

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (TS-767)
WASHINGTON, DC 20460

EPA REGISTRATION NO.

5481-449

DATE OF ISSUANCE

MAY 6 1981

TERM OF ISSUANCE

CONDITIONAL

NAME OF PESTICIDE PRODUCT

METAM SODIUM 42% EP

NOTICE OF PESTICIDE.

☒ REGISTRATION
☐ REREISTRATION

(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Amvac Chemical Corporation
4100 East Washington Blvd.
Los Angeles, CA 90023

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

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

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

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

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

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the labeling changes listed below before you release the product for shipment:

a. Add the phrase "EPA Registration No. 5481-449."

b. Change the product name from "Metam Sodium 42% EUP" to "Metam Sodium 42% EP".

3. You have certified that the label for this product is in complete accordance with the labeling requirements of PL Notice 93-7, which reflects the requirements of EPA's labeling regulations for worker protection statements (40 CFR part 156, subpart K). This certification has been added to the product files.

☒ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

Conditional registration of this product does not relieve you of any obligation to comply with the Worker Protection Standard(WPS).

4. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

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

Steve Robbins
Acting Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

METAM SODIUM 42% EUP

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

ACTIVE INGREDIENT: Sodium methyldithiocarbamate(anhydrous) - 42%
INERT INGREDIENTS: - 58%
TOTAL 100%

Contains 4.26 lbs. Active Ingredient METAM SODIUM per gal.

KEEP OUT OF REACH OF CHILDREN WARNING

Si usted no entiende la etiqueta, busque a alguien para que se le 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 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 victim's airway and start mouth to mouth artificial respiration. If breathing is difficult, give oxygen, preferably with a physician's advice. Get medical attention immediately. **IF SWALLOWED:** Immediately give several glasses of water but do not induce vomiting. If vomiting 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 vapor 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, tanks, 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 8 feet of unshelved, 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.

See Side Panel For Additional Precautionary Statements

EPA REG. NO. 5481-421 EPA EST. NO. 5481-CA-1

NET CONTENTS GALLONS

AMVAC CHEMICAL CORPORATION

4100 East Washington Blvd. - Los Angeles, CA 90023 - U.S.A.

REENTRY AND WORKER SAFETY STATEMENT

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

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

WARNING: Area treated with METAM SODIUM 42% EUP on Date: _____
Do not enter without appropriate protective clothing for 48 hours after application of product. See STATEMENT OF PRACTICAL TREATMENT on the METAM SODIUM 42% EUP label. Posting is also required. Consult State Department of Agriculture for further information.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to areas below the mean high water mark. Do not contaminate water when in use of equipment washwaters. Do not contaminate irrigation ditches or water impoundment or domestic purposes. Do not apply when conditions favor drift from 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. The supplemental labeling in this BOOKLET for the chemigation instruction 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; store below 60° F. Product crystallizes at lower temperatures. If exposed, store at higher temperatures and must dissolve crystals and assure use before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of pesticide, spray mixture, or residue is a violation of Federal law. If these wastes be disposed of according to label instructions, contact your State Pesticide Environmental Control Agency, or the Hazardous Waste Representative nearest EPA regional office for guidance.

CONTAINER DISPOSAL: (METAM SODIUM 42% EUP) Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and (PLASTIC) Triple rinse or equivalent. Puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities by incineration, or if allowed by State and local authorities by burning. If stay out of smoke.

GENERAL INSTRUCTIONS: Before applying this product always thoroughly treat the area to be treated, breaking up clods and loosening soil deeply and thoroughly. A week before treatment, moisture soil after cultivation to the desired depth; if flood irrigate. This step is essential for all methods of use. Immediately application, cultivate lightly if the soil has crusted. See POTATOES section specific directions on the application of METAM SODIUM 42% EUP to potato where no-till stubble or cover crop exist. To prevent loss from evaporation, at times when air temperature is moderate and there is little wind movement temperature must be from 40 to 90 degrees F. in the treated zone. Treated defined as the depth of treatment that METAM SODIUM 42% EUP achieve time of application. For other conditions, see section "CULTIVATION AND FUMIGATION AFTER APPLICATION". Do not apply to soil surface, as in the summer when air temperature is over 90 degrees F. or when low humidity or high winds cause loss of METAM SODIUM 42% EUP before it can be drenched into the soil additional water. If furrows become unpleasant during treatment, apply more to seal the furrows into the soil where they should be confined to achieve the fumigation benefit.

The activity of METAM SODIUM 42% EUP is increased by the use of tarp (paper or plastic) spread loosely over the treated areas and secured to prevent it by wind. Keep covered for a minimum period of 48 hours. Seven days after the cultivate areas to depth of 2 inches to aerate the soil. Do not seed earlier than 2 after application when tilling method is used. Use promptly after mixing with Do not allow solution to stand. Flush equipment with water after each day. Drainage and wash and clean thoroughly.

CALIFORNIA ONLY: (See label for use of this product with Technical Information Bulletin - California, Application Guidelines for California When Applying Metam Sodium (METAM SODIUM 42% EUP). This information bulletin may be obtained from the California Department of Pesticide Regulation.

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in your local pesticide dealer or a Metam Sodium registrant.

PRODUCT INFORMATION

METAM SODIUM 42% EUP 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 SODIUM 42% EUP 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 SODIUM 42% EUP 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, Bermudagrass, Chickweed, Dandelion, Ragweed, Lambert, Lambsquarters, Amaranthus sp. (Pigweed & Careless Weed), Watergrass, Johnson Grass, Nutsedge, Wild Morning-glory and Purslane; Nematodes and Symphylids (Garden Centipedes) and Soil-borne Diseases such as (Rhizoctonia, Pythium, Phytophthora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers).

USE PRECAUTIONS: Keep children and pets out of treated area. Keep off 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 when 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 excessively wet or cold following application, planting may take place 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or remain wet and/or cold (below 60°F.) following application of Metam Sodium an extended interval should be observed. Where dosages are greater than 75 gals. per acre, wait at least 60 days.

On heavy, wet soils, light surface cultivation to break up crusting and promote drying of the soil should be done 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 soils.

SPECIAL INSTRUCTIONS: When treating heavier soils, including soil high in clay or organic matter, it is especially important that the soils be allowed to aerate and dry thoroughly after using METAM SODIUM 42% EUP. During cold and/or wet weather, frequent shallow cultivations may aid the escape of METAM SODIUM 42% EUP 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 then injection shanks 5 inches apart and inject METAM SODIUM 42% EUP 4 inches deep into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling may be used to help prevent gas escape. For field use, 30 to 75 gallons of METAM SODIUM per acre is recommended.

ROTARY TILLER or POWER MULCHER: Spray METAM SODIUM 42% EUP 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 may be used to help 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 SODIUM 42% EUP 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 METAM SODIUM 42% EUP 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 SODIUM 42% EUP into 3 or more equal parts and apply at intervals during the sprinkling period.

CHECK OR FLOOD IRRIGATION: Meter METAM SODIUM 42% EUP 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 SODIUM 42% EUP 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 SODIUM 42% EUP 4 inches deep into well prepared soil. Follow immediately with a roller to seal channel(s). Light watering or a tarp after rolling may be used to help prevent gas escape. Apply at the rate of 37 to 82 fluid ounces /1,000 linear feet of bed per chest (30 to 75 gals./treated acre).

Space shanks 5 inches apart to cover the desired treating width. If METAM SODIUM 42% EUP is injected into established plant beds through plastic strips 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 SODIUM 42% EUP may be sprayed or dripped in a bed wide band onto the soil immediately ahead of bedshaping equipment. Cover the METAM SODIUM 42% EUP 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 SODIUM 42% EUP 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 may be used to help 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 SODIUM 42% EUP must be applied through a drip irrigation system to wet the soil thoroughly in the area being treated. Meter 10 to 56 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 leveled, 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

Fall applications are recommended whenever 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 soil. 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 SODIUM 42% EUP 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 SODIUM 42% EUP 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 wilt; SOIL INJECTION: Apply 30 gals./acre of METAM SODIUM 42% EUP. Follow directions for FIELD APPLICATION WHERE ENTIRE AREA IS TREATED. SPRINKLER SYSTEM PRE-PLANT: Apply 37.5 to 75 gallons of METAM SODIUM 42% EUP /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 90°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 SODIUM 42% EUP MAY be applied where crop stubble or vegetation exist without prior blage, provided there is adequate soil penetration of METAM SODIUM.

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 75 gallons of METAM SODIUM 42% EUP per acre using injector blade or thin shank injector. 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, Symphylid Control and Treatment of Tree Root Diseases. (54-421AM, PM4(EUP-AM)09-23-93)

includes, but is not restricted to, chemigation equipment, shanks, fillers, drop lines, and holding tanks); sampling; clean up of spills; fumigant transfer, and waste 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 5 feet of unshielded, pressurized hoses containing Metam Sodium.

(1). A properly FT 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 or 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 FT 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.

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 42% EUP 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 greenhouse.

DIRECTIONS FOR USE: It is a violation of law to use this product in a manner inconsistent with its labeling. Do not use this product unless the supplemental label on the product label, are followed.

STORAGE

Do not contaminate water, food, or feed with this product. Store in a cool, dry, locked container. Do not store in a container that has been used for food or feed. Product crystallizes at low temperatures and mix to redissolve. PESTICIDE DISPOSAL: Pesticide products, spray mixture, or residue cannot be disposed of according to Federal, State, or Environmental Control Agency nearest EPA regional office for incineration or equivalent. Then off-site disposal of in a sanitary landfill or by incineration. (PLASTIC) Triple sanitary landfill, or by incineration. If burned stay out of fire.

NOTICE: This product conforms to the purpose stated on the label under normal conditions of use. Manufacturers assume no liability for any loss or damage not reasonably foreseeable to the risk of any such use. (54-4)

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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 SODIUM 42% EUP 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 SODIUM 42% EUP 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 8 to 10 inches. Maintain adequate soil moisture during the Spring season to bring symphyliids to the upper soil surface. Treat during July-August when symphyliids are in the upper soil surface. Apply as a broadcast treatment at 15 gallons METAM SODIUM 42% EUP per acre using blade or chisel injectors. Inject below level of Symphyliid 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, 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

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 or overflow of the reservoir tank of at least twice the inside diameter of the fill pipe.

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

The pesticide injection point 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 pesticide injection pump when there is no water pump, when pesticide distribution is adversely affected. Systems must use a metering pump (e.g. diaphragm pump) effective with pesticides and not apply when wind speed favors drift.

SPRINKLER

Use only those sprinkler systems that do not cause excessive loss. Use 56.25 to 75 gallons per acre for control of shallow pests (top 1 to 2 inches) and 10 to 20 inches inject into soil needed for the area covered. Control of pests in 2 or 3 days. For control of pests in 3 or 4 days use 15 gallons per acre. SPRINKLING PERIOD

STATEMENTS CONCERNING CHEMIGATION OF METAM SODIUM APPROVED SYSTEM AND PEST

The system must contain a functional pressure drain appropriately located to prevent contamination from backflow. The system must contain a functional, automatic, quick-closing check valve on the intake side of the injection pump. The pesticide injection pump must be normally closed, solenoid-operated 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 pesticide injection pump when there is no water pump, when pesticide distribution is adversely affected. Systems must use a metering pump (e.g. diaphragm pump) effective with pesticides and not apply when wind speed favors drift.

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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. (54-421SP, PM4 / EUP-AMD(08-24-93)

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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, 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 or spouts to prevent excessive loss. Use 56.25 to 75 gallons of METAM SODIUM 42% EUP 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 SODIUM 42% EUP 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 SODIUM 42% EUP 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 injection 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 injection 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 injection line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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Refer to Labeling Affixed to Product for Complete Directions for Use
A SOIL FUMIGANT SOLUTION FOR ALL CROPS
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, Lambsquarters,
Amaranthus sp., Watergrass, Johnson Grass, Nutgrass,
Wild Morning-glory and Purslane.
Nematodes and Symphyliids
Soil-Borne disease such as Rhizoctonia, Pythium, Phytophthora,
Verticillium, Sclerotinia, Oak Root Fungus
and Club Root of Crucifers.

ACTIVE INGREDIENT: Sodium methyldithiocarbamate(anhydrous)- 42%
INERT INGREDIENTS: - - - - - 58%
TOTAL 100%

EPA REG. NO. 5481-421 EPA EST. NO. 5481-CA-1
Contains 4.26 lbs. Active ingredient METAM SODIUM per gallon

AMVAC CHEMICAL CORPORATION
4100 EAST WASHINGTON BLVD.
LOS ANGELES, CA 90023 - U.S.A.

ACCEPTED
with COMMENTS
May 6, 1994
Is EPA Letter Dated
the Federal Insecticide,
Fungicide, and Rodenticide Act
for the pesticide
No. 5481-421-449

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.

STATEMENTS CONCERNING FLOOD (BASIN), FURROW AND BORDER CHEMIGATION

Systems using a gravityflow 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 bar 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.

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 traducida a su idioma.
FOR STATEMENT OF PRACTICAL TREATMENT
SEE LABEL AFFIXED TO PRODUCT

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 and pets out of treated areas until treatment is complete 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 42% EUP including mixing-loading, equipment calibrations or adjustments, clean up and repair of application equipment (equipment

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