

Unprotected persons until concentration of methyl bromide is determined to be less than S ppm, and the chloropicrin concentration is determined to be less than 0.1 ppm. Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response

Contaminated soil, water, and other cleanup debins is a toxic hazardous waste. Heport spill to the National Response Center (800-424-8802) if the reportable quantity of 1000 lbs is exceeded.

# WARRANTY

Seller makes no warranty, expressed or implied, concerning 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 and/or handling is contrary to label instructions.

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PRECAUTIONARY STATEMENTS

## DANGER

EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER Under the Pederal Intercticide, PRESSURE, DO NOT BREATHE VAPOR. INHALATION MAKe amended to an inde Act. BE FATAL OR CAUSE SERIOUS ACUTE ILLNESS OR DE PARAMETER Under LAYED LUNG, NERVE OR BRAIN INJURY. LIQUID OR VAPOR CAN CAL SE 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.  $C_1$  oropicrin may be irritating to the upper respiratory tract, and even at low levels can cause painful irritation to uppers, producing tearing. If these symptoms occur, leave the fumigation area immediately.

### NOTE TO FHYSICIAN

Early symptoms of overexposure are dizziness, headache, nousea 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 period of no exposure. Blood bromide levels suggest the occurrence, but not the degree, of exposure. Tre, ment is symptomatic. See the product MSDS for additionat information.

## **RESPIRATCRY PROTECTION**

If the concentration of methyl bromide in the working area, as measured by a suitable detector, does not exceed 5 ppm  $(20 \text{ mg}/\text{m}^3)$ , no respiratory protection is required.

This detection method requires a small hand held pump and methyl bromide detector tubes. The air sample is drawn through two small chemical reagent tubes in which the methyl bromide is decomposed by an oxidizing agent to liberate bromine. The bromine concentration is then indicated by color formed in reaction with O-tolidine. The detector tubes are capable of measuring methyl bromide concentrations of 2.5-500 ppm. Methyl bromide detector tubes and pumps listed below are available from safety supply distributors.

- 1. Sensidyne/Gastec pump, part number F-7010657, detector tube #136.
- 2. Draeger pump, part number CH 304, detector tube #67-28211.
- 3. Matheson-Kitagawa pump, part number 8014K, detector tube #157Sb.

If the 5 ppm, methyl bromide and the 0.1 ppm chloropicrin concentration is exceeded at any time, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator.

The Matheson-Kitagawa pump (8014) and detector (11-be # 172) is capable of measuring chloropicrin concentration of 0.1-15 ppm.

After fumigation, treated areas must be aerated until the level of methyl bromide is below 5 ppm and chloronicrin is below 0.1 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.

## **PROTECTIVE CLOTHING**

Wear loose **the second second** 

## STORAGE AND DISPOSAL

#### STORAGE AND HANDLING

Store in dry, cool, well-ventilated area under lock and key. Post as a pesticide storage area. Do not curtur inate water, food, or feed by storage or disposal.

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, hipoks, tongs or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or citie, device to which the cylinder can be firmly secured.

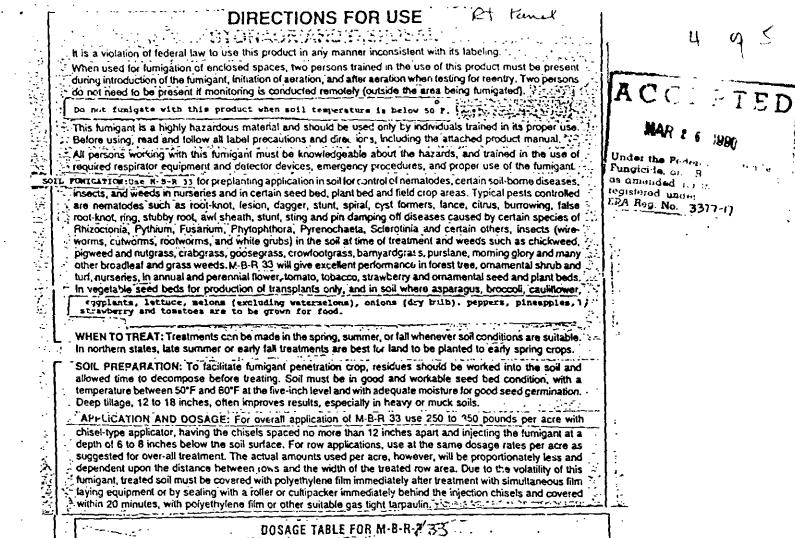
Do not remove valve protection bonnet and safety cap until umr ediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use.

#### CONTAINER DISPOSAL

When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to reful cylinders. Do not use cylinders for any other purpose Follow registrant's instructions for return of empty or partially empty cylinders.

#### PESTICIDE DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide is a violation of Ecderal 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 representatives at the nearest EPA Regional Office for guidance.



Pest Control Desired	TYPE OF SOIL OR MATERIAL	Dosage	Minimum Exposure Time*	Aeration Time Before Planting**
	Turt Renovation: Lawns, parks, golf greens, athletic fields and other ornamental and recreational turt areas. Nonlood and Nonlaed Crop Areas: Seed and plant beds for tobacco, flowers, shade and forest trees, ornamental shrubs and vines, and other similar plants.	1 : 10 per 100 sa 11	24 hrs	45 hrs
Nemalodes, insects and weed seeds	His vegetables for production of transplants only. Permanent planting siles for tobacco, nowers, shade and forest trees, ornamental shrubs and vines and other similar plz ts.			
	Food Crop Areas: Field soils for planting of asparagus, broccoli, cauliflower, selons (except! waterselon), eggplants, lettuce, 7 onions (dry bulb), "peppers", pineapples, strawberries, and tomatoes.	950 15 350 155 per acre	48 hrs	14 day
	Well rotted compost, manure and top soil.	1/2 lb, per ci yd	24 hrs	72 h/s
	Mulching straw or hay.	1 1/2 Ib cer 6 bales	48 hrs	215.5
Damping-off orçanisms such as: Pythium Rhizoctonia Fusanum	Turl Renovation; Some sites as listed above. Nontood and Nonfeed Crop Areas; Same plants as listed above.	2 10 per 100 sq ft	24 hrs	<ul> <li>V2 brz or</li> <li>thrper</li> </ul>
	food Crop Aress: Same crops as listed above.	ISD 15 ISD 15s Fer acre	48 hrs	1' days
	Well rotted compost and manure	1 lb per cu yd	24 hrs	72 nrs or longer
Citrus, butrowing, root knot nematodes Phytophthera and Armillana root rot organisms,	Protecting replacement trees by replant site fumigation of sandy and fine-textured clay soil in peach and almond orchards and citrus proves.	2 % per 100 sq t	48 hrs	14 🖬 Cays
* Exposure and aerabor ** Soli m which plants a	tomes should be doubled if soil temperature is between 50°F and 50°F. 14-2 re to be set should be aerated for a neek to ten days.		L	tela= Strf.

Crop seeds may be planted after 96 hours following the end of exposure period. Wi ..... polyethylene film is to be utilized as a mulch, aeration is accomplished by making holes in the film and planting the crop directly through the film,

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#### DIRECTIONS FOR USE (Continued)

GREENHOUSES: The use of methyl bromide and chloropicrin in enclosed spaces presents a potential hazard to humans and plant life. Before fumigation, train all personnel involved in lumigation (including use of safety equipment). Never fumigate alone. Follow USE PRECAUTIONS. Follow directions for row application with doors open and fans running. After application and tarpin J, secure and post the structure to prevent unprotected persons and domestic animals from entering. After the exposure period, open doors and turn on fans prior to removing tarpaulins. Do not allo 4 entry into freated areas without respiratory protection until methyl bromide level is below 5 ppm and chloropicrin is below 0.1 ppm. Follow directions for AERATION and USE PRECAUTIONS.

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## USE PRECAUTIONS

Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid or high in organic matter. To avoid injury to plants, fertilize as indicated by plant nutrient tests made after tumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only those containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65°F. Certain crops are tolerant to ammonia, therefore the above rule does not apply to them. Liming highly acid soils before tumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

NOTE: To avoid the possibility of exceeding residue tolerances, food crops other than those shown on label should not be grown to maturity in soil treated with M-B-R 33 soil fumigant. Transplant such crops to untreated soil or to soil treated according to registered pesticide uses.

Vapors of M-B-R 33 are extremely irritating to the eyes. Provide good ventilation when applying or transferring it to other containers. If the 5 ppm methyl bromide and the 0.1 ppm chloropicrin concentration is exceeded at any time, all persons in the fumigation area must wear a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator.

M-B-R 33 should not be applied when there is little or no air movement nor when there is an atmospheric inversion. Do not apply to areas adjacent to fields where valuable crops are growing or near buildings inhabited by humans or livestock.

#### PRIOR TO FUMIGATION

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

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

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

Handle this furnigant in the open, with the operator "up wind" from the container where there is good ventilation. Check furnigant pressure system for leaks before beginning operation.

Two trained persons must be present during introduction of the furnigant.

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 cleaned from the field before starting furnigation.

#### **DURING FUMIGATION**

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

Do not lift injection shanks to turn at the end of a pass until furnigant has drained from system following closure of shutoff valve.

It trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must be covered by lifting 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.

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

Two trained persons must be present during removal of the tarpaulin.

### PLACARDING OF FUMIGATED AREAS

The applicator must placard or post all entrances to the lumigated area with signs bearing, in English and Spanish:

- 1. The signal word DANGER/PELIGRO and the Skull & Crossbones symbol.
- 2. The statement, Area under fumigation, DO NOT ENTER/NO ENTRE.
- The date of fumigation.
   Name of fumigant used.
- 5. Name, address, and telephone number of the applicator.

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 the chloropicrin concentration is below 0.1 ppm.

#### FOR SPILL OR LEAK DURING FUMIGATION

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. Approach from upwind to make necessary repairs. Do not reenter area without respiratory protection until a spill has evaporated or a leak has been fixed.

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EPA Reg. No. 3377-17	1 47

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