

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 or vapor on skin, in eyes or on clothing.

This product contains chloroform as a warning agent. Chloroform 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 impairment, 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.

WORKING CONDITIONS: Wear loose clothing and socks that are cleaned after each working day. Do not wear jewelry, gloves or boots when handling. Heavy brushes to heater 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. Decontaminated 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, lugs, 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 dealer. 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.

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 Manual for the Safe Handling and Application of Methyl Bromide Products No. AA-210.

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. AA-210).

PRECAUTIONS

Labeling 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

Only a certified applicator or assessor under his/her supervision may remove placards, and only when the concentration of methyl bromide in the treated site is below 5 ppm. Any person who transfers a treated, tarpcovered soil to another site without caution must ensure that the new site is placarded until the soil is aerated below the threshold concentration.

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 the 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/SCBA respirator (see the Product Manual No. AA-210).

PRECAUTIONS FOR USAGE PRIOR TO, DURING, AND AFTER SOIL FUMIGATION

Specific instructions for application appears in the Manual for the Safe Handling and Application of Methyl Bromide Products No. AA-210.

RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY

For retail sale to and use only by Certified Applicator or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

98-2

CONTAINS 2% CHLOROPICR'N
Preplant Soil Fumigant

ACTIVE INGREDIENT:	By wt.
METHYL BROMIDE	97.8%
INERT INGREDIENTS	2.4%
*Contains CHLOROPICR'N (warning agent) (see gals)	
TOTAL	100%

ACUTELY TOXIC CHEMICAL
14.1 LBS. Active ingredient per gal. LIQUID IN CYLINDER

KEEP OUT OF REACH OF CHILDREN

DANGER  **PELIGRO**



PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le expliquen lo hayo sido explicado anteriormente.

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 8622-12-AA-

- EPA EST NO 10183-AZ-01
- EPA EST. NO. 18288-MB-01
- EPA EST. NO 28816-FL-04
- EPA EST. NO. 28816-NC-01

Distributed by:

IN CASE OF EMERGENCY CONTACT:

Chemtec (800) 424-9300
or
Methyl Bromide
Call Collect: (919) 675-9409 (N.C.)
(212) 286-4000 (N.Y.)

AmeriBrom, Inc.

50 WINDFELT AVENUE, NEW YORK, NY 10017
TELEPHONE: (212) 286-4000
FAX: (212) 286-4475

Net contents _____ LBS / _____ KGS

Prior to Fumigation: Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies as required.

Never fumigate alone. It is imperative always to have an assistant and proper protective equipment in case of accidents.

Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to safely work with the tractor and driver while fumigating.

Handle this fumigant in the open, with the operator "up wind" from the container where there is good ventilation.

Check fumigant pressure systems for leaks before beginning operation.

The trained persons must be present during introduction of the fumigant.

When fumigating soil from a tractor, 5 gallons of water must be carried on the tractor and placed where it is readily accessible. In addition to water available on the tractor, at least 5 gallons additional water must be available from the service truck. This water must be potable and in containers marked "Decontamination water not to be used for drinking."

All trash should be cleared from the field before starting fumigation.

During Fumigation: This fumigant should not be applied when there is an atmospheric inversion. Since unacceptable concentrations of chloroform may drift to nearby areas, immediately cover treated area with plastic tarpaulin for a minimum of 48 hours.

Do not let injection shanks to turn at the end of a pass until fumigant has drained from system following closure of shut-off valve.

If trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must be covered by using the shanks, then covering the trash with polyethylene film before making the turn for the next pass.

When changing the cylinders, be certain they are turned off and fumigant system is not under pressure.

After fumigation: Post all treated areas with warning signs.

BEST AVAILABLE COPY

Keep all animals, children and unweathered people away from area under fumigation for 48 hours after fumigation and during removal of tarpaulin.

The treated persons must be present during removal of the tarpaulin.

Spill and Leak Procedures: In case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied/SCBA respirator for entry into affected area to correct problem.

PRECAUTIONS FOR USAGE IN ENCLOSED SPACES

When used for fumigation of soil in enclosed spaces (e.g. greenhouses and tarpaulin covered areas) two persons trained in the use of the product must be present during introduction of the fumigant, initiation of aeration, and other operation when testing for safety. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated).

Do not fumigate with this product when soil temperature is below approx. 50°F. at 6-8 in. Specific directions for use in greenhouses are given in the Product Manual No. AM-518.

Aeration and Recovery: After fumigation, treated areas must be aerated until the level of methyl bromide is below 1 ppm. Do not allow entry into the treated area by any person before this time unless protective clothing and a respiratory protection device (SCBA or combination air-supplied/SCBA) is worn.

Spill and Leak Procedures: Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied/SCBA respirator for entry into affected area to correct problem. Move leaking or damaged cylinders or containers outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Do not permit entry into spill area by unprotected persons until concentration of methyl bromide is determined to be less than 1 ppm.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-9303) if the reportable quantity of 1000 lbs. is exceeded.

PREPLANT SOIL FUMIGATION

SPECIAL INSTRUCTIONS FOR THE CONTROL OF ARILLARIA MELLEAE (OAK ROOT FUNGUS) ON DECIDUOUS FRUITS AND NUTS, CITRUS AND VEGETABLES.

Preparation for Application: To obtain the maximum control of Arillaria melleae with MB-2, soil must be dry to a depth requiring treatment. This can be accomplished by 40 planting techniques in the spring, irrigation until the ground has established itself, then withholding further irrigation.

It is essential, by allowing plants to grow without irrigation. When soil is dry, cut and remove grass, plants and debris. Flip soil to a depth of 20 inches and disc to smoothness.

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

Treatment Rate: Rate (lb./A) 400-670. Exposure Time 24-48 hrs.

Plants to be planted to Citrus and Deciduous (nuts and nuts plant-food)

1. Non-Tarp Chisel Application: After the soil has been properly prepared (400-670 pounds of MB-2 per acre by chisel application with 2 shovels spaced 60 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. Place a wing behind the chisel 2 to 4 inches above the chisel outlet to break the chisel mark. Place a chisel behind the chisel at the soil surface to push dirt into the upper chisel mark. Follow with a cone-shaped press wheel with a chisel to pull additional soil into the chisel line. This is followed by a flat roller to press the soil even with the adjacent soil surface. This treatment will treat a strip 60 inches wide.

2. Tarp Chisel Application: After soil has been properly prepared, apply 400-670 pounds of fumigant per acre by chisel spaced 40-60 inches apart and cover with adequate polyethylene film cover.

3. Deep Injection Auger-Probe Treatment: Use one pound of MB-2 per injection site (one pound in 100 square feet) to a depth of 20 inches or more below the soil surface. Assume one injection site per 100 square feet (20 x 10 ft. x 10 ft. grid pattern) with the injection in the center of the area to be treated.

Seeds and Aeration Period:

- 1. To insure the proper low-concentration relationship to control soil root fungus for chisel application, use recommended aeration cycle (days) spaced 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. MB-2 will not usually control weed seeds under very dry conditions. However, some control may be observed on deep-rooted perennials such as morningglory (sandwich) and rhizomes of Johnsongrass.

NON-TARP NEMATODE CONTROL

For control of nematodes (including Meloidogyne spp., Nippostrongylus spp., Criconemoides, Pratylenchus, and Pharyngodon) on alfalfa, apples, apricots, avocados, citrus, grapes, raspberries, peaches, pears, potatoes, plums, prunes and walnuts.

Pre-treatment Soil Preparation: Flip or rip the soil to the depth in 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 insect germination. For best results soil should be kept moist for at least four days prior to treatment. Do not fumigate when soil temperature is below 50°F. For best results, fumigate when soil temperature is 50°F to 60°F at the depth of 6 inches.

Use the higher labeled rates for much and heavy clay soils.

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

1. Chisel Application: After the soil has been properly prepared, apply 400-670 pounds of MB-2 per acre by chisel application with 2 shovels spaced 60 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.

Place a wing behind the chisel 2 to 4 inches above the chisel outlet to break the chisel mark. Place a chisel behind the chisel at the soil surface to push dirt into the upper chisel mark. Follow with a cone-shaped press wheel with a chisel to pull additional soil into the chisel line. This is followed by a flat roller to press the soil even with the adjacent soil surface. This treatment will treat a strip 60 inches wide.

2. Deep Injection Auger-Probe Treatment: Use one pound of MB-2 per injection site in lighter soils. Use one pound of MB-2 in the treated soils. Use one injection site per 100 square feet (20 x 10 ft. x 10 ft. grid pattern) with the injection in the center of the area to be treated. Tarp or compact 90 soil at the point of injection.

MB-2 used without a tarp will not usually control most weed seeds. However, some control may be observed on deep-rooted perennials such as morningglory (sandwich) and rhizomes of Johnsongrass.

MB-2 may be used as a preplant soil fumigant for land in which plants may be grown for nonfood and nonfeed crop uses. These uses are for seed and plant beds, nurseries and permanent planting sites for alfalfa, beans and other ornamental and non-food crops, forest and shade trees, ornamental flowers, shrubs and other shrubs and other shrubs. MB-2 may be used in vegetable seed beds for prevention of plants that are later transplanted to untreated soil or soil treated to lesser degrees for registered products, and in orchard and vineyard planting sites and beds where raspberries, strawberries, grapes, apricots, cauliflower, brussels sprouts, onions (spring bulb), watermelons, lilies and hellebores are to be grown for food.

APPLICATION: SEED AND PLANT BEDS (PLANT BEDS) FOR TRANSPLANTING

Prior to planting apply MB-2 at the rate that appears in the dosage table by means of a tractor mounted chisel spaced 12 inches apart and at a depth of 5-6 inches below the soil surface. To seal fumigant after application cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to fumigation, the soil should be in moist bed condition with adequate moisture to support seed germination. The soil should be worked to the depth it is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and then allowed to rot in decompose before treatment.

TREE, NURSERY, AND FLORAL CROPS: Follow directions for seed and plant beds. If fumigating old turf the soil should be worked up before fumigating. It is desirable for the old turf to be incorporated into the soil by retreating, discing or plowing. Use rate and exposure time that is indicated in the dosage table.

TOMATOES, STRAWBERRIES, PEAS/APPLES, CAULIFLOWERS, BROCCOLI, SWEETCORN, SQUASHES, PEPPERS, CUCUMBERS (BIV GALS, ASPARAGUS, AND LETTUCE: Follow directions for seed and plant beds. Use rate and exposure time that is indicated in the dosage table.

Flow or leak applications may be made at the broadcast rate and the amount used will be proportionately less per acre depending on the low spacing and slope of treatment in the row or bed. Use the lowest. The "hot gas method" consists of using a mechanically manufactured heat exchanger, or a similar cell fabricated in a vessel containing hot water, to regulate the fumigant before introduction. This method may be useful where large amounts of fumigant are required and rapid vaporization is advantageous.

CAUTION: Prior to starting apply MB-2 at the rate that appears in the dosage table by means of a tractor mounted chisel spaced not more than 12 inches apart. Space the MB-2 at a depth of not less than 20 inches. To seal fumigant after application for disease control, cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to application the soil should be moist to not less than 20 inches and the subsoil should be as dry as possible. Soils with high moisture will inhibit deep penetration of the MB-2. Plant refuse and other debris should be worked into the soil before application to control fruitborne rot with MB-2. Crop refuse and other debris should be dried out by plowing under grass and withholding water from it during the summer. This will increase penetration of MB-2. Do not apply MB-2 to soil where vines will grow within 24 months.

DECIDUOUS FRUITS, NUTS, CITRUS, VEGETABLES AND OTHER PERENNIAL CROPS (Do not harvest until 24 months after fumigation)

Prior to planting apply MB-2 at a rate and exposure time that is indicated in the dosage table. To seal fumigant after application for disease control, cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. The soil should be moist to not less than 20 inches and the subsoil should be as dry as possible. Lower moisture will inhibit deep penetration of the MB-2. Plant refuse and other debris should be worked into the soil before application to control fruitborne rot with MB-2. Crop refuse and other debris should be dried out by plowing under grass and withholding water from it during the summer. This will increase penetration of MB-2. Do not apply MB-2 to soil where vines will grow within 24 months. Do not apply MB-2 to soil where vines will grow within 24 months.

BACKGROUNDS: Field tests have demonstrated that this is an effective method for preparing the surface soil for fumigation, especially in areas where a fumigant has dissipated through evaporation of the soil. The size of the prepared site is dependent upon the degree of soil compaction. Properly compacted soil requires preparation of a site the size of the "tractor bed" to which the site is to be grown.

For straight rows a single cut the width of the track bed, 6 feet deep and 8 feet long, in satisfactory straight rows at 2 feet of soil, place applicator tube at this level, complete MB-2 and release valve into the soil for 100 square feet per site. When fumigant has been released, remove tube and tamp soil lightly over opening to seal fumigant in the site.

CAUTION: This method is suitable in non-vegetative soils or soils that are lightly vegetated. Dig hole 6 feet deep with auger, backfill hole two feet, insert applicator tube, fill hole, and release MB-2 into the soil for 100 square feet per site. When fumigant has been released, remove applicator and tamp or compact soil with soil to prevent soil erosion of fumigant.

DOSE AND EXPOSURE TABLE FOR SOIL FUMIGATION WITH MB-2

Table with 5 columns: FINE CONTROL TREATMENT, TYPE OF SOIL, EXPOSURE TO SOIL TEMPERATURE, RATE (lb./A), and APPLICATION TIME (HOURS/DAYS). Rows include treatments for citrus and deciduous fruits, nuts, and vegetables, and for nematode control.

Not effective against mites, chiggers, and some species of slugs. Citrus Soil For Control of Phytophthora in P. on Sandy Soils. This is a preplant or replant treatment. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Use a minimum of 1-1 1/2 pounds per 100 square feet. Expose to fumigation for 24 hours covering treated area with a 4 mil. tarpaulin. MB-2 control extends to depth of 4 feet. Aerate 2 weeks before setting transplants in treated area. For use on strawberries, all Deciduous tree nutlets, melons, watermelons, cantaloupes, pumpkins, melons, tomatoes, cucumbers, squash, pumpkins, orange melons and their hybrids.

Methyl Bromide, Liquid UN 1062. POISON ACCEPTED. APR 27 1981. INFORMATION HAZARD. Includes a skull and crossbones symbol and a date stamp.

Veracarb: Seller certifies that the 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. We neither warrant nor otherwise warrant MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, in the use of this product contrary to label instructions or under abnormal conditions, or under conditions not necessarily known to us, and buyer assumes the risk of any such use.