



# VAPAM

SOIL FUMIGANT SOLUTION  
FOR FUMIGATING GARDEN SOILS BEFORE PLANTING

ACCEPTED  
with COMMENTS  
to EPA Letter Dated:

OCT 14 1982

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

2169-27

ACTIVE INGREDIENT:		
Sodium methyl dithiocarbamate (anhydrous)...	32.7%	
INERT INGREDIENTS:	67.3%	
	Total	100.0%

VAPAM<sup>®</sup> Reg. T.M. Stauffer Chemical Co.  
U.S. Pat. Nos. 2,766,554; 2,791,605  
KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 2169-

EPA Est. No. 2169-KS-1

STATEMENTS OF PRACTICAL TREATMENT

- If Swallowed: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Never give anything by mouth to an unconscious person.
- If In Eyes: Flush with plenty of water. Get medical attention.
- If On Skin: Remove contaminated clothing or shoes and flush skin with plenty of water. Get medical attention.
- If Inhaled: Remove victim to fresh air. Apply artificial respiration if indicated. Call a physician immediately.

Net Contents \_\_\_\_\_ [1 Pint; 1 Quart; 1 Gallon]

Hatterson Green-Up Company  
Div. Curry Cartwright, Inc.  
1331 Union Avenue Box 4029  
Kansas City, MO - - 64101

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## PRODUCT INFORMATION

VAPAM is an easy-to-use water solution of a highly effective soil fumigant. It can be used prior to planting a lawn or when preparing a new flower bed or vegetable garden, as an aid in the control of weeds, certain nematodes which attack plants, and common soil-inhabiting plant disease fungi.

When properly applied, VAPAM releases a gaseous fumigant in the soil. This gas later dissipates, leaving the soil ready for planting.

## USE PRECAUTIONS:

KEEP OUT DESIRABLE LAWNS AND PLANTS. VAPAM may severely injure any plant that it comes in contact with therefore you should read these use precautions carefully. Do not apply within 3 feet of the drip line of plants, shrubs or trees. Do not use in confined areas without adequate ventilation. Do not use in greenhouses where growing plants are present or where fumes may enter nearby houses containing growing plants. After mixing with water, do not allow solution to stand overnight. If fumes from partially treated and water sealed area become unpleasant, sprinkle more water over treated area. RINSE ALL EQUIPMENT WITH WATER AFTER EACH DAY'S USE. Keep children and pets out of treated area. Do not store near food. Keep container tightly closed when not in use. Do not store below 0°F.

FOR TREATING SEED BEDS, PLANT BEDS, RENOVATING LAWNS, ESTABLISHING NEW LAWNS, FUMIGATING POTTING SOIL.

## BEFORE APPLYING VAPAM

A week before applying VAPAM, cultivate the area to be treated, breaking up clods and loosening the soil deeply and thoroughly. Keep soil moist and bring area to final grade and seedbed condition. THIS STEP IS ESSENTIAL TO GOOD RESULTS.

## APPLICATIONS METHODS AND RATES

SPRINKLING CAN: Place 1 pint VAPAM (1/2 pints on very heavy soils or for deep-rooted weeds) in a sprinkling can, fill with water, stir, and sprinkle uniformly over 50 square feet of well-prepared soil. Sprinkle immediately with water until soil is sealed and no odor of VAPAM can be detected.

HOSE-END SPRAYERS (lawn or fertilizer type): Fill container with 1 pint of VAPAM and spray uniformly on 50 square feet of well-prepared soil. Continue to spray with water until VAPAM odor cannot be detected.

BEST DOCUMENT AVAILABLE

## DIRECTIONS FOR USE (cont.)

**AFTER APPLYING VAPAM**

VAPAM should be sealed into the soil by sprinkling after application, wetting the soil to a depth of 3-5 inches. Sprinkle lightly so water doesn't puddle. KEEP SOIL SURFACE WET FOR 2-3 DAYS AFTER APPLICATION - THEN LET DRY OUT.

The use of a plastic tarp or other covering over the treated area greatly improves the action of VAPAM. When using a cover, do not wait until the entire area is treated to begin covering but cover each 100 square feet as it is treated, immediately. Weight the tarp around edges to prevent wind from lifting. Keep covered for two days and then remove. Seven days after applying VAPAM rake the treated area. Do not rake deeper than 2 inches. If weather is warm and dry, plant after 2 weeks. If weather is cold and wet, rake the soil frequently and do not plant for 4 weeks.

**FUMIGATING POTTING SOIL**

TREAT YOUR SOIL IN WHEELBARROW OR GARBAGE CAN:

Put a 4-inch layer of soil mix in the container and sprinkle surface evenly following the table below. Add another 4-inch layer and repeat sprinkling. Repeat until container is full. Cover with plastic or container lid for 48 hours.

**AMOUNT OF VAPAM TO USE FOR EACH 4 INCHES OF SOIL**

DIAMETER OF CAN	TEASPOONS OF VAPAM	WATER
10"	1/2 tsp.	4 ozs. (1/2 pint)
12"	3/4 tsp.	6 ozs.
15"	1-1/4 tsp.	10 ozs.
20"	2-1/4 tsp.	18 ozs.

Mix the VAPAM with the water then sprinkle the soil. For larger areas of pottling soil, use VAPAM at rate of 1 teaspoonful in 8 ozs. (1/2 pt.) pint) of water per square foot. After 5-7 days the treated soil should be shredded or turned or mixed to aerate and help release any VAPAM still in the soil.

The treated soil mixture should then be left for 14 more days before it is put into storage sheds or bins.

NOTE: It is very important that the VAPAM treated soil is thoroughly aerated and dry before being used.

**IMPORTANT INFORMATION**

If the soils have remained wet or cold (below 60°F at 3" level) do not plant for 4 weeks or longer and aerate soils again to speed release of gases.

BEST DOCUMENT AVAILABLE

No crop should be planted until all odor has left the soil. As an added precaution, 10 days after application, plant a few radish seeds which should germinate in about 5 days. If plants are normal, the treated area is safe to plant.

**DO:**

1. Read the label and follow all manufacturer's directions.
2. Use only when ground temperature 3 inches deep is over 60°F and less than 90°F. In the colder parts of the country, the soil is usually warm enough when the spring flowering shrubs such as forsythia are blooming.
3. VAPAM can be irritating to the skin. We recommend using rubber gloves and rubber boots when applying VAPAM.
4. If VAPAM is splashed on body, wash immediately, apply soothing ointment and remove contaminated clothing.
5. Clean equipment by rinsing thoroughly in running water.

**DO NOT:**

1. Do not use VAPAM unless you are prepared to follow all directions completely.
2. Do not apply in greenhouses where desirable plants are growing or in greenhouses connected to other areas where such plants are growing. Fumes from treated soil can injure growing plants.
3. Do not apply indoors without adequate ventilation.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**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. In case of contact, immediately remove contaminated clothing or shoes and flush skin with plenty of water. Apply soothing lotion. For eyes, flush with water for at least 15 minutes and get medical attention. Wash and dry clothing and shoes before re-use. When applying in enclosed areas, wear a mask or respirator of a type jointly approved by the Mining Enforcement and Safety Administration and the National Institute for Occupational Safety and Health under the provision of 30 CFR Part 11.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not contaminate water by cleaning or disposal of wastes. Apply this product only as specified on this label.

**STORAGE & DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**CONTAINER DISPOSAL:**

Do not re-use this container. Rinse empty container thoroughly, wrap and place in trash collection.

**NOTE:** Buyer assumes all risk and liability for use, storage and/or handling of this product not in accordance with the terms of this label.

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EAST DOCUMENT CENTER

2169-317

OCT 14 1982

Vapan Soil Fumigant Solution

Patterson Green-Up Company  
Division Curry Cartwright, Inc.  
1331 Union Avenue  
Kansas City, MO 64101

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

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 2169-317" to your label before you release the product for shipment.
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

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

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

Henry H. Jacoby  
Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (23-767)

Enclosures