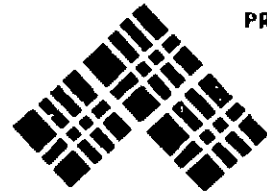


RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY

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**.



PRECAUTIONAL USUARIO: Si usted no lee Ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

NAMCO®

Trifume

For use as a pre-plant soil fumigant. Use in structures is limited to soil treatment in greenhouses.

ACTIVE INGREDIENTS: Methyl bromide 43%
Chloropicrin 57%
This product weighs 14.2 pounds per gallon.

KEEP OUT OF REACH OF CHILDREN, IRRESPONSIBLE PERSONS AND PETS

DANGER



POISON



PELIGRO

In all cases of over-exposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove exposed person from contaminated area. Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration. Do not give anything by mouth to an unconscious person. If not unconscious, give mouth-to-mouth with water.

IF ON SKIN: Immediately remove contaminated clothing, shoes, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

IF IN EYES: Hold eyes closed and flush with a steady, gentle stream of water for at least 15 minutes.

NOTE TO PHYSICIAN: Early symptoms of over-exposure are dizziness, headache, nausea and vomiting, weakness and collapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities; these effects are the usual cause of death. Repeated over-exposures can result in blurred vision, staggering gait and mental imbalance, with probable recovery after a period of no exposure. Blood bromide levels suggest the occurrence, but not the degree of exposure. Treatment is symptomatic. See the product MSDS for additional information.

Formulated by

Van Waters & Rogers Inc.
subsidiary of UNIVAR

Seattle, WA 98104

EPA Reg. No. 550-116
EPA Est. No. 550-CA-1



GROSS WT

TARE WT

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

Extremely hazardous liquid and vapor under pressure. Do not breathe vapor. Inhalation may be fatal or cause serious acute illness or delayed lung, nerve or brain injury. Liquid or vapor can cause serious skin or eye injury, which may have a delayed onset. Do not get liquid on skin, in eyes or on clothing.

This product contains chloropicrin which may be irritating to the upper respiratory tract, and cause painful irritation to the eyes, producing watering. If these symptoms occur, leave the fumigation area immediately.

RESPIRATORY PROTECTION: Under normal conditions of use, no respiratory protection will be required. However, the following information regarding respiratory protection should be known. If the concentration of methyl bromide and chloropicrin in the worker area, as measured by a pump and the appropriate detector tubes (for example, Dräger, Kitagawa, MSA, and Sensidyne), does not exceed 5 ppm (20 mg/M³) for methyl bromide or 0.1 ppm (0.7 mg/M³) for chloropicrin, no respiratory protection is required. If these concentrations are exceeded at any time, or the concentration is unknown, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air supplied/SCBA respirator or evacuate the area. Protective clothing is required to be worn any time respiratory protection is required. Because there is always a possibility of a spill or leak, the SPILL AND LEAK PROCEDURES under STORAGE, HANDLING, AND DISPOSAL must be understood and followed.

PROTECTIVE CLOTHING: Methyl bromide may be trapped inside clothing and cause skin injury. Wear loose fitting sleeved shirts, long trousers and socks that are cleaned after each wearing, or disposable clothing. Do not wear jewelry, gloves or other gas confining apparel. If full face respiratory protection is not required, wear a full face shield for eye protection when handling liquid fumigant. After exposure, immediately remove clothing, shoes and socks. Do not reuse contaminated clothing until thoroughly decontaminated by airing and washing. Dirty hood shoes cannot be adequately decontaminated and should be disposed of properly.

POSTING OR PLACARDING REQUIREMENT: The applicator must place and post attention vest, the fumigated area with signs bearing in English and Spanish:

1. The signal word DANGER, PELIGRO and the skull and cross bones symbol.
 2. The statement, "Area under fumigation, DO NOT ENTER, NO ENTREE"
 3. The date of fumigation.
 4. Name of fumigant used, i.e., methyl bromide with chloropicrin.
 5. Name, address and telephone number of the applicator.
 6. Additional information required by local or state regulations.
- Only a certified applicator or someone under his/her supervision may remove placards and only when the concentration of methyl bromide in the treated site is below 5 ppm and chloropicrin is below 0.1 ppm.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL HAZARDS: Contains 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: This product is a non-flammable gas. There is no danger from fire or explosion in use concentrations. However, flames and other heat sources above 300°F can cause degradation of this product to liberate toxic and corrosive gases. The use of this product with aluminum, magnesium, zinc, and alkali metals will result in the liberation of toxic gases, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals may occur.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. This fumigant is a highly hazardous material and should be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions.

All persons working with this fumigant must be knowledgeable about the hazards, and trained in the use of required respiratory equipment and detector devices, emergency procedures, and proper use of the fumigant.

This product is to be used only for pre-plant soil fumigation.

Extreme caution should be taken when fumigating next to fields with animals or valuable crops, or next to buildings inhabited by humans or animals.

Conditions of Sale and Warranty

The conditions of sale and warranty reflect the opinion of experts based on field use and tests. The dealer is not to be held liable and it is the buyer's responsibility to eliminate all non-pesticide associated with the use of this product. Complete and thorough instructions for use and safety are included with this product. The use of this product with any other fumigant or other materials, or the use of any other application method, is not recommended by Van Waters & Rogers Inc. All warranties shall be governed by the Buyer.

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

Residues and Tolerances

Any pesticide chemical is a restricted use and may have a toxic residue on the plants to which it is applied. The U.S. Environmental Protection Agency has established maximum allowed levels of such pesticide chemical residues on or in agricultural products at harvest, and it is the user's responsibility to ensure that these maximum levels are not exceeded at harvest. The U.S. Environmental Protection Agency has established tolerance levels for residues of such pesticides on or in agricultural products at harvest. The U.S. Environmental Protection Agency has established tolerance levels for residues of such pesticides on or in agricultural products at harvest. The U.S. Environmental Protection Agency has established tolerance levels for residues of such pesticides on or in agricultural products at harvest. The U.S. Environmental Protection Agency has established tolerance levels for residues of such pesticides on or in agricultural products at harvest.

INHALATION HAZARD

POISON

6

METHYL BROMIDE AND MORE THAN 2% CHLOROPICRIN MIXTURE, LIQUID

ACCEPTED
 550-116
 22 SEP 1988
 U.S. DEPARTMENT OF AGRICULTURE
 NATIONAL ANIMAL HEALTH SERVICE
 WASHINGTON, D.C. 20250

STORAGE, HANDLING, AND DISPOSAL

CYLINDER STORAGE AND HANDLING: Store in a locked, dry, cool, well-ventilated area. Post a pesticide storage sign. Do not contaminate water, food or feed by storage. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be stored in areas having oil, grease, kerosene, or other flammable liquids. Do not use for anything other than the purpose for which the cylinder was designed. Do not use for anything other than the purpose for which the cylinder was designed. Do not use for anything other than the purpose for which the cylinder was designed.

DISPOSAL: Pesticides. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use of the labeling instructions, contact your State Pesticide or Environmental Control Agency, or the nearest Waste Management Agency at the nearest EPA Regional Office for guidance.

Cylinders: Cylinders remain the property of Van Waters & Rogers Inc. Any empty, defective or unneeded cylinders should be returned promptly to Van Waters & Rogers Inc. at the location on label 435-8-100 to arrange for pick-up. Do not ship cylinders without safety caps or protection bumpers. Credit will be issued for partial cylinders. Do not ship cylinders without safety caps and protection bumpers.

SPILL AND LEAK PROCEDURES: Evacuate immediate area of spill or leak. Do not permit entry into spill area by untrained persons until the concentration of methyl bromide is determined to be less than 5 ppm and/or chloropicrin is less than 0.1 ppm. Applying water to spills of this product completely covers detection of spilled material and increases the product's evaporation time. If leak occurs while cylinder is on tractor, i.e., rupture of hose or fitting, immediately stop tractor and motor. Use NIOSH/MSHA approved self-contained SCBA or combination air supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors or to an isolated location, observing strict safety precautions. Work upward if possible. Allow spill to evaporate. Because of the high percentage of chloropicrin (boiling point 220°F) in this product this may take some time. Increasing the airflow and/or temperature in the area of the spill will speed up the evaporation process. Alternatively, all leaking cylinder may be removed to an isolated area and the contents discharged under a polyethylene sheeting of 4 mil or greater thickness into the soil surface in a distance with instructions under SCBA. HUMANITARIAN TREATMENT: Contaminated soil, water, and other clean up debris is a toxic hazardous waste. Report spill to the National Response Center, 1-800-424-9303 if the reported quantity of 1000 pounds is exceeded.

(See PRODUCT BULLETIN for additional precautions and specific directions for use.)

Pathofume 75/25
Pathofume B

Pathofume 57/43
Trifume 2+2

Trifume

For use as a pre-plant soil fumigant. Use in structures is limited to soil treatment in greenhouses.

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Product	Active Ingredients (%)	Lbs./Gal	EPA Reg. No.
	Methyl Bromide Chloropicrin		
Pathofume 75/25	75 25	14.2	57-137 AA
Pathofume 57/43	57 43	14.2	57-139 AA
Pathofume B	67 33	14.2	57-137 AA
Trifume 2+2	57 55	14.1	57-138 AA
Trifume	43 57	14.1	57-136 AA

KEEP OUT OF REACH OF CHILDREN, IRRESPONSIBLE PERSONS AND PETS

DANGER POISON PELIGRO

In all cases of over-exposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove exposed person from contaminated area. Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration. Do not give anything by mouth to an unconscious person. If not on fire, do not use mouth out with water.

IF ON SKIN: Immediately remove contaminated clothing, shoes, and any other items on skin. Wash contaminated skin area thoroughly with soap and water.

IF IN EYES: Hold eye lids open and flush with a steady, gentle stream of water for at least 15 minutes.

NOTE TO PHYSICIAN: Early symptoms of overexposure are dizziness, headache, nausea and vomiting, weakness and collapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities, these effects are the usual cause of death. Repeated over-exposures can result in blurred vision, staggering gait and mental confusion with probable recovery after a period of no exposure. Blindness follows significant exposure, but not the degree of exposure. Treatment is symptomatic. See the product label for additional information.

ACCEPTED
550-116
22 SEP 1988

Van Waters & Rogers Inc.
subsidiary of UNIVAR
Seattle, WA 98104
EPA EST. No. 550-111 AA

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER

... (text partially obscured) ...

RECORDED BY PR. TEL. 1111

4. If the fumigant is pulled up by the studs to the end of the bed when fumigating, it must be covered by lifting the studs, then moving the studs with polyethylene film to make the bed for the next pass.
 5. When closing the system, be certain they are turned. If any fumigant system is not under pressure.
- After Applying Fumigant**
1. Post all treated areas with warning signs as prescribed in POSTING OR PLACARDING REQUIREMENTS under PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS.
 2. Keep all animals, children and unaided people away from area during removal of tarpaulin.
 3. Two trained persons must be present during removal of the tarpaulin.
 4. Tarpaulins should be removed when there is adequate air movement to disperse remaining fumigant in the working area below 5 ppm for methyl bromide and 0.1 ppm for chloropicrin. Because air movement is generally greater during the day, this is the best time to remove the tarpaulins.

Additional Precautions

The product is toxic to plants and should be applied to areas containing roots of insular vegetation. The edge of the cover should be at least two feet away from the roots of these plants.

Care should be taken to prevent the fumigant vapors from reaching desirable adjacent vegetation.

Do not allow fumigant vapors to come in contact with any other fumigant unless a tolerance exists for such use.

Adverse Effects On Fertilization: Fumigants may temporarily reduce nitrification in the soil thus increasing levels of ammonia nitrogen in the soil. Ammonia nitrogen is particularly phytotoxic. Accumulation of ammonium is most likely to occur when nitrogen fertilizers are applied to soils that are acidic, wet, cool, or high in organic matter. Apply nitrogen fertilizers at least 10 days before nitrogen and the crop is well established and soil temperature is above 65°F. Then fertilize as usual by the usual methods. Acid soils should be limed before fumigation to stimulate nitrification and to reduce possible ammonia toxicity.

Preventing Recontamination of Treated Areas: Do not contaminate fumigated areas by walking from unfumigated soil. Clean your shoes thoroughly if this is necessary. If the treated bed is in a location where flooding or washing is possible after rains, pass a furrow or make a trench around fumigated area for proper drainage. Wooden frames around the beds are also satisfactory for preventing this type of recontamination.

Cleaning of Application Equipment: Application equipment should be cleaned immediately after use by flushing with diesel oil or kerosene. Note: Water will increase the combative action of soil fumigants and should not be used.

- A. Tarpaulin Methods for Field, Nursery, Turf, & Seed or Transplant Bed Soils:**
1. **Overall Application:** Cover the bed with a chisel type applicator having the chisels spaced no more than 12 inches apart and injecting the fumigant to a depth of 6 to 10 inches below the soil surface. The soil surface must be covered immediately after treatment with a polyethylene film having equipment on the surface or other suitable cover. When the fumigant is applied, the proper rate of application should be observed.
 2. **Row or Bed Applications:** Apply the fumigant at rate to the area actually treated in the area defined by the film mulch. Rows in the soil should be spaced 12 inches apart and extra rows should be spaced 12 inches apart. Use one or more shanks per bed. Cover the soil surface immediately after application with a polyethylene film having equipment on the surface or other suitable cover. When the fumigant is applied, the proper rate of application should be observed.

All beds in the greenhouse covered with tarpaulins and aerate for at least two weeks before setting out transplants or vegetable seedlings. Long series may be used after 96 hours following the exposure period. If odor of fumigant persists at the end of the aeration period, stop or pause the series to assist aeration. Where polyethylene film is to be utilized in a mulch, aerate in a row pattern by making rows in the film on spacings appropriate for the crop to be planted.

B. Special Instructions for Greenhouse Soil Fumigation:

The use of fumigant in a confined space presents a potential hazard to humans and plant life. Special precautions must be taken to ensure that these potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that all safety precautions are strictly observed. Before the fumigation operation commences, the supervisor of the fumigation job shall have conducted proper training of all personnel involved in the fumigation. This includes use of safety equipment, removal of all persons from the area not directly involved in the fumigation, and inspection of the equipment to ensure proper application.

Two persons trained in the use of this product must be present during introduction of the fumigant, testing of the tarpaulin, introduction of aeration, and after aeration when testing for reentry. Two persons do not need to be present if monitoring a constant ammonia to inside the area being fumigated. If the concentration of methyl bromide is determined using an appropriate pump and detector tubes does not exceed 5 ppm for methyl bromide and 0.1 ppm for chloropicrin in the worker area, detection tubes, no respiratory protection is required.

Fumigation of greenhouse soil may be done by either Overall or Row or Bed Application described above depending on the greenhouse size and accessibility to equipment. Consult Rate Exposure Table below for proper rates of application and exposure periods. If work is being done by a single person, wearing protective equipment, should monitor the treated area with a halide detector. If excessive leaks are found, the source of the leak should be sealed immediately.

During the fumigation, seal all cracks and the opening of the tarp with the halide leak detector. All windows, windows and doors should be sealed and kept closed. Seal the ventilation. After fumigation, the greenhouse must be placarded on all entrances to the fumigated area with signs in accordance with Posting and Placarding Requirements in the PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS and all entrances sealed to prevent entry of unprotected workers and animals.

Aerial and Reentry: After the fumigation is completed, the fumigant and the soil vapors are determined to be less than 5 ppm in the worker area, the reentry of workers should be made upwind from a previous reentry site. Immediately after reentry of the fumigant and tarpaulin, a single person, wearing protective equipment, should monitor the treated area with a halide detector. If excessive leaks are found, the source of the leak should be sealed immediately.

C. Special Instructions for Florida Citrus:

Preplant soil fumigation is an essential control of Phytophthora and other nematodes in Florida sandy soils. Trees which are planted in the treated soil will be near susceptible for a period of at least 24 months. Apply with chisels spaced 12 inches apart to a depth of 6 to 10 inches. Aeration and seal immediately with a polyethylene film. Apply the product at the rate shown on the appropriate label in the period of 90 days before fumigation for 96 hours. The treatment will result in a 50% to 100% reduction in the soil.

Remove cover and aerate for two weeks before setting transplants in treated soil.

The Halide Leak Detector is used to detect gross leaks of the fumigant which is around spacing and tarpaulin. The detector is used to detect gross leaks of the fumigant which is around spacing and tarpaulin. The detector is used to detect gross leaks of the fumigant which is around spacing and tarpaulin. The detector is used to detect gross leaks of the fumigant which is around spacing and tarpaulin.

Rate (ppm)	Exposure (hr)	Rate (ppm)
5	12	0.1
10	6	0.1
15	4	0.1
20	3	0.1
25	2	0.1
30	1.5	0.1
35	1.2	0.1
40	1	0.1
45	0.8	0.1
50	0.6	0.1

appropriate detector tubes (for example, Draeger, Kitagawa, MSA, and Sensidyne), does not exceed 5 ppm (20 mg/M3) for methyl bromide or 0.1 ppm (0.3 mg/M3) chloropicrin, no respiratory protection is required. If these concentrations are exceeded at any time, or the concentration is unknown, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator or evacuate the area. Protective clothing is required to be worn any time respiratory protection is required. Because there is always a possibility of a spill or leak, the SPILL AND LEAK PROCEDURES under STORAGE, HANDLING AND DISPOSAL must be understood and followed.

PROTECTIVE CLOTHING: Methyl bromide and chloropicrin may be trapped inside clothing and cause skin injury. Wear loose, long sleeved shirts, long trousers and socks that are cleaned after each wearing, or disposable clothing. Do not wear jewelry, gloves or other gas confining apparel. If full-face respiratory protection is not required, wear a full-face shield for eye protection when handling liquid fumigant. After exposure, immediately remove clothing, shoes and socks. Do not reuse contaminated clothing until thoroughly decontaminated by airing and washing. Drenched shoes cannot be adequately decontaminated and should be disposed of properly.

POSTING OR PLACARDING REQUIREMENT: The applicator must placard or post all entrances to the fumigated area with signs bearing, in English and Spanish.

1. The signal word DANGER/PELIGRO and the skull and cross-bones symbol.
2. The statement, "Area under fumigation, DO NOT ENTER NO ENTREE".
3. The date of fumigation
4. Name of fumigant used, i.e., methyl bromide with chloropicrin
5. Name, address, and telephone number of the applicator
6. Additional information required by local or state regulations.

Only a certified applicator or someone under his/her supervision may remove placards and only when the concentration of methyl bromide in the treated site is below 5 ppm and chloropicrin is below 0.1 ppm.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to wildlife. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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: This product is nonflammable. There is no danger from fire or explosion in use concentrations. However, flames and other heat sources above 300°F can cause degradation of this product to liberate toxic and corrosive gasses. The use of this product with aluminum, magnesium, zinc, and alkali metals will result in the liberation of toxic gasses, and possible fire and explosion. In addition, severe corrosion of containers and equipment made of these metals may occur.

DIRECTIONS FOR USE

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

This fumigant is a highly hazardous material and should be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions.

All persons working with this fumigant must be knowledgeable about the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the fumigant.

This product is to be used only for pre-plant soil fumigation.

Extreme caution should be taken when fumigating next to fields with animals or valuable crops, or next to buildings inhabited by humans or animals.

STORAGE, HANDLING, AND DISPOSAL

CYLINDER STORAGE AND HANDLING: Store in a locked, dry, cool, well-ventilated area. Post as a pesticide storage area. Do not contaminate water, food or feed by storage. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured. Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protective bonnet before returning to shipper. Only the registrant, or his designee is authorized to refill cylinders. Do not use cylinders for any other purpose.

DISPOSAL - Pesticides: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or waste is a violation of Federal Law. If these wastes cannot be disposed of by use 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.
Cylinders: Cylinders remain the property of Van Wazer & Rogers Inc. Any empty, defective, and un-

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0.25

Chemical And Physical Properties for Methyl Bromide and Chloro

Property	Methyl Bromide
Formula	CH ₃ Br
Color	Colorless to light yellow
Physical State	Gas at 25°C, Liquid under pressure
Odor	Odorless
Flammability	Nonflammable
Explosibility	Nonexplosive
Boiling Point	3.6°C (38.5°F)
Freezing Point	-93°C (-135.4°F)
Density of Liquid (0°C (32°F))	1.732 gm/ml
Weight per Gallon (0°C (32°F))	14.4 lb
Specific Gravity of Gas at 760 mm Hg (Air = 1.00)	3.27
Vapor Density 20°C (68°F)	0.247 lb/cu. ft.
Vapor Pressure 20°C (68°F)	1400 mm Hg
Solubility in Water	Very slight, forms a voluminous white precipitate with ice water

NAMCO Pathofume 75/25 Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	240-320 lb/A
Florida Citrus ⁵	1.5 lb/100 sq. ft.
Nursery and greenhouse soils, seed and transplant beds and turf:	
Non-food crops	240-580 lb/A
Tobacco	1.2 lb/100 sq. ft.
Tomato (greenhouse crop)	240-580 lb/A

NAMCO Pathofume 57/43 Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	315-420 lb/A
Florida Citrus ⁵	2 lb/100 sq. ft.
Nursery and greenhouse soils, seed and transplant beds and turf:	
Non-food crops	315-760 lb/A
Tobacco	1.8 lb/100 sq. ft.
Tomato (greenhouse crop)	315-420 lb/A

NAMCO Pathofume B Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	270-360 lb/A
Florida Citrus ⁵	1.5-2 lb/100 sq. ft.
Nursery and greenhouse soils, seed and transplant beds and turf:	
Non-food crops	270-650 lb/A
Tobacco	1.5 lb/100 sq. ft.

Mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, rings, or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured. Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protective bonnet before returning to shipper. Only the registrant, or his designee is authorized to refill cylinders. Do not use cylinders for any other purpose.

DISPOSAL - Pesticides: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

Cylinders: Cylinders remain the property of Van Waters & Rogers Inc. Any empty, defective, and unneeded cylinders should be returned to Van Waters & Rogers Inc.; call the local office or (408) 435-8700 to arrange for pick-up. Credit will be issued for partial cylinders. Do not ship cylinders without safety caps and protective bonnet.

SPILL AND LEAK PROCEDURES: Evacuate immediate area of spill or leak. Do not permit re-entry into spill area by unprotected persons until the concentrations are determined to be less than 5 ppm for methyl bromide and 0.1 ppm for chloropicrin. Note: Applying water to spills of this product complicates detection of spilled material, increases the product's evaporation time and spreads contamination. If leak occurs while cylinder is upright, i.e., rupture of hose or fitting, immediately stop tractor and motor. Use NIOSH/MSHA approved self-contained SCBA or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Because of the high percentage of chloropicrin (boiling point 220°F) in this product this may take some time. Increasing the air flow and/or temperature in the area of the spill will speed up the evaporation process. Alternatively, a leaking cylinder may be removed to an isolated area and the contents discharged under a polyethylene sheeting of 4 mil or greater thickness into the soil surface in accordance with instructions under Soil Fumigation Directions. Contaminated soil, water, and other clean-up debris is a toxic hazardous waste. Report spill to the National Response Center (800/424-8802) if the reportable quantity of 1000 pounds is exceeded.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Van Waters & Rogers Inc. All such risks shall be assumed by the Buyer.

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.

Residues and Tolerances

Any pesticidal chemicals are poisonous and may leave a toxic residue on the plants to which they are applied. The U.S. Environmental Protection Agency has established maximum amounts of such pesticidal chemicals that may remain on raw agricultural products at harvest, and it is the user's responsibility to see that there is no residue on such crops in excess of these amounts. The "DIRECTIONS FOR USE" are based on the best available information, and if followed carefully should not leave excessive residues at harvest. However, Van Waters & Rogers Inc. assumes no responsibility as to their accuracy nor for any loss due to excessive residues.

Pests Controlled

This product is useful in controlling the following pests when present at the time of treatment:

Plant-parasitic nematodes, including root-knot, root lesion (meadow), cyst, citrus, burrowing, false root-knot, lance, spiral, ring, sting, stubby root, dagger, awl, sheath and stunt (stylet).

Soil-borne disease organisms, including *Pythium*, *Rhizoctonia*, *Phytophthora*, *Pyrenochaeta*, *Sclerotinia*, *Sclerotium*, *Fusarium* and the clubroot organism, *Plasmodiophora*.

Weeds and weed seed, broadleaf weeds and grasses including quackgrass, annual bluegrass, broom-rape, common lambsquarters, torpedograss and Bermudagrass. While normally not effective against seeds of dodder, filaree, mallow, morning glory and some species of clover, enhanced control may be obtained by using higher dosages and/or longer exposure periods.

Insects in the soil, including: wire-worms, cutworms, grubs, rootworms, ants and garden symphylans.

Treatment Conditions

When to Treat: Treatments can be made any time of year when soil conditions are suitable. In northern states, late summer or early fall treatments are best for land to be planted to early spring crops.

Temperature Requirements: Do not fumigate if the soil temperature is below 50°F. For the best results, fumigate when soil temperature is 60 to 80°F at the depth of 6 to 8 inches.

Pre-treatment Soil Preparation: Plow or rip or otherwise till the soil to the depth to which effective treatment is required. The soil should be worked until free of clods or large lumps. Residue from previous crops should be worked into the soil to allow for decomposition prior to fumigation. Soil moisture should be optimum for seed germination. Coarse textured soils can be fumigated with higher moisture content than fine textured soils. For best results soil should be kept moist for at least four days prior to treatment.

NAMCO Pathofume B Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD ²	EXPOSURE TIME
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	270-360 lb/A	24-48 hr.
Florida Citrus ⁵	1.5-2 lb/100 sq. ft.	24-48 hr.
Nursery and greenhouse soils, seed and transplant beds and turf:		
Non-food crops	270-650 lb/A	24-48 hr.
Tobacco	1.5 lb/100 sq. ft.	24-48 hr.
Tomato (greenhouse crop)	270 360 lb/A	24-48 hr.

NAMCO Trifume Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD ²	EXPOSURE TIME
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	400-530 lb/A	24-48 hr.
Florida Citrus ⁵	2 lb/100 sq. ft.	24-48 hr.
Nursery and greenhouse soils, seed and transplant beds and turf:		
Non-food crops	400-970 lb/A	24-48 hr.
Tobacco	2 lb/100 sq. ft.	24-48 hr.
Tomato (greenhouse crop)	400-530 lb/A	24-48 hr.

NAMCO Trifume 2+2 Rate/Exposure Table

TREATMENT SITE	RATE ¹ & METHOD ²	EXPOSURE TIME
Field soils to be planted to: Asparagus, broccoli, cauliflower, eggplant, lettuce ³ , muskmelons, onions (dry bulb) ⁴ , peppers, pineapples, strawberries, tomatoes	360-480 lb/A	24-48 hr.
Florida Citrus ⁵	2 lb/100 sq. ft.	96 hr.
Nursery and greenhouse soils, seed and transplant beds and turf:		
Non-food crops	360-480 lb/A	24-48 hr.
Tobacco	2 lb/100 sq. ft.	24-48 hr.
Tomato (greenhouse crop)	360-480 lb/A	24-48 hr.

- Use the higher rates in finer soils and those high in organic matter.
- Methods of application is by injection with chisels plus covered with tarpaulin.
- Use limited to one application in 2 to 3 years. Use limited to California only. Lettuce big vein is also controlled.
- Onions (direct seeded)(dry bulb). West of Rockies only. White rot is also controlled.
- May not bear harvestable fruit within 24 months.
- Seeds of certain weeds such as clover, morning glory, filaree, and others with hard seeds may require a higher dosage or a longer exposure period for effective control.