

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER  **POISON**

POISONOUS LIQUID AND VAPOR UNDER PRESSURE. INHALATION MAY BE FATAL OR CAUSE DELAYED LUNG INJURY. LIQUID AND VAPOR CAUSE BURNS WHICH MAY BE DELAYED.

Do not breathe vapor. Use only with adequate ventilation, or with proper respiratory protection (a full-face canister, self-contained or air-supplied respirator approved by NIOSH).

Avoid contact with eyes, skin, and clothing. In general, it is recommended that the minimum clothing practical be worn when working with this material. Rubber or leather protective wear, including gloves, should not be worn. Do not allow re-use of clothing or shoes contaminated with liquid chloropicrin until free of fumigant, for shoes, aerate for at least one week.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Keep out of lakes, ponds, or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL HAZARDS: Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

CHEMICAL HAZARDS: Do not use containers made of aluminum, magnesium or their alloys.

DIRECTIONS FOR USE

Use in violation of Federal law to use this product in a manner inconsistent with its labeling FOR USE BY PEST CONTROL OPERATORS/OTHER TRAINED PERSONNEL

STORAGE AND DISPOSAL

STORAGE: Store in a cool, dry, ventilated place — away from dwellings. It is recommended that the storage site be isolated from locations where foods, food grade materials, drugs, seeds, and feed stuffs are stored. Do not remove protective caps until cylinder is in position for connections to be made.

HANDLING SPILLS AND LEAKING CYLINDERS: Only experienced individuals using proper personal protective devices including a self-contained breathing apparatus in pressure demand mode should attempt to enter an area in which this product is leaking. Inspect valve and safety caps to determine if they are leaking; if so, tighten. Should the leaking continue, consider burying the cylinder at least 30 inches deep in a safe place and sealing the soil surface with water. Spills may be allowed to evaporate, however, due to the high percentage of chloropicrin (boiling point 100°F) in this product this may take some time. Absorption on a suitable media and burying the waste at least 30 inches in a safe place and sealing the soil surface with water is suggested. Petroleum solvents have been found to be of value in the clean-up process. Contact the supplier for assistance before proceeding further.

DISPOSAL: Empty cylinders, close valve clockwise, or to the right, hand tight. Disconnect lines and replace both the small and large protective caps. Return empty cylinders to manufacturer by following instructions on POISON Shipping tag attached to cylinder. Cylinders containing product should be returned only after contacting manufacturer for proper shipping instructions.

NOTICE TO BUYER/USER: State and/or local laws and regulations restrict the use of the material in many localities. Consult local pesticide authorities for regulations restricting your proposed usage. Comply with laws and regulations.

See attached shipping tag for specific use directions and precautions.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THIS MATERIAL OR THE USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES ALL RISK OF USE AND OR HANDLING OF THIS MATERIAL WHEN SUCH USE OR HANDLING IS CONTRARY TO LABEL INSTRUCTIONS.

RESTRICTED USE PESTICIDE

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION



NAMCO

PATHOFUME® 8

For use as a pre-plant soil treatment

ACTIVE INGREDIENTS: Methyl Bromide
Chloropicrin

87%
33%

KEEP OUT OF REACH OF CHILDREN

DANGER  **POISON**

STATEMENT OF PRACTICAL TREATMENT

SEEK IMMEDIATE MEDICAL ASSISTANCE IN CASE OF POISONING

If Inhaled: Carry patient to fresh air. Get medical assistance at once. Make sure patient can breathe freely. Keep patient warm and quiet. Give artificial respiration if breathing has stopped. Oxygen should be administered only by qualified personnel. **In case of contact:** For skin, immediately remove all contaminated skin coverings including shoes, clothing, personal articles and adhesive or other bandages. Wash skin thoroughly with soap and running water. If irritation or blisters develop get medical attention. For eyes, flush thoroughly with plenty of water for at least 15 minutes and seek immediate medical attention. **Note to Physician:** Keep patient at rest and under observation for 24 to 48 hours. Secondary infection of burns (blisters) are common.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



Manufactured By
Van Waters & Rogers
division of Univar

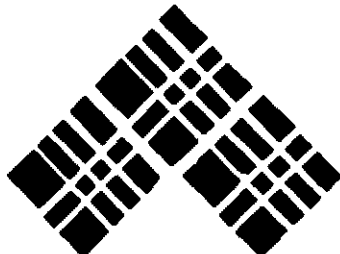
San Mateo, CA 94403

EPA Est. 550-CA-01

(EPA Reg. No. 550-117-AA)

BEST AVAILABLE COPY

ACCEPTED
NOV 2 1981
Under Federal Insecticide,
Fungicide and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 330-117



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NAMCO®

PATHOFUME[®] B

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DANGER  **POISON**

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Manufactured By
Van Waters & Corp.

DANGER POISON

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Manufactured By

Van Waters & Rogers
division of **Univar**

San Mateo, CA 94403

(EPA Reg No 550-117-AA)

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(CONTINUED ON REVERSE SIDE)

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GENERAL PRECAUTIONS

Fumigated areas must be placarded on all entrances with signs containing at least the signal word "DANGER" and the Skull & Crossbones and the words "Area under fumigation do not enter until completely aerated" the date of fumigation, name of the fumigant used, emergency telephone number for contact, and the name and address of the fumigator. Do not remove warning signs until the fumigated area is completely aerated and safe for entry as indicated by a suitable detector.

FUMIGATION OF SOIL USING TRACTOR DRAWN EQUIPMENT

Treated and may be planted: Citrus, cereals and other common agricultural crops, grasses, and other vegetation, if the crops which will transpire and grow to maturity are not treated.

Soil Preparation: Final state of soil preparation should be working in the soil to a depth of 12 inches before treating. Soil must be in good workable condition and soil warm, preferably 50° F. or above, and depth of the soil treated if the soil temperature is below 41° F. at the bottom.

Irrigation requirement: Land to be fumigated should be well irrigated prior to fumigation. The soil will be moist and bed condition just prior to treatment. This is important for a uniform depth of fumigation.

Application: Apply the product by means of a tractor drawn applicator. The applicator should be 14 to 18 inches below the soil surface. Seal the fumigant into the soil by the application of a 1/2 inch thick tarpaulin or polyethylene film. Use a 1/2 inch thick polyethylene film or an automatic tarpaulin that lays at once and packs immediately upon being closed. Cover with a light weight tarpaulin within 30 minutes. Remove the tarpaulin after 48 hours. Allow the soil to aerate for 10 days before planting. **NOTE:** To avoid possible high residue accumulation periods, do not allow weeds, when they grow, to mature and tomatoes for crop production are not to be planted for 30 days after fumigation. Do not plant other crops to be used for eye irritation upon close examination.

Cylinders containing this material have adequate provisions for the product to be used in winter. It may be necessary to supplement this with additional dry nitrogen during application in winter weather conditions.

Dosage: Use 250-350 pounds of this product per acre depending on soil conditions. In the higher ranges should be used in areas with a high moisture content and fertility. Lower rates should be used in heavy soils.

Planting Area

Seed or transplant beds and transplants:
 Ornamental plants
 Forest shade and fruit trees
 Strawberries and raspberries

Field plants of agricultural crops:
 Tomatoes and strawberries

Permanent and field plantings:
 Ornamental plants and fruit

Pounds of Fumigant
 Per Acre

250-350

USE PRECAUTIONS

Every grower should use methyl bromide and/or chloropicrin containing fumigants on a small scale under his growing conditions for at least a full growing season before extensive use on any crop. These materials have given excellent results with a wide variety of soils and plants, however, for plants not clearly understood, plant growth has occasionally been unsatisfactory following treatment. For example, some difficulty has been experienced with conifers, salvia, snapdragons, carnations, multiflora roses, holly, as well as certain other plants. The following precautions must be observed if good results are to be expected:

1. Fumigation with methyl bromide and/or chloropicrin fumigants sometimes slows down the rate of nitrification (the conversion to nitrates from ammonia by bacterial action). Certain ammonia sensitive plants, such as tomatoes, may suffer growth inhibition or stand reduction when planted in fumigated soils containing high amounts of ammonia nitrogen. To lessen this hazard at least 1/2 and preferably all of the nitrogen fertilizer added immediately before or soon after fumigation should be in the form of nitrate nitrogen. This hazard may also be reduced by delaying planting until several months after fumigation. If a nitrate form of nitrogen such as sodium or calcium nitrate is not readily available, ammonium nitrate used sparingly will supply the nitrogen needed without risk. Phosphorous, potassium and other plant nutrients should be used according to soil needs.

2. Application should be made several months prior to planting in soils high in organic matter such as muck, compost, heavily manured soils, since they seem more likely to undergo some change (possible effect on microorganisms) resulting in poor growth.

3. Do not treat very cold (below 50° F.) very wet or dry soils.

4. Be sure treated plots are free from gas before planting seed or setting out plants, if there is doubt as to complete aeration, working the soil after treatment will aid, particularly when the soil is cool and/or wet.

5. Do not contaminate fumigated areas by walking from unfumigated soil. Clean shoes shows the necessity, if this is necessary, if the treated bed is in a location where flooding or washing is possible after rains, place a frame or make a trench around the treated area for proper drainage. Wooden frames around the beds are also satisfactory for preventing this type of contamination.

6. Hay or straw treated directly or harvested from treated soils, not to be fed to any animal.

7. Undesirable concentrations of chlorine or following soil fumigation with this material may be in nearby areas, if this occurs immediately cover treated area with a plastic tarpaulin. The tarpaulins should remain in place overnight and be removed during the daytime. If the escaping vapors reach an undesirable concentration, as indicated by eye irritation, the treated areas should be recovered. Since air movement assists the dilution of the escaping fumes, it is most likely that undesirable concentrations will build up during evening or nights when the air is still. Application of this material should not be made after there is little or no air movement or when there is an inversion.

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