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5481-423

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# METAM 426

## SOIL FUMIGANT SOLUTION FOR ALL CROPS

Refer to Supplemental PRODUCT USE & CHEMIGATION BOOKLET for Additional Instructions  
MAY BE APPLIED BY SPRINKLER, SOIL INJECTION, OR CHEMIGATION  
FOR CONTROL OF SOIL-BORNE PESTS THAT ATTACK  
ORNAMENTALS, FOOD AND FIBER CROPS.

Controls Weeds such as Annual Bluegrass, Bermudagrass, Chickweed,  
Dandelion, Ragweed, Henbit, Lambsquarter, Amaranthus species,  
Watergrass, Johnson Grass, Nutgrass, Wild Morning-glory and Purslane.  
Nematodes and Symphyllids

Soil-Borne diseases such as Rhizoctonia, Pythium, Phytophthora, Verticillium,  
Sclerotinia, Oak Root Fungus and Club Root of Crucifers.

ACTIVE INGREDIENT: Sodium methylthiocarbamate(anhydrous)	42%
INERT INGREDIENTS: - - - - -	58%
	<b>TOTAL 100%</b>

Contains 4.26 lbs. Active ingredient METAM SODIUM per gallon.

### KEEP OUT OF REACH OF CHILDREN WARNING

"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado completamente"

#### 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 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 victims 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 mouth to an unconscious or convulsing person.

#### PRECAUTIONARY STATEMENT

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING:** Harmful if inhaled or swallowed, irritating to eyes, nose, throat and skin. Avoid breathing vapors or spray mist. Do not get in eyes, on skin, or clothing. Causes skin irritation. May be fatal if absorbed through the skin. In case of contact, immediately remove contaminated clothing. Wash and dry clothing before reuse. Keep children & pets out of treated areas until treatment is completed and pesticide has dissipated.

##### PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS

A. The following protective clothing and equipment are required to be used by persons actually engaged in carrying out any operations that are likely to involve direct contact with Metam Sodium including mixing-loading, equipment calibrations or adjustments, clean up and repair of application equipment (equipment includes, but is not restricted to, chemigation equipment, shanks, tillers, drop lines, and holding tanks); sampling; clean up of spills; fumigant transfer; and residue disposal, or by any other person engaging in activities likely to result in direct contact with the product. This protective equipment must also be used for any operations that are done within 6 feet of unshielded, pressurized hoses containing Metam Sodium.  
(1). A properly **FIT TESTED** NIOSH- or MSHA approved half-face respirator with organic vapor cartridge plus non-venting chemical goggles, or a NIOSH- or MSHA-approved full-face respirator with organic vapor cartridges. (2). Body covering that has long sleeves and long pants. When a closed system is not used, mixers and loaders must also wear a chemical resistant apron or cloth coveralls. (3). Chemical resistant gloves and boots.  
B. The following protective clothing must be worn at all times by persons operating or monitoring application equipment or entering treated fields within 48 hours after completion of application. See **REENTRY AND WORKER SAFETY STATEMENT** on this label. (1). Chemical resistant footwear. (2). Body covering that has long sleeves and long pants.  
C. The following protective clothing and equipment must be immediately available at all times for use by persons operating tractor drawn ground application equipment, or entering treated fields within 48 hours after completion of application. See: **REENTRY AND WORKER SAFETY STATEMENT** on this label.  
(1). A properly **FIT TESTED** NIOSH- or MSHA- approved half-face respirator with organic vapor cartridge plus non-venting chemical goggles, or a NIOSH- or MSHA approved full-face respirator with organic vapor cartridges. This equipment must be worn when the pungent, rotten egg odor of Metam Sodium is detected.  
(2). Chemical resistant gloves. These must be worn when a person is engaged in carrying out any operation that is likely to involve direct contact with the product, including operations listed in the preceding paragraph A above. (See Side Panel For Additional Precautionary Statements)

EPA REG. NO. 5481-423 EPA EST. NO. 5481-CA-1  
NET CONTENTS GALLONS

**AMVAC CHEMICAL CORPORATION**  
4100 East Washington Blvd. - Los Angeles, CA 90023 - U.S.A.

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## REENTRY AND WORKER SAFETY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas for 48 hours after application unless protective clothing is worn (Chemical resistant footwear and body covering clothing with long sleeves and long pants; respirator, if odor is detected, and chemical resistant gloves, if direct contact with product is involved). Because certain States may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. Written or oral warning must be given to workers who are expected to be in treated areas or in an area to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information.

**WARNING:** Area treated with Metam 426 on Date ( ). Do not enter without appropriate protective clothing for 48 hours after application. In case of accidental exposure see STATEMENT OF PRACTICAL TREATMENT found on the Metam 426 label. Precaution is also required. Consult your State Department of Agriculture for further information.

## 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 by cleaning of equipment or disposal of wastes. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas. Do not use in a greenhouse.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to Supplemental PRODUCT USE and CHEMIGATION BOOKLET. Do not apply this product through any irrigation system unless the supplemental labeling in this BOOKLET, or the chemigation instructions on this label, are followed.

## 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 60° 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:** Pesticide 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.

**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 irrigate. 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 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 degrees 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 section, "CULTIVATION AND PLANTING AFTER APPLICATION." Do not apply to soil surface, as in the sprinkler method, when air temperature is over 90 degrees 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 the 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 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 fumigant. After 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 of the following soil-borne pests that attack ornamental, food and fiber crops:  
**Weeds and germinating weed seeds:** Annual Bluegrass, Barnyardgrass, Chickweed, Dandelion, Ragweed, Henbit, Lamb's-quarter, Amaranth, sp. (Pigweed & Careless Weed), Watergrass, Johnson Grass, Nutgrass, Wild Morning-glory and Fumaria; **Nematodes and Symphytids (Garden Centipedes) and Soil-borne Diseases such as (Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root - Crucifers).**

**USE PRECAUTIONS:** Keep children and pets out of treated area. Keep desirable lawns and plants. Do not apply within 3 feet of the drip line of desirable plants, shrubs or trees. Do not use in confined areas or where fumes may enter nearby houses. Do not use in greenhouses. Keep container tightly closed when not in use. Do not store near feed or food.

### CULTIVATION AND PLANTING AFTER APPLICATION

On well drained soil of light to medium texture which are not excessive wet or cold following application, planting may take place 14 to 21 days after treatment. If soils are heavy or especially high in organic matter, remain wet and/or cold (below 60°F.) following application of Metam 426 an extended interval should be observed. Where doages are greater than 75 gals. per acre, wait at least 60 days. On heavy, wet soil light surface cultivation to break up crusting and promote drying of the soil should be done 5 to 7 days after application. This cultivation may be repeated as necessary. To avoid reinfesting treated soils, cultural practices should be such that untreated soils are not mixed with treated soil.

**SPECIAL INSTRUCTIONS:** When treating heavier soils, including or high in clay or organic matter, it is essentially important that the soils be allowed to aerate and dry thoroughly after using METAM 426. During cold and/or wet weather, frequent shallow cultivations may aid the escape of METAM 426 from the soil. If in doubt transplant a seedling plant and examine for injury before planting crop.

### FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED

**SOIL INJECTION:** Space thin injection shanks 5 inches apart and inject METAM 426 4 inches deep into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or tarp after rolling helps to prevent gas escape. For field use, 30 to 75 gallons of METAM SODIUM per acre is recommended.

**ROTARY TILLER or POWER MULCHER:** Spray METAM 426 immediately in front of the tiller or mulcher. Use 37.5 to 75 gallons per acre. Follow immediately with a roller to seal soil surface. Light watering or a tarp after rolling helps to prevent gas escape.

**SPRINKLER SYSTEM:** Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 56.25 gals. to 75 gals. METAM 426 per acre. For control of shallow pests (top 1 ft. of soil), run sprinklers 5 to 10 minutes. In next 10 to 20 minutes inject all METAM 426 needed for the area covered. On very light soils keep surface moist by sprinkling for 2 to 3 days. For control of pests deeper than 18 inches in the soil divide METAM 426 into 3 or more equal parts and apply at intervals during the sprinkling period.

**CALIFORNIA ONLY:** Application must be in compliance with Technical Information Bulletin - California: "Application Guidelines for California When Applying Metam 426 Through Sprinkler Irrigation Systems". This information bulletin may be obtained from your local pesticide dealer or Metam Sodium registrant.

**CHECK OR FLOOD IRRIGATION:** Meter METAM 426 at a steady rate into water during irrigation. Apply 37.5 to 75 gal. per acre depending upon the kind of pest and depth desired, in 3" to 18" of water per acre.

### 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 roller to seal chisel channel(s). Light watering or a tarp after rolling helps to prevent gas escape. Apply at the rate of 37 to 75 fluid ounces / 1,000 linear feet of bed per chisel (30 to 75 gals./treated acre).

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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 Sodium 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 37.5 to 75 gallons per acre of treated soil or 11 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 /100 linear feet of row to reflect the actual treated acres.

**ROTARY TILLER or POWER MULCHER:** Spray METAM 426 immediately in front of the tiller or mulcher. Use 37.5 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.

**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: 8" bed = 8" divided by 12" = 0.666 feet
- 2) Determine square feet in 100 linear feet of bed by multiplying the width of the bed by 100. Example: 0.666 ft. x 100 ft. = 66.66 sq. ft.
- 3) Determine the treated acres per 100 linear feet of bed by dividing the sq. ft. by 43,560 (sq. ft. in acre). Ex: 66.66 sq. ft. divided by 43,560 = 0.0015 acre.
- 4) To determine the fluid ounces per 100 linear ft.
  - a) 1 gal. = 128 fl. oz.; 50 gals. = 6400 fl. oz.; 100 gal. = 12,800 fl. oz.
  - b) multiply fluid ounces by acres. Example: 50 gals. = 6400 fl. oz. x 0.0015 = 9.6 fl. oz. per 100 linear feet row.

**DRIP IRRIGATION SYSTEM**

METAM 426 must be applied through a drip irrigation system to wet the soil thoroughly in the area being treated. Meter 19 to 55 gallons Metam Sodium per treated acre into the drip system during the entire irrigation period. APPLICATION MUST BE CONTINUOUSLY SUPERVISED. THIS IS VERY IMPORTANT; WEED ELIMINATION WILL NOT BE SATISFACTORY IF TOO MUCH WATER IS APPLIED. An adequate concentration of Metam Sodium 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). Soil moisture must be 50% of field capacity in the top 2-3" at time of application.

**TOBACCO PLANT BEDS**

All applications are recommended wherever possible. Read and follow directions carefully. Treatment in the South should generally be made before November 30th. Prepare the bed 5 to 7 days before application to insure best conditions for weed seed germination and fumigant action. The bed should be free of clods, level and in good tilth. Cover the bed immediately after treatment 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 application.

**A. TARP METHOD** - Apply 3/4 to 1 gallon of METAM 426 in a minimum of 40 gallons of water per 100 sq. yds. Apply uniformly over the entire bed. Follow GENERAL DIRECTIONS given above.

**B. DRENCH METHOD** - Apply 2 gallons of METAM 426 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 GENERAL INSTRUCTIONS given above.

**POTATOES**

For suppression of potato pests such as nematodes, weed seeds and verticillium diseases; **SOIL INJECTION** - Apply 30 gals./acre of METAM 426. Follow directions for **FIELD APPLICATION WHERE ENTIRE AREA IS TREATED.**

**SPRINKLER SYSTEM PRE-PLANT** : Apply 37.5 to 75 gallons of METAM 426 / acre. Inject into a sprinkler system that can deliver an even water distribution for the area being treated. Soil temperatures should be in the range of 40°F. to 80°F. in the treatment zone. On very light soils, keep surface area moist by sprinkling periodically for 2 to 3 days. Apply in a minimum of 1 acre inch of water. METAM 426 may be applied where crop stubble or vegetation exist without prior tillage, provided there is adequate soil penetration of METAM 426.

**PEPPERBENT**

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 100 gallons of METAM SODIUM per acre using injector blade or thin shank injector rig. Follow directions for "FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED."

**NOTICE:** This product conforms to its chemical description and is reasonably fit for the purpose stated on the label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller, and the buyer assumes the risk of any such use.

See SUPPLEMENTAL BOOKLET for Chemigation, Bymphylid Control and Treatment of Tars and Bitumens. (M-423AM PM3 12-01-91)

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# METAM 426

## SOIL FUMIGANT SOLUTION FOR ALL CROPS

Refer to Supplemental PRODUCT USE & CHEMIGATION BOOKLET for Additional Instructions  
**MAY BE APPLIED BY SPRINKLER, SOIL INJECTION, OR CHEMIGATION**  
**FOR CONTROL OF SOIL-BORNE PESTS THAT ATTACK**  
**ORNAMENTALS, FOOD AND FIBER CROPS.**  
**Controls Weeds such as Annual Bluegrass, Bermudagrass, Chickweed,**  
**Dandelion, Ragweed, Henbit, Lambquarter, Amaranthus species,**  
**Watergrass, Johnson Grass, Nutgrass, Wild Morning-glory 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 methylthiocarbamate(anhydrous) - 42%  
 INERT INGREDIENTS: - - - - - 58%  
 TOTAL 100%

Contains 4.26 lbs. Active Ingredient METAM SODIUM per gallon

### KEEP OUT OF REACH OF CHILDREN WARNING

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#### STATEMENT OF PRACTICAL TREATMENT

Immediately start the procedure 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.  
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#### PRECAUTIONARY STATEMENT

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**WARNING** Harmful if inhaled or swallowed, irritating to eyes, nose, throat and skin. Avoid breathing vapors or spray mist. Do not get in eyes, on skin, or clothing. Causes skin irritation. May be fatal if absorbed through the skin. In case of contact, immediately remove contaminated clothing. Wash and dry clothing before reuse. Keep children & pets out of treated areas until treatment is completed and pesticide has dissipated.

##### PROTECTIVE CLOTHING AND EQUIPMENT REQUIREMENTS

A. The following protective clothing and equipment are required to be used by persons actually engaged in carrying out any operations that are likely to involve direct contact with Metam Sodium including re-loading, equipment calibrations or adjustments, clean up and repair of application equipment (equipment includes, but is not restricted to, chemigation equipment, shanks, blenders, drop lines, and holding tanks), sampling, clean up of spills, fumigant transfer, and insect disposal, or by any other person engaging in activities likely to result in direct contact with the product. This protective equipment must also be used for any operations that are done within 6 feet of unshielded, pressurized hoses containing Metam Sodium.  
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 B. The following protective clothing must be worn at all times by persons operating or monitoring application equipment or entering treated fields within 48 hours after completion of application. See REENTRY AND WORKER SAFETY STATEMENT on this label. (1) Chemical resistant footwear. (2) Body covering that has long sleeves and long pants.  
 C. The following protective clothing and equipment must be immediately available at all times for use by persons operating tractor drawn ground application equipment, or entering treated fields within 48 hours after completion of application. See REENTRY AND WORKER SAFETY STATEMENT on this label.  
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 (2) Chemical resistant gloves. These must be worn when a person is engaged in carrying out any operation that is likely to involve direct contact with the product, including operations listed in the preceding paragraph A above.  
 (See Side Panel For Additional Precautionary Statements)

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#### REENTRY AND WORKER SAFETY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas for 48 hours after application unless protective clothing is worn (Chemical resistant footwear and body covering clothing with long sleeves and long pants, respirator, if odor is detected, and chemical resistant gloves, if direct contact with product is involved). Because certain States may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.  
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**WARNING:** Area treated with Metam 426 on Date ( ). Do not enter without appropriate protective clothing for 48 hours after application. In case of accidental exposure see STATEMENT OF PRACTICAL TREATMENT found on the Metam 426 label. Posting is also required. Consult your State Department of Agriculture for further information.

#### 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 washwaters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas. Do not use in a clandestine manner.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to Supplemental PRODUCT USE and CHEMIGATION BOOKLET. Do not apply this product through any irrigation system unless the supplemental labeling in the BOOKLET, or the chemigation instructions on this label, are followed.

#### 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 60°F. Product crystallizes at lower temperatures. If exposed, warm or store at higher temperatures and mix to redissolve crystals and reuse uniformly before use.  
**PESTICIDE DISPOSAL:** Pesticide wastes, e.g. toxic improper disposal of excess pesticide, spray mixture, or mixtures 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.

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The activity of METAM 426 is increased by the use of tarp (plastic, paper or fabric) spread loosely over the treated area 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 IN

METAM 426 is a water soluble liquid. When the liquid is converted into a gas it is the gas that disperses leaving the soil surface.  
**WHEN TO USE MAXIMUM**  
 The application rate of METAM 426 is based on the position in the soil of the pest. Generally a 1/2 inch sandy soil requires a heavier soil. In addition, if the pest is (annual weeds) a lower application rate is deeper in the soil profile and deeper (seeds). When a range of application is local agricultural extension service for METAM 426 is recommended for the control of that attack ornamentals, food and fiber crops. **Weeds and germinating weed seeds:** Chickweed, Dandelion, Ragweed, Wild Morning-glory and Purslane; **Non-Crucifers** and **Soil-borne Diseases:** Rhizoctonia, Verticillium, Sclerotinia, Club Root of Crucifers.

**USE PRECAUTIONS:** Keep children and desirable lawn and plants. Do not use on desirable plants, shrubs or trees. Do not use on or near houses. Do not use in closed when not in use. Do not store in closed when not in use. Do not store in closed when not in use. Do not store in closed when not in use.

**CULTIVATION AND PLANTING**  
 On well drained, light to medium or cold following application, planting treatment. If soil is heavy, it is essential and/or cold (below 60°F.) following intended interval should be observed. On per acre, use at least 60 days. Do not break up or till and promote dry after application. This cultivation may reventilating treated soils, cultural practices are not mixed with treated soils.

**SPECIAL INSTRUCTIONS:** When in clay or silt, further, it is essential to aerate and dry thoroughly after use. Frequent shallow cultivation from the soil. If in doubt transplant 2-3 before planting crop.

**FIELD APPLICATION - WHERE**  
**SOIL INJECTION:** Space thin insect METAM 426 4 inches deep into the soil a roller to smooth and compact the soil rolling helps to prevent gas escape. F SODIUM per acre is recommended.

**ROTARY TILLER or POWER MULCH:** front of the tiller or mulcher. Use immediately with a roller to seal soil rolling helps to prevent gas escape.

**SPRINKLER SYSTEM:** Use only the water droplets to prevent excessive loss. 426 per acre. For control of shallow to 10 minutes. In next 10 to 20 minutes area covered. On very light soils 7-10 days. For control of pests deeper than 3 or more equal parts and apply CALIFORNIA ONLY Application information Bulletin - California "Applying Metam 426 Through Sprinkler System" is obtained from your local registrant.

**CHECK OR FLOOD IRRIGATION:** water during irrigation. Apply 37.5 to of pest and depth desired, in 3" to **FIELD APPLICATION**

**SOIL INJECTION METAM 426** following the directions given above band in desired spaces 2 or more inches desired treating width. Use thin inches deep into well prepared soil channels (metal). Light watering or escape. Apply at the rate of 37 to per chest (3) to 75 gals. treated a

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 Based on... 7/1/92

includes, but is not restricted to, chemigation equipment, shanks, blers, drop lines, and holding tanks), sampling, clean up of spills, fumigant transfer, and rinses disposal, or by any other person engaging in activities likely to result in direct contact with the product. This protective equipment must also be used for any operations that are done within 6 feet of unshielded, pressurized hoses containing Metam Sodium.

(1) A properly **FIT TESTED** NIOSH- or MSHA approved half-face respirator with organic vapor cartridge plus non-venting chemical goggles, or a NIOSH- or MSHA approved full-face respirator with organic vapor cartridges. (2) Body covering that has long sleeves and long pants. When a closed system is not used, messes and loaders must also wear chemical resistant apron or cloth coveralls. (3) Chemical resistant gloves and boots.

B. The following protective clothing must be worn at all times by persons operating or monitoring application equipment or entering treated fields within 48 hours after completion of application. See **REENTRY AND WORKER SAFETY STATEMENT** on this label. (1) Chemical resistant footwear. (2) Body covering that has long sleeves and long pants.

C. The following protective clothing and equipment must be immediately available at all times for use by persons operating tractor drawn ground application equipment, or entering treated fields within 48 hours after completion of application. See **REENTRY AND WORKER SAFETY STATEMENT** on this label.

(1) A properly **FIT TESTED** NIOSH- or MSHA- approved half-face respirator with organic vapor cartridge plus non-venting chemical goggles, or a NIOSH- or MSHA approved full-face respirator with organic vapor cartridges. This equipment must be worn when the pungent, rotten egg odor of Metam Sodium is detected. (2) Chemical resistant gloves. These must be worn when a person is engaged in carrying out any operation that is likely to involve direct contact with the product, including operations listed in the preceding paragraph A above.

6

### TREATMENT OF TREE REPLANT SITES IN COMMERCIAL ORCHARDS

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 Sodium to the stream of water while filling the basin. Use 3/4 quart of Metam 426 per 100 sq. ft. in sufficient water (depending on the soil type) to penetrate at least 6 ft. For control of Oak Root Fungus, use a basin of at least 20 ft. x 20 ft. square. Increase dosage to 1 1/2 quarts 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 Metam 426 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.

### SYMPHYLID CONTROL

Soil should be in good bed condition to a depth of 6 to 10 inches. Maintain adequate soil moisture during the Spring season to bring symphytids to the upper soil surface. Treat during July-August when symphytids are in the upper soil surface. Apply as a broadcast treatment at 15 gallons METAM 426 per acre using blade or chisel injectors. Inject below level of Symphytoid concentration, usually 6 to 8 inches. Pack soil with a roller immediately after application.

### WHEN TO USE MAXIMUM AND MINIMUM RATES

The application rate of METAM SODIUM 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). Where a range of application rates is given in this label consult your local agricultural extension service for more specific information.

**STATEMENTS CONCERNING CHEMIGATION OF METAM SODIUM**  
Apply this product only through [choose one or more of the following types of systems: sprinkler including center pivot, lateral move, and low, side (wheel) roll, traveler, big gun, solid set, or hand move flood (basin) furrow, border, or drip (trickle) irrigation system(s)].

2

### REENTRY AND WORKER SAFETY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas for 48 hours after application unless protective clothing is worn (Chemical resistant footwear and body covering with long sleeves and long pants; respirator, if odor is detected, and chemical resistant gloves, if direct contact with product is involved.) Because certain States may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warning must be given to workers who are expected to be in treated areas or in an area to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information.

**WARNING:** Area treated with Metam Sodium on Date [\_\_\_\_\_] Do not enter without appropriate protective clothing for 48 hours after application. In case of accidental exposure see **STATEMENT OF PRACTICAL TREATMENT** found on the Metam Sodium label. Posting is also required. Consult your State Department of Agriculture for further information.

### 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 discharging or equipment washwaters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when conditions favor drift from treated areas. Do not use in a greenhouse.

7

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 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

Public water system means 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.

3

**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 supplemental labeling in this BOOKLET, or the chemigation instructions on the product label, are followed.

### 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 crystallizes at lower temperatures. 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 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:** This product conforms to its chemical description and is reasonably fit for the purpose stated on the label, when used in accordance with directions under normal conditions of use. Manufacturer is not responsible for the use of this product contrary to the label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to the manufacturer and/or seller and the buyer assumes the risk of any such use. 154-423A4 PMR / 08-23-92 vers of 12-08-91 copy accptd 8-16-92

8

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

Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 50 to 75 gallons of METAM 426 per acre. For control of shallow pests (top 1 ft. or less of soil), run sprinklers 5 to 10 min. in the next 10 to 20 minutes inject into the sprinkler system all METAM 426 needed for the area covered. On very light soils keep surface moist by sprinkling for 2 or 3 days. For control of pests deeper than 18 inches in the soil, divide METAM 426 in 3 or more equal parts and apply at intervals during the sprinkling period.

### 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.

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.

4

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