



# METAM SODIUM

Refer to Supplemental PRODUCT USE & CHEMIGATION BOOKLET for Additional Instructions  
**A SOIL FUMIGANT SOLUTION FOR ALL CROPS  
MAY BE APPLIED BY SPRINKLER, HOSE PROPORTIONER,**

**SOIL INJECTION OR CHEMIGATION  
FOR CONTROL OF SOIL BORNE PESTS THAT ATTACK  
ORNAMENTALS, FOOD AND FIBER CROPS**

**Controls Weed** such as Annual Bluegrass, Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambquarter, Amaranthus, sp. Watergrass, Johnson Grass, Nutgrass, Wild Morningglory and Purslane

**Nematodes and Symphyids**

**Controls Borne disease** such as Rhizoctonia, Pythium, Phytothphora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers

**ACTIVE INGREDIENT** Sodium methylthiocarbamate(anhydrous) 32.7%  
**INERT INGREDIENTS** 67.3%

TOTAL 100.0%

Contains 3.8 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 le etiqueta haya sido especi-cado en español.

### 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 SKIN:** Immediately flush skin with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. **IF IN EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eye lids apart to ensure rinsing of the entire surface of 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 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.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5481-33C

NET CONTENTS 1 GALLON

EPA EST. NO. 5481-CA 1

### PRECAUTIONARY STATEMENT

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Warning:** Harmful if inhaled or swallowed, irritating to eyes, nose, throat and skin. Avoid breathing vapors that may rise. Do not get in eyes, on skin, or clothing. Causes skin irritation. May be fatal if absorbed through skin. In case of contact, immediately remove contaminated clothing. Wash and dry clothing before reuse. When applying in enclosed areas, wear a mask or respirator of a type passed by MSHA or NIOSH protection against METAM SODIUM. Keep children and pets out of treated areas until treatment is completed and pesticide has dissipated.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning equipment or when disposing of equipment washwaters with this product only as specified on this label.

**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 with any irrigation system unless the supplemental labeling in this BOOKLET is followed.

**REENTRY AND WORKER SAFETY STATEMENT:** Do not apply this product in such a manner as to directly reach or expose workers or other persons. The area being treated must be vacated by unoccupied areas. Do not enter treated areas without protective clothing until sprays have dried. Because certain uses may require more restrictive re-entry intervals for various soils treated with this product, consult your State Department of Agriculture for further information. (Continued on Side Panel)

### REENTRY AND WORKER SAFETY STATEMENT (Continued)

Written or oral warnings 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 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 until sprays have dried. In case of accidental exposure see STATEMENTS OF PRACTICAL TREATMENT found on the METAM SODIUM product label.

### 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. **DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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, loosen 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.

To prevent loss from evaporation, use only at times when air temperature is moderate and there is little wind movement. Soil temperatures must be in the range of 60°F to 80°F at a 3 inch depth. For other conditions see section CULTIVATION & PLANTING AFTER APPLICATION. Do not apply to the soil surface as in the sprinker method, when air temperature is over 80°F or when low humidity or high winds would cause loss of METAM SODIUM 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 fumigant benefit.

The activity of METAM SODIUM 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 SODIUM is a water soluble liquid. When applied to a properly prepared soil, the liquid is converted to a gas. After sufficient interval of time, the gas dissipates leaving the soil ready for planting. METAM SODIUM is recommended for the control of the following soilborne pests that attack ornamentals, food and fiber crops: Weeds and germinating seeds, Annual Bluegrass, Bermudagrass, Chickweed, Dandelion, Ragweed, Henbit, Lambquarter, Amaranthus sp. (Pigweed & Canada Weeds), Watergrass, Johnson Grass, Nutgrass, Wild Morningglory and Purslane; Nematodes and Symphyids (Garden Centipedes) and Soil Borne Diseases such as Rhizoctonia, Pythium, Phytothphora, 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 without adequate ventilation OR when fumes may enter nearby houses containing

growing plants. Do not use in greenhouses where desirable plants are present. Keep container tightly closed when not in use. Do not store near feed or food.

### CULTIVATION AND PLANTING AFTER APPLICATION

In well drained soils of light to medium texture which are not excessively wet or cold, planting may follow within 14 to 21 days after treatment. If soils are heavy or especially high in organic matter or remain wet and cool (below 60°F) following application, a minimum interval of 30 days should be observed. Where coverages are greater than 100 gal. per acre wait at least 60 days. On heavy, wet soils, light surface cultivation to break up crusting and promote drying of the soil should be done 5 to 7 days after application. This cultivation may be repeated as necessary. To avoid re-fumigating treated soils, cultural practices should be such that untreated soils are not mixed with treated soils.

**SPECIAL INSTRUCTIONS:** When treating potting soil, or heavier field soils, including soil high in clay or organic matter, it is essentially important that the soil be allowed to aerate and dry thoroughly after using METAM SODIUM. During cold and or wet weather, frequent shallow cultivations may aid the escape of METAM SODIUM from the soil. If in doubt transplant a seedling plant and examine for injury before planting crop. **USES, APPLICATION METHODS AND RATES FOR SHALLOW PESTS IN BEDS, PLANT BEDS, LAWNS AND OTHER LIMITED AREAS:** **SPRINKLER METHOD:** Place 1 pt. METAM SODIUM (1 1/2 pt on very heavy soils or for deep rooted weeds) in a sprinkling can, fill with water and sprinkle uniformly over 50 sq. ft. of well prepared soil. Sprinkle immediately with water until soil is sealed or tarp for 48 hours.

**HOSE PROPORTIONER METHOD:** Add 1 qt. to 3 quarts of water in a bucket or other container and apply using a hose proportioner to an area of 100 sq. ft. Sprinkle with water until soil is sealed or tarp for 48 hours. **SOIL INJECTION:** Space injection shanks 5 inches apart and inject METAM SODIUM into well prepared soil. Follow immediately with a roller to smooth and compact the soil surface. Light watering or a tarp after rolling helps to prevent gas escape. For seedbeds a dosage of 75 to 100 gallons per acre (1 1/2 to 2 pts. per sq. ft.) is recommended.

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

**FIELD APPLICATION - WHERE ENTIRE AREA IS BEING TREATED:** **SOIL INJECTION:** Space thin injection shanks 5 inches apart and inject METAM SODIUM 4 inches deep into well prepared soil. Follow immediately with a roller to smooth and compact surface. Light watering or a tarp after rolling helps to prevent gas escape. For field use, 40 to 100 gallons of METAM SODIUM are recommended.

**SPRINKLER SYSTEM:** Use only those sprinker systems which give large water droplets to prevent excessive loss. Use 75 to 100 gal. METAM SODIUM per acre. For control of shallow pests (top 1 ft. or less of soil), run sprinklers 5 to 10 minutes. In next 10 to 20 minutes inject all METAM SODIUM 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 into 3 or more equal parts and apply at intervals during the sprinkling period.

**CHECK OR FLOOD IRRIGATION:** Meter METAM SODIUM at a steady rate into water during irrigation. Use 50 to 100 gal. per acre depending upon the kind of pest and depth desired, 3 to 18 inches of water per acre.

### FIELD APPLICATION TO BEDS OR ROWS

**SOIL INJECTIONS:** METAM SODIUM 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 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 46.2 to 122.8 fluid ounces per 1,000 linear feet of bed per chisel (40 to 100 gal. per treated area). Space shanks 5 inches apart to cover the desired treating width. **SOIL COVERING METHOD (Bed-over method):** METAM SODIUM may be sprayed or dropped in a bed wide band onto the soil immediately ahead of seedshaping equipment. Cover the METAM SODIUM with soil to a depth of 1 to 2 inches. The soil should be rolled and compacted immediately. Apply at the rate of 50 to 100 gallons per acre of treated soil or 14.7 to 29.4 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 area.

### METHOD OF DETERMINING FLUID OUNCES/100 FEET OF LINEAR ROW

1) Determine width of bed in feet by dividing the 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 gal. = 6400 fl. oz., 100 gal. = 12,800 fl. oz.  
b) multiply fluid ounces by acres. Example: 50 gal. = 6400 fl. oz. x 0.0015 = 9.6 fl. oz. per 100 linear feet row.

### TREATMENT OF THE REPLANT BITES

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 1 qt. METAM SODIUM per 100 sq. ft. in sufficient water (depending on soil type) to penetrate to least 6 ft. For control of Oak Root Fungus use a basin at least 20-20 ft. square. Increase dosage to 2 qt. per 100 sq. ft. in sufficient water to penetrate to the depth of root system. If water is tanked to the planting site, add METAM SODIUM to the water and mix before filling basin.

### STEPS TO FOLLOW WHEN TREATING POTTING SOIL

**A. SPRINKLER METHOD:** 1. Spread soil in a smooth layer 4 inches high or concrete or on driftless soil.  
2. Sprinkle METAM SODIUM at the rate of 1 pint in 5 gallons of water per 100 sq. ft. of surface area.  
3. Layers can be treated one on top of another.  
4. Sprinkle top layer with sufficient additional water to seal the surface, or cover with tarp (plastic, kraft paper, etc.).  
**B. CEMENT MIXER:** 1. Add METAM SODIUM to soil mix at rate of 1 lb. oz. per cu. ft. of soil in cement or similar mixer. Mix thoroughly.  
2. After soil is treated and piced, sprinkle water over entire surface to seal in gas. OR cover with tarp (plastic, kraft paper, etc.).  
**C. SHREDDER:** 1. Divide METAM SODIUM in sufficient water to obtain even distribution. As soil is ejected from shredder, spray uniformly on soil stream at rate of 1 lb. oz. per 2 Cu. Ft. soil.  
2. After soil is released and piced, apply light water seal to entire surface or cover with tarp.

### TOBACCO PLANT BEDS

Fall applications are recommended whenever possible. Seed and follow directions carefully. Treatment in the south should generally be made before November 30. 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 till. Cover the bed immediately after treatment with plastic cover. Keep covered no less than one day but no more than ten days. The cover need not be limited 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 1 to 1 1/2 gallons of METAM SODIUM in a minimum of 40 gallons of water per 100 sq. yds. Apply uniformly over the entire bed.  
**FOR GENERAL DIRECTIONS:** given above.  
**B. DRENCH METHOD:** Apply 2 1/2 gallons of METAM SODIUM 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 DIRECTIONS given above.

### 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 symphyllids to the upper soil surface. Treat during July, August when symphyllids are in the upper soil surface. Apply as a broadcast treatment at 20 gallons METAM SODIUM per acre using blade or chisel injectors. Inject below level of Symphyllid concentration, usually 8 to 8 inches. Pack soil with a roller immediately after application.

### POTATOES

For suppression of potato pests such as Nematodes, Weed Seeds and Verticillium Dahlen, **SOIL INJECTION:** Apply 40 gallons per acre of METAM SODIUM. Follow directions for FIELD APPLICATION WHERE ENTIRE AREA IS TREATED.

**SPRINKLER SYSTEM PRE-PLANT:** Apply 50 to 100 gallons of METAM SODIUM per acre. Inject into a sprinker 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. Do not apply when plants are present.

### PEPPERBUNT

Verticillium WR. When infestations are limited to small spots in a field, spread 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. See Supplemental BOOKLET for more.

06-25-88

**AMVAC CHEMICAL CORPORATION**  
4100 East Washington Blvd - Los Angeles, CA 90023

**BEST AVAILABLE COPY**

**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. **IF ON SKIN:** Immediately flush skin with large amounts of running water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. **IF IN EYES:** Immediately flush eyes with large amounts of water for at least 15 minutes. Hold eye lids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately. **IF INHALED:** Remove to fresh air. If not breathing, clear the victim's airway and start mouth to mouth artificial respiration. If breathing is difficult, give 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 comatose person.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS  
EPA REG. NO. 47056-UA NET CONTENTS 1 GALLON EPA EST. NO. 5481-CA-1

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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** Use only those sprinkler systems which give large water droplets to prevent excessive loss. Use 75 to 100 gallons of METAM SODIUM 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 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 in 3 or more equal parts and apply at intervals during the sprinkling period.

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#### REENTRY AND WORKER SAFETY STATEMENT (Continued)

Written or oral warnings 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 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 with-out appropriate protective clothing until sprays have dried. In case of accidental exposure see STATEMENTS OF PRACTICAL TREATMENT found on the METAM SODIUM product label.

#### 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 reuse uniformly before use. **PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or residue 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.

09-25-88

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result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other expert. 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 production or distribution of piped water for human consumption if such system has at least 15 connections or regularly serves an average of at least 25 individuals daily at least 60 days 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.

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**STATEMENTS CONCERNING THE OPERATION OF SPRINKLER CHEMIGATION OR 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 motor pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to a 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.

**STATEMENTS CONCERNING FLOOD (BASIN), FURROW AND BORDER CHEMIGATION** Systems using 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 treating.

**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.

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## METAM SODIUM

### PRODUCT USE & CHEMIGATION BOOKLET

Refer to Labeling Affixed to Product for Complete Directions for Use  
**A SOIL FUMIGANT SOLUTION FOR ALL CROPS  
MAY BE APPLIED BY SPRINKLER, HOSE PROPORTIONER,  
SOIL INJECTION OR CHEMIGATION  
FOR CONTROL OF SOIL BORNE PESTS THAT  
ATTACK**

#### ORNAMENTALS, FOOD AND FIBER CROPS

Controls Weed such as Annual Bluegrass, Barnyardgrass, Chickweed, Dandelion, Ragweed, Henbit, Lambsquarters, Amaranthus, sp. Watergrass, Johnson Grass, Nutgrass, Wild Morningglory and Purslane.

Nematodes and Symphylids

Soil Borne disease such as Rhizoctonia, Pythium, Phytothphora, Verticillium, Sclerotinia, Oak Root Fungus and Club Root of Crucifers.

**ACTIVE INGREDIENT:** Sodium methylthiocarbamate (anhydrous)

**32.7% INERT INGREDIENTS: 67.3% TOTAL 100.0%**

Contains 3.8 lbs. Active Ingredient METAM SODIUM per gallon

**AMVAC CHEMICAL CORPORATION**

4100 EAST WASHINGTON BLVD. - LOS ANGELES, CA 90022

#### PREVENTION OF ROOT GRAFT TRANSMISSION OF DUTCH ELM AND OAK WILT DISEASES.

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

Use METAM SODIUM diluted one part to three parts water for Dutch Elm disease and diluted one part to ten parts of water for Oak Wilt disease. Drill holes approximately 3/4 to 1 inch in diameter, 15 inches deep to 8 to 8 inches apart. Fill each hole with diluted METAM SODIUM to within 2 inches of the solution surface.

Make the line of treatment sufficiently long to kill all roots of the two adjacent trees that are likely to root-graft. Apply the chemical slowly and carefully to avoid overflowing the drilled holes. This will reduce grass kill. Tamp each hole closed with the heel. Diseased tree must be removed but live at least two weeks after treatment before removing.

**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.

#### 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. When applying in enclosed areas, wear a mask or respirator of a type passed by MSHA or NIOSH for protection against METAM SODIUM. Keep children and pets out of treated areas until treatment is completed and pesticide has dissipated.

##### ENVIRONMENTAL HAZARD

This product is toxic to fish. Do not apply directly to water or wetlands. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning equipment or when disposing of equipment washwaters. Apply this product only as specified on this label.

**DIRECTIONS FOR USE** It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Refer to Supplemental Labeling Booklet for use directions for Chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

**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 without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information. (Continued on Page 3)

**ACCEPTED**

DEC 21 1933

Under the Federal Insecticide, Fungicide, and  
Plant Disease Act, as amended, for the  
purpose of registration under  
Section 5081 350

RECEIVED  
DEC 21 1933  
U.S. DEPT. OF AGRICULTURE  
WASHINGTON, D. C.