drenched into the soil with additional water. If fumes become unpleasant during treatment, apply more water to seal fumes into the soil where they should be confined to achieve maximum fumigation benefit. The activity of METAM 426 is increased by the use of tarp (plastic, paper or fabric) spread loosely over the treated areas and secured to prevent removal by wind. Keep covered for a minimum period of 48 hours. Seven days after treatment cultivate areas to a 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's use. Disassemble valves and clean carefully.

PRODUCT INFORMATION

METAM 426 is a water soluble liquid. When applied to properly prepared soil, the liquid is converted into a gaseous furnigant. After a sufficient interval of time, the gas dissipates leaving the soil ready for planting.

WHEN TO USE MAXIMUM AND MINIMUM RATES

The application rate of METAM 426 is dependent on the soil 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 addition, if the pest is in the upper portion of the soil profile (annual weeds), a lower application rate is generally required than if the pest is deeper in the soil profile and deeper penetration is desired (perennial weed seeds). When a range of application rates is given in this label, consult your local agricultural extension service for more specific information.

METAM 426 is recommended for the control and/or suppression of the following soil-borne pests that attack omamental, food and fiber crops: Weeds and germinating weed seeds, i.e., Annual Bluegrass, Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarter, Amaranthus *spp.* (Pigweed & Careless Weed), Watergrass, Johnsongrass, Nutgrass, Wild Morning-glory and Purslane; Nematodes and Symphylids (Garden Centipede); and Soil-borne Diseases such as Rhizoctonia, Phythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers.

USE PRECAUTIONS

Keep children and pets out of treated areas. All METAM 426 uses described on this label are intended for pre-plant soil preparation 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 turf or plants. Do not apply within three feet of the drip line of desirable plants, shrubs or trees. Do not use in confined areas or where fumes may enter nearby dwellings. Do not use in greenhouses. Keep container tightly closed when not in use. Do not store near feed or food.

NOTE: METAM 426 will control only those pests in the fumigation zone at the time of treatment. Reinfestation may occur subsequent to the fumigants dissipation from the soil.

TREATMENT GUIDELINES

For optimum results, certain procedures should be observed at designated times in the treatment program. Described below are important guidelines for each of the four stages of the treatment process.

- Pre-Application Planning
- Field Preparation Prior to Application
- Application
- Preparation for Planting After Application

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

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PLANNING AN APPLICATION

METAM 426 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 fumigation.

NOTE: This product will only control pests that are in the furnigated 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 only 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. See" POTATOES" section for specific directions on the application of METAM 426 to potato fields where no till stubble of cover crop exist.

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 METAM 426 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 METAM 426 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 tech squeeze a handful of soil into a ball and then gently try to break it apart with your fingers. 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.

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PHYTOTOXICITY

METAM 426 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 non-uniform distribution of the treated water.

APPLICATION OF METAM 426

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

USE OF DILUTED METAM 426

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 furnigant 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.

SEALING METAM 426 IN SOIL

To be most effective, METAM 426 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 or covering with an adequate amount of soil. 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

METAM 426 may be injected in a mixture with liquid fertilizers. Since the composition of liquid fertilizers vary considerably, the physical compatibility of each METAM 426/fertilizer tank mix should be checked by using the following procedure:

Mix a small quantity of METAM 426 and liquid fertilizer in the same ratio as they will be applied to the field, i.e., if 40 gallons of METAM 426 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 agitate 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.

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, daycare centers, 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 location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

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All words shall consist of letters of at least 2½ 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 a 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 METAM 426

When applying by chemigation methods, the following directions or warnings must be observed.

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin), furrow, border, or drip (trickle) irrigation system(s).

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 non-uniform distribution of treated water. If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

OBSERVE THE FOLLOWING PRECAUTIONS IF YOUR CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM

NOTE:

AMVAC CHEMICAL CORPORATION 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 pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of overflow rim of the reservoir 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 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, 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 pesticides 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 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 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.

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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 into for treatment.

STATEMENTS CONCERNING 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.

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

PREPARATION FOR PLANTING AFTER APPLICATION OF METAM 426

Effect of Rains

If a METAM 426 application is rained on less then 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 METAM 426 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, a 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 METAM 426. During cold and/or wet weather, frequent shallow cultivation can aid dissipation of METAM 426 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.

CAUTION: 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 furnigated to control soil-borne fungi, nematodes, insects, and weeds. The length of time required for furnigants 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 furnigant can greatly lengthen the waiting period (i.e., up to 30 days). The release period is short with (1) low rates of furnigant; (2) light soil; (3) high soil temperatures; (4) low soil moisture; (5) shallow application depth and (6) repeated cultivations after furnigation. Seeded crops are less susceptible to residual soil furnigant injury than transplanted crops. In general; furnigants escape slowly from cold, wet, heavy soils.

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The information below describes two simple tests to assay for harmful, residual som rumigants before planting.

Lettuce Seed Test

- 1. With a trowel dig into the treated soil to, or just below, the depth of application. Remove 2 to 4 small (1-2 oz) soil samples, mix briefly, and immediately place a portion in an air tight jar so that fumes will not escape. 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 jar with untreated soil (an untreated check) for comparison.
- 3. Place the jars at 65 to 85 degrees F in indirect sunlight (direct sunlight may kill the seed by overheating). Lettuce seed will not germinate in the dark.
- 4. Inspect the jars for germination in one to three days.
- 5. The soil is safe to plant if seed germinate as well in the treated soil as the untreated control.

CAUTION

- A. Be sure to sample the field properly in several areas, particularly low, wet sites.
- B. Be sure that the lids are airtight, (no grit under the seal).
- C. Be sure that the jars are placed fir. the light, (not direct sun).

Tomato Transplant Test

Transplant 5 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 varies 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 germination 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.)

NOTE: It may be necessary to stagger the injector placement on two or more tool bars to prevent soil build up during application.

Apply METAM 426 at the rate of 30 to 75 gallons per treated acre. Follow immediately with a roller to smooth and compact the soil surface. Light watering or tarping after rolling helps prevent gas escape.

When setting up your soil injection equipment with either spray blades, injection knifes 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 tool bars with the injection tools staggered. This will help prevent buildup of trash and aid in the soil sealing.

Example: Apply METAM 426 through injectors placed 4 inches below the soil surface and 5 inches apart.

Rotary Tiller or Power Mulcher

Spray dilute METAM 426 immediately in front of tiller or mulcher. Use 30 to 75 gallons per treated acre. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the furnigant into the soil. Light watering or tarping after rolling or bedshaping helps prevent the escape of gas.

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Disk Applied Method

Spray dilute METAM 426 immediately in front of disc. Use 30 to 75 gallons per treated acre. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the furnigant into the soil. Light watering or rolling helps prevent gas escape.

Sprinkler System

Use only sprinkler systems which give large water droplets to prevent excessive loss. Use 37.5 to 75 gallons of METAM 426 per treated acre in a minimum of one acre inch of water. For control of shallow pests (top 1 foot or less of soil profile), use 30 to 75 gallons of METAM 426 per treated acre and inject in only enough water to reach the desired treatment depth. 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 soil surface dried quickly, reseal it by running sprinklers for 20 minutes once a day for the next day or two. On very light soils, keep surface moist by sprinkling for 2 or 3 days.

Follow use precautions in "GENERAL PRECAUTIONS FOR IRRIGATION SYSTEMS" section above.

Application Over Cover Crops

METAM 426 can be applied through sprinkler irrigation systems over cover crops such as alfalfa, clover, and grasses such as Rye, Oats, Wheat and Sudan. When applied over cover crops, no soil cultivation is required before the application.

Effect of Air Temperature and Winds on Sprinkler Applications

When using the sprinkler application method, apply METAM 426 only when the air temperature is below 90°F. This precaution is recommended to guard against evaporation of the product. Low humidity 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.

Runoff of Treatment Solutions

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

Check. Flood (Basin) Furrow and Border

Meter METAM 426 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" section above.

Field Application to Beds or Rows

Soil Injection

METAM 426 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 inches to cover the desired treating width. Use thin injection shank(s) and inject METAM 426, 4 inches deep into well prepared soil. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the fumigant into the soil. Light watering or a tarp after rolling helps to prevent gas escape. Apply at the rate of 36.9 to 92.2 fluid ounces/1,000 linear feet of bed per chisel (30 to 75 gallons/treated acre). Space shanks 5 inches apart to cover the desired treating width. If METAM 426 is injected into established plant beds through plastic tarps to terminate growth of a previous crop, and to fumigate the bed in preparation of planting a subsequent crop, the terminated crop must not be used for any food or feed purposes after METAM 426 has been applied.

Soil Covering Method (Bed-over methods)

METAM 426 may be sprayed or dripped in a bed wide band onto the soil immediately ahead of bedshaping equipment. Cover the METAM 426 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 or 4.4 to 22 fluid ounces per 100 linear feet of row (12-inch wide bed.) If a narrower or wider bed is to be treated, adjust the fluid ounces per 100 linear feet of row to reflect the actual treated acres.

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Rotary Tiller or Power Mulcher:

Spray METAM 426 immediately in front of the tiller or mulcher. Use 30 to 75 gallons per treated acre. Follow immediately with a bedshaper, roller press wheel, or similar device, or cover with an adequate amount of soil to seal the furnigant into the soil. Light watering or a tarp after rolling may be used to help prevent gas escape.

DRIP IRRIGATION SYSTEM

METAM 426 must be applied through a drip irrigation system to wet the soil thoroughly in the area being treated. Meter 30 to 57 gallons METAM 426 per treated acre into the drip system during the entire irrigation period. APPLICATION MUST BE CONTINUOUSLY SUPERVISED. THIS IS VERY IMPORTANT: AN ADEQUATE CONCENTRATION OF METAM 426 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 ½ " in diameter.
- (2) Beds must be listed, shaped and ready for planting.
- (3) Soil moisture must be 50% of field capacity in the top 2-3" at time of application.

Method of Determining Fluid Ounces per 100 Feet of Linear Row

- (1) Determine width of bed in feet by dividing width of bed in inches by 12. Example: 5" bed = 5" divided by 12 = 0.4166 feet.
- (2) Determine square feet in 1001inear feet of bed by multiplying the width of the bed by 100. Example: 0.4166 feet x 100 feet ≈ 41.66 square feet.
- (3) Determine the treated acres per 100 linear feet of bed by dividing the square feet by 43,560 (square feet in acre). Example: 41.66 square feet divided by 43,560 = 0,00096 acre.
- (4) To determine the fluid ounces per 100 linear feet.
 - a) 1 gallon = 128 fluid ounces; 50 gallons = 6,400 fluid ounces; 75 gallons = 9,600 fluid ounces
 - b) multiply fluid ounces by acres. Example: 50 gallons = 6,400 fluid ounces x 0.00096 = 6.14 fluid ounces per 100 linear feet row.

ADDITIONAL RECOMMENDATIONS

Seed Treatment

A suitable fungicide should be used to treat all crop seed being planted into the treated soil.

PEANUTS

For control of Cylindrocladium Black Rot (CBR) and nematodes, apply METAM 426 at the rate of 7.5 gallons per acre (6.61 fluid ounces per 100 linear feet of row).

Use with partially resistant cultivators (NC-10C or others as designated by your local Agricultural Extension Service) in cases of severe disease pressure. Plant other varieties only in cases of light CBR pressure.

Soil Preparations

Before applying METAM 426, all residue from the previous crop should be decomposed (enhance by fall disking) and plowed under in the Spring with a mold-board plow. Soil incorporated preplant herbicides must by applied prior to the application of METAM 426.

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 mix untreated soil with 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 METAM 426. An at planting nematocide treatment will be necessary in fields with heavy infestations of Root Knot, Ring and/or Sting nematodes.

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PEPPERMINT

Verticillium Wilt: When infestation is limited to small spots in a field, the spread of Verticillium can be reduced by treating the infected spots. Apply at the rate of up to 75 gallons of METAM 426 per treated acre using injector blade or thin shank injector rig. Follow directions for "FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED."

POTATOES

For suppression of potato pests such as Nematodes, weed seeds and Verticillium Dahlia (Early Maturity Disease).

Soil Injection: Use 30 to 75 gallons per treated acre of METAM 426 following the directions for "FIELD APPLICATION WHERE ENTIRE AREA IS TREATED".

Sprinkler System Preplant Applications:

Apply 38 to 75 gallons of METAM 426 per treated acre in sufficient water to penetrate to the desired treatment depth. Meter continuously 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 facilitate even water penetration without runoff.

NOTE:

- 1. METAM 426 may be applied where a crop stubble or vegetation exists without prior tillage, provided there is adequate penetration of the product.
- 2. METAM 426 will suppress root knot nematodes in the treatment zone at the time of treatment. The treatment zone is defined as the depth of penetration that METAM 426 achieves at the time of application. If 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. METAM SODIUM has no residual activity and reinfestation of a treated field can occur from numerous sources such as deep nematode populations, seed pieces, irrigation water, equipment contamination and blowing wind.

Early Maturity Diseases of Potatoes in the Pacific Northwest

Apply 30 gallons METAM 426 per treated acre using the soil injection' method as described in the "FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED" section.

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 METAM 426 to the stream of water while filling the basin. Use 1½ pints of METAM 426 per 100 square feet in sufficient water (depending on the soil type) to penetrate at least 6 feet. For control of Oak Root fungus, use a basin of at least 20 feet square. Increase dosage to 3 pints per 100 square feet in sufficient water to penetrate to the depth of the root system. If water is tanked to the planning site, add METAM 426 to the water and mix before filling the basin. Tarping of replant sites is required when near (½ 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 ½ mile from such populated areas.

SYMPHYLID SUPPRESSION

Soil should be in good seed bed condition to a depth of 8 to 10 inches. Maintain adequate moisture during the spring season to bring Symphylids to the upper soil surface. Treat during July - August when Symphylids are in the upper soil surface. Apply a minimum of 15 gallons of METAM 426 per treated acre (0.3 pints per 100 square feet 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 made before November 30.

Tarp Method

Prepare the bed 5 to 7 days before application to insure best conditions for weed seed germination and fumigant action of METAM 426. The bed should be free of clods, level and in good tilth. Apply .75 to 1.125 gallons of METAM 426 in a minimum of 40 gallons of water per 100 square yards. 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 the date of application, loosen the treated soil to a depth of 2 inches. Do not seed tobacco earlier than 21 days after the METAM 426 application.

Drench Method

Apply 1.875 gallons METAM 426 in 150 to 200 gallons of water per 100 square yards. Application may be made with sprinklers, sprayers with nozzles or any suitable equipment. Follow directions given above for "FIELD APPLICATIONS - WHERE ENTIRE AREA IS BEING TREATED".

STORAGE AND DISPOSAL

PROHIBITIONS: 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 32°F. Product crystallizes at lower temperatures. If exposed, warm or store at higher temperatures and mix to redissolve crystals and assure uniformity before use.

PESTICIDE DISPOSAL: Pesticides wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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.

NOTICE:

AMVAC warrants that (a) this product conforms to the chemical description of its label; (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, warnings cautions, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, of residues on food crops, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states or under all application, weather and crop conditions.

There are no express warranties other than those set forth herein. AMVAC neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. AMVAC expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality or performance. This warranty does not extend to, and the User shall be solely responsible for, any loss or damage which results from the use of this product in any manner which is inconsistent with this label's directions, warnings or cautions.

User's exclusive remedy and AMVAC's or Seller's exclusive liability for any claim, loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise, shall be limited, at AMVAC's option, to replacement of, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall AMVAC or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

AMVAC CHEMICAL CORPORATION

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