

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

**DANGER
HIGH ACUTE TOXICITY**

Extremely hazardous liquid and vapor under pressure. Do not breathe vapor. Inhalation may be fatal or cause serious acute illness or delayed lung or nervous system 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 as a warning odorant. Chloropicrin may be irritating to the upper respiratory tract, and even at low levels can cause painful irritation to the eyes, producing tearing. If these symptoms occur, leave the fumigation area immediately.

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 overexposure 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.

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 previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL HAZARDS: Do not use or store near heat, open flames, or sparking electrical equipment.

CHEMICAL HAZARDS: Do not use application devices incorporating natural rubber or aluminum or magnesium or their alloys.

DIRECTIONS FOR USE

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

PROTECTIVE CLOTHING: Wear loose cotton long sleeve shirt and pants, shoes and socks that are cleaned after each wearing. Do not wear jewelry, gloves or boots when handling. Methyl bromide and chloropicrin are heavier than air and may be trapped inside clothing and cause skin injury. If full-face respiratory protection is not required, wear goggles or full face shield for eye protection when handling liquid. After application, immediately remove clothing, shoes and socks. Do not reuse contaminated clothing or shoes until cleaned. Drenches, clothing cannot be adequately decontaminated.

PESTICIDE STORAGE, HANDLING AND DISPOSAL

PESTICIDE STORAGE AND HANDLING: Store in dry, cool, well-ventilated area under lock and key. 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.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, either contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance, or follow registrant's instructions for return of partially empty cylinders.

CONTAINER DISPOSAL: When cylinder is empty, close valve by turning clockwise until hand tight, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders.

RETURN OF CYLINDERS:

- (1) Cylinders are the property of the manufacturer or distributor where purchased and should be returned promptly by collect freight.
- (2) Do not ship cylinders without safety caps or valve protection bonnets.
- (3) When a cylinder is partially full and there is no further requirement for the product, contact the manufacturer or distributor for return instruction.
- (4) Containers should never be refilled by the consumer or used for any other product or purpose.

**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 Applicators certification.

METABROM 99

CONTAINS 0.25% CHLOROPICRIN

ACTIVE INGREDIENT:	By Wt.
METHYL BROMIDE	99.3%
INERT INGREDIENTS	0.7%
Chloropicrin (warning odorant tear gas)	

TOTAL 100%

ACUTELY TOXIC CHEMICAL
14.3 LBS. Active Ingredient per gal. (LIQUID IN CYLINDER)

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO



POISON

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

STATEMENT OF PRACTICAL TREATMENT

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

If inhaled — Get exposed person to fresh air. Keep warm. Make sure person can breathe freely. If breathing has stopped apply artificial respiration. Do not give anything by mouth to an unconscious person.

If on skin — Immediately remove contaminated clothing, shoes, jewelry, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

If in eyes — Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

See side panels for additional precautionary statements.

EPA REG. NO. 8622-17-AA

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- EPA EST. NO. 15298-IS-01
- EPA EST. NO. 29516-FL-04
- EPA EST. NO. 29516-NC-01

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Call Collect: (805) 988-9719 (Calif.)
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256-4000

Net contents: _____ LBS. / _____ KGS.

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SPECIFIC DIRECTIONS FOR USE

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 precaution and directions, including those in the Product Manual No. AM-210, Manual for the Safe Handling and Application of Methyl Bromide Products.

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 (see the Product Manual No. AM-210).

PRECAUTIONS FOR USAGE

When used for fumigation of enclosed spaces (e.g. empty houses, structures, warehouses, greenhouses, boxcars, grain bins or elevators and other transport vehicles and tarpaulin covered areas) and soil, two persons trained in the use of this product must be present during introduction of the fumigant, initiation of aeration, and after aeration when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated).

Do not fumigate any raw or processed commodity with Metabrom 99.

Do not fumigate with this product when soil temperature is below 50°F at 6-8 inches. Specific directions for use in empty structures, vehicles, chambers, vacuum chambers, railroad cars, and greenhouses are given in the Product Manual No. AM-210.

Placarding Required: 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 crossbones symbol.
- 2 The statement, "Area under fumigation, DO NOT ENTER/NO ENTRE"
- 3 The date of fumigation.
- 4 Name of fumigant used
- 5 Name, address, and telephone number of the applicator.

Do not remove a placard until the treated commodity is completely aerated—To determine whether aeration is complete, each fumigated site or vehicle must be monitored and shown to contain less than 5 ppm methyl bromide in the air space around and, when feasible, in the mass of the commodity. If less than 5 ppm methyl bromide is detected, the placard may be removed. However, if 5 ppm or greater methyl bromide is detected, the placard must be transferred with the commodity to the new site. Workers who transfer or handle incompletely aerated commodity must be informed and appropriate measures must be taken (i.e., ventilation or respiratory protection) to prevent exposures from exceeding 5 ppm or greater methyl bromide.

Respiratory Protection: If the concentration of methyl bromide in the working area, as measured by a direct-reading detector device (e.g., Draeger Tube as described in the Product Manual), does not exceed 5 ppm (20 mg/m³), no respiratory protection is required.

If this concentration is exceeded at any time, all persons in the working area must wear protective clothing and a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCEA respirator (see the Product Manual No. AM-210).

drivers must instruct their helpers in the mechanical operation of the tractor safety work and the tractor and driver while fumigating.

1. fumigant in the open, with the operator "up wind" from the container where od ventilation.

2. gas pressure systems for leaks before beginning operation.

3. persons must be present during introduction of the fumigant.

4. getting soil from a tractor, 5 gallons of water must be carried on the tractor and as it is readily available in addition to water available on the tractor, at least 20 gallons of water must be available from the service truck. This water must be in containers marked "Decontamination water not to be used for drinking" and be cleared from the field before starting fumigation.

5. fumigation. This fumigant should not be applied when there is an atmospheric inversion or when concentrations of chloropicrin may drift to nearby areas. Cover treated area with plastic tarpaulin for a minimum of 48 hours.

6. reaction shanks is firm at the end of a pass until fumigant has drained from nozzle closure of shut-off valve.

7. shanks are driven by the shanks to the ends of the field when fumigating, it is advised by turning the shanks, then covering the track with polyethylene film before turning the shanks back.

8. turning the cylinders, be certain they are turned off and fumigant system is not used.

9. signs: Post all treated areas with warning signs.

10. safety: Children and unauthorized people away from area under fumigation for at least 24 hours. Do not enter until after removal of tarpaulin.

11. persons must be present during removal of the tarpaulin.

12. stop fumigation: In case of a rupture of hose or fitting while applying fumigant, stop tractor and water. Evacuate immediate area of spill or leak. Use SCBA or air-supplied respirator for entry into affected area to correct problem. Do not enter until tests necessary repairs. Do not reenter area without respiratory protection if a spill has occurred or a leak has been fixed.

DWELLING FUMIGATION DIRECTIONS (Post Control Operators Only)

1. fumigation of dwellings has persons trained in the use of this product must bring introduction of the fumigant, initiation of aeration, and after aeration when entry. Two persons do not need to be present if monitoring is conducted remotely (see being fumigated).

2. fumigation is made gas-tight using a tarpaulin which has been sealed and/or sealed at the ends of the tarpaulin. Area to be fumigated is calculated and introduced. Dwelling is to be sealed showing ease of 1 gallon. Following fumigation is to be ventilated for several hours until fresh air is below 5 ppm.

3. fumigation in garages will not be controlled unless gas is introduced into those special procedures.

4. fumigation: Termite, wood borers, and any other insects (cockroaches, spiders) fumigated dwelling. Methyl bromide will control all insects and trapped rodents within structure.

5. See Table 3 and Product Manual No. AM 210.

6. fumigation: push all fans such as pilot lights and glowing heating units to avoid corrosion.

7. fumigation: 8. Post control and other sites including dwellings.

9. fumigation: following fumigation team building before fumigation as they may develop holes. Use high pressure hose and nozzle. Hose should be washed with water. Use rubber gloves, rubber containing no powders or synthetic detergents.

10. Manual No. AM 210 and Table 2 for specific dosage per 1,000 cu. ft. plus of exposure time.

SOIL FUMIGATION (See Table 1)

11. this product: for soil fumigation in the State of Florida.

12. fumigation: fumigation, including nut-and-apple, tylenchus, phytophthora, nematodes, and Pratylenchus on almonds, apples, apricots, cherries, citrus, peaches, plums, pistachios, plums, prunes, strawberries, tomatoes and

13. fumigation: including Pythium, Rhizoglyphus, Phytophthora, Phytophthora, Sclerotinia

Hot Gas Method: The "hot gas method" consists of using a commercially manufactured heat exchanger, or a copper coil submerged in a vessel containing hot water, to vaporize the fumigant before introduction.

This method may be useful where large amounts of fumigant are required and rapid vaporization is advantageous.

Dosage: Use one to two pounds of Metabrom 99 per 100 square feet for an exposure period of 24 hours when soil temperature is 60°F or higher. Methyl bromide penetrates the soil to the depth it has been plowed or tilled. When soil temperature is between 50°F and 60°F and the exposure period is 48 hours. Do not treat when soil temperature is below 50°F.

A. TREE SITE FUMIGATION DIRECTIONS (FOR USE IN FLORIDA ONLY)

Preplant or replant fumigation of citrus and for control of Phytophthora and citrus nematodes in Florida citrus fields. Trees which are planted in the treated soil will not bear harvestable fruit for a period of at least 24 months. Apply with chisel spaced 12 inches apart to a depth of 8 to 8 inches. Seal fumigant with a drag or cultipacker following immediately behind chisel. Apply Metabrom 99 at the rate of 1 pound per 100 square feet. Immediately cover with a 4 mil. tarp and expose to fumigation for 96 hours. This treatment will control diseases to a depth of 4 feet. Remove cover and aerate 2 weeks before setting transplant in treated area.

B. SPECIAL INSTRUCTIONS FOR THE CONTROL OF ARMILLARIA MELLEAE (OAK ROOT FUNGUS) ON DISCIDIOUS FRUIT AND NUTS, CITRUS AND VINEYARDS

Preparation for Application: To obtain the maximum control of Armillaria melleae with Metabrom 99 soil must be dry to a depth requiring treatment. This can be accomplished by a) planting sudangrass in the spring, irrigating until the grass has established itself then withholding further irrigation, b) naturally, by allowing plants to grow without irrigation. When soil is dry, cut and remove grass, plants and debris. Rip soil to a depth of 36 inches and disc to smoothness.

Dosage and Method of Application: This is a preplant or replant treatment. Crops which are planted in the treated soil will not bear harvestable fruit for a period of at least 24 months. Methods and dosage of application are as follows. See Table 1.

1. Non-Tarp Chisel Application: After the soil has been properly prepared inject 400-870 pounds of Metabrom 99 per acre by chisel applications with 2 chisels spaced 86 inches apart to a depth of 24-30 inches. For non-tarp applications be sure to properly seal the chisel line which may be accomplished by the following equipment modifications.

2. Tarp Chisel Application: After the soil has been properly prepared, apply 400-870 pounds of fumigant per acre by chisels spaced 48-66 inches apart and cover with adequate polyethylene film seal.

3. Deep Injection Auger-Probe Treatment: Use one strand of Metabrom 99 in light soils (two pounds in fine-textured soils) to a depth of 36 inches or more below the soil surface. Assume one injection site per 100 square feet (on a 10 ft. x 10 ft. grid pattern) with the injection in the center of the area to be treated.

Exposure and Aeration Period:

1. To insure the proper time-concentration relationship to control oak root fungus for chisel applications, we recommend a seven day exposure period before removing the polyethylene film cover, and a one day interval with Deep Injection Auger-Probe treatment after which planting or replanting of trees, vines or other deep-rooted crops may begin 14 days later.

2. Metabrom 99 will not usually control weed seeds under very dry conditions. However some control may be observed on deep-rooted perennials such as morningglory (bind weed) and muscadine of Johnsongrass.

C. NON-TARP NEMATODE CONTROL

For control of nematodes (including Metastelgysia spp., Xiphinema spp., Criconemidae, Pratylenchus, and Paratylenchus) on almonds, apples, apricots, cherries, citrus, grapes, vineyards, peaches, pecans, pistachios, plums, prunes, strawberries, tomatoes and walnuts.

Pre-treatment Soil Preparation: Rip or till the soil to a depth of 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. For best results soil should be kept moist for at least four days prior to treatment. Do not fumigate if the soil temperature is below 60°F.

For best results, fumigate when soil temperature is 60°F to 80°F at the depth of 8 inches. Use the higher labeled rates for weak and heavy clay soils.

Dosage and Method of Application: This is a preplant or replant treatment. Do not apply to soil where trees or vines will bear harvestable fruit within 24 months. A waiting period of at least 14 days should be observed between application and planting. Methods and dosage of application are as follows.

1. Chisel Application: After the soil has been properly prepared, inject 400-870 pounds of Metabrom 99 per acre by chisel application with 2 chisels spaced 86 inches apart to a depth of 24-30 inches. For non-tarp applications be sure to properly seal the chisel line.

Fumigant Use	Name	Dosage / Exposure
Dwellings, Garages and Bays	Least Rate - 1,000 cu. ft.	1 lb. 36 hr.
	Medium Rate - 500-600 cu. ft.	1 1/2 lb. 24 hr.
	High Rate - 250-300 cu. ft.	2 lb. 24 hr.
	Over 1,000 cu. ft.	1 lb. 24 hr.

Greenhouse (empty)	4.5 cu. ft.	17.6 hr.
Face Frame (empty)	30	24 hr.
Open Box (empty)	30	24 hr.
Box Frame and	1 1/2 cu. ft.	24 hr.
Chisel Safety	7.5 cu. ft.	2 hrs.

Greenhouse (empty)	4.5 cu. ft.	17.6 hr.
Face Frame (empty)	30	24 hr.
Open Box (empty)	30	24 hr.
Box Frame and	1 1/2 cu. ft.	24 hr.
Chisel Safety	7.5 cu. ft.	2 hrs.

Furniture	1 cu. ft.	24 hr.
	2 cu. ft.	2 hrs.

Lumber and Wood Products	1.5 cu. ft.	24 hr.
	2 cu. ft.	2 hrs.

Greenhouse (empty)	4.5 cu. ft.	17.6 hr.
Face Frame (empty)	30	24 hr.
Open Box (empty)	30	24 hr.
Box Frame and	1 1/2 cu. ft.	24 hr.
Chisel Safety	7.5 cu. ft.	2 hrs.

Furniture	1 cu. ft.	24 hr.
	2 cu. ft.	2 hrs.

Lumber and Wood Products	1.5 cu. ft.	24 hr.
	2 cu. ft.	2 hrs.

Greenhouse (empty)	4.5 cu. ft.	17.6 hr.
Face Frame (empty)	30	24 hr.
Open Box (empty)	30	24 hr.
Box Frame and	1 1/2 cu. ft.	24 hr.
Chisel Safety	7.5 cu. ft.	2 hrs.

Furniture	1 cu. ft.	24 hr.
	2 cu. ft.	2 hrs.

*At temperatures below 60°F, increase the dosage by 1/2 pound per 1,000 cu. ft. for every 10°F. Do not fumigate when temperatures are below 50°F.
For dosages on soil and house structures fumigating containing 7% or more chloropicrin.
Methyl bromide.
Methyl bromide (25-27).
NOTE: Remove heat and heat exchanger before fumigating dwellings.

