

RESTRICTED USE PESTICIDE

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

M-B-R-2R

FUMIGANT

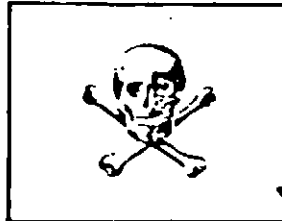
For the Treatment of Soil to Control Certain Weeds, Grasses, Nematodes and Insect Pests

ACCEPTED
DEC 12 1984
EPA Reg. No. 3377-18

ACTIVE INGREDIENTS:

METHYL BROMIDE 98%
CHLOROPICRIN 2%

KEEP OUT OF REACH OF CHILDREN



DANGER

POISON

SEND FOR A DOCTOR IMMEDIATELY
IN CASE OF EXPOSURE

STATEMENT OF PRACTICAL TREATMENT

IF INHALED — Carry Patient To Fresh Air. Call Physician At Once. Make Sure Patient Can Breathe Freely. Keep Patient Warm. Give Artificial Respiration If Breathing Has Stopped. Oxygen Should Be Administered Only By Qualified Personnel.

IF ON SKIN — Immediately Remove All Contaminated Skin Covering Including Shoes, Clothing And Adhesive Or Other Bandages. Wash Skin Thoroughly With Soap And Water. If Irritation Or Blisters Develop, Get Medical Attention. Do Not Reuse Shoes Or Clothing Until Free Of All Contamination.

IF IN EYES — Flush Immediately With Plenty Of Water For At Least 15 Minutes And Get Medical Attention.

NOTE TO PHYSICIAN — Keep Patient At Rest And Under Observation For 24 To 48 Hours.

ETHYL CORPORATION
451 Florida Street
Baton Rouge, LA 70801

Ethyl Chemicals Group

In case of an emergency endangering life or property involving this product, call collect (504) 314-7147

EPA Reg. No. 3377-18
EPA Est. No. 3377-AR-1

NET CONTENTS LBS.

Handwritten notes:
18 pt [DANGER
12 pt] KEEP OUT OF REACH OF CHILDREN
18 pt] POISON
in red
in red

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS

DANGER

This fumigant is a highly hazardous material and must be handled with care only by those individuals experienced with its proper use. Consult your dealer representative or Ethyl Corporation for correct procedure. Before using, read and follow all label directions and product literature specific to your particular requirements.

EXTREMELY HAZARDOUS LIQUID AND VAPOR
UNDER PRESSURE
INHALATION MAY BE FATAL OR CAUSE
DELAYED LUNG INJURY
LIQUID AND VAPOR CAUSE BURNS WHICH
MAY BE DELAYED
OBSERVE THE FOLLOWING PRECAUTIONS:

DO NOT BREATHE VAPORS:

M-B-R-2R has no appreciable odor. Use only with adequate ventilation. Do not enter a treated area without respiratory protection unless you have checked the area with a Halide Gas Detector to make sure dangerous concentrations of gas are not present. If there is any doubt, wear a gas mask.

RESPIRATORY PROTECTION

A full face gas mask with an air supply (tank or airline) is recommended or wear a full face gas mask with black canister meeting specifications jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provision of 30, CFR, PART 11, where the vapor concentration is known to be under 2% by volume (5 lbs per 1000 cu ft). Read and follow the gas mask manufacturers recommendations, note carefully those regarding canister use periods. Destroy used canisters by crushing. Canister must never be depended upon as an identifying agent when a canister gas mask is used.

DO NOT GET IN EYES, ON SKIN OR ON CLOTHING.

1. Should shoes or clothing become contaminated, remove at once and do not wear again until aired outside for several days.
2. Do not wear gloves of any type, ordinary, rubber protective clothing or boots.
3. Do not spill or discharge contents outside of areas confined for treatment.
4. Wear safety glasses when dispensing M-B-R-2R.
5. Keep cylinders away from heat sources, such as heating devices.
6. Always have an assistant to aid in case of accidents when releasing fumigant from inside of a structure. Wear appropriate respiratory protection.
7. Keep animals, children and unauthorized people away from area under treatment until area is certified free of M-B-R-2R.

WARNING SIGNS

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

STORAGE AND DISPOSAL

STORAGE

Do not contaminate water, food or feed by storage or disposal. Do not store with clothing. Storage areas should be:

- (1) Secured by lock and key
- (2) Posted as pesticide storage
- (3) Away from dwellings and work areas
- (4) Dry and cool
- (5) Well ventilated

DISPOSAL

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, 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 representatives at the nearest EPA Regional Office for guidance.

SPILL OR LEAK PROCEDURE

Evacuate affected area, use respiratory protection and correct problem. Move cylinder outdoors or to an isolated location. Allow to evaporate. Do not permit re-entry to area until free of fumes.

12 pt

18 pt

12 pt

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12 pt

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DIRECTIONS FOR USE

It is a violation of federal law to use this product in any manner inconsistent with its labeling.

APPLICATION AND PLANTING

WHEN TO TREAT Treatment can be made in the spring, summer, or fall whenever soil conditions are suitable. In northern states, late summer or early fall treatments are best for land to be planted in early spring crops.

SOIL PREPARATION To facilitate fumigant penetration, plant refuse should be worked into the soil and not allowed to decompose before tilling. Soil must be in good workable seed bed condition, warm, preferably 50 to 80°F at a depth of two inches, with moisture adequate for good seed germination. Do not treat if the soil temperature is below 45°F at the five inch level. Pre-treatment tillage to a depth of 12 to 18 inches often improves results, especially in heavy or stony soils.

APPLICATION: A special manure-type applicator is used to inject **M-B-R-2R** fumigant about 3-5 inches into the soil. Due to the volatility of the fumigant, treated areas must be covered with polyethylene film or other suitable tarpaulin immediately after application. Lay film manually or with a mechanical tarp layer. **M-B-R-2R** fumigant is toxic to plants. Do not apply to soil containing roots of desirable plants. The edges of the tarpaulin cover should be at least 18 inches away from the foliage drip-line of desirable plants.

NOTE: While in the container, **M-B-R-2R** fumigant is a liquid under pressure. It turns to gas when released and must be confined under a gasproof cover or other plastic or coated fabric. Both the liquid and the gas are poisonous and may cause burns on contact. Observe all Precautionary Labeling and Use and Handling Precautions given on the label.

EXPOSURE PERIOD AFTER APPLICATION: For soil temperatures above 60°F, leave the treated soil covered for at least 48 hours to insure maximum fumigant diffusion. For soil temperatures below 60°F, extend the exposure period to 3 or 4 days for best results. Good results are obtained from fall applications where the covers are left on all winter.

Dosage Table for **M-B-R-2R**

Pest Control Desired	TYPE OF SOIL OR MATERIAL	Dosage	Minimum Exposure Time(1)	Area on Time Before Planting(2)
Nematodes, weevils and seed weevils	Turf Renovation Lawns, parks, golf greens, athletic fields and other ornamental and recreational turf areas	1 1/2 lb per 150 sq ft or 430 lb/acre	24 hrs	48 hrs
	Nonfood and Nonfood Crop Areas. Seed and plant beds for tobacco, flowers, shade and forest trees, ornamental shrubs and vines, and other similar plants. Also vegetables for production of transplants only			
	Perennial planting sites for tobacco, flowers, shade and forest trees, ornamental shrubs and vines and other similar plants			
	Well rotted compost, manure and top soil	1/2 lb per cu yd	24 hrs	72 hrs
	Mulching straw or hay	1 1/2 lb per 6 bales	48 hrs	24 hrs
Damping off organisms such as Pythium, Rhizoctonia, Fusarium	Turf Renovation. Same sites as listed above. Nonfood and Nonfood Crop Areas. Same plants as listed above	3 lb per 150 sq ft	24 hrs	72 hrs or longer
	Well rotted compost and manure	1 lb per cu yd	24 hrs	72 hrs or longer

(1) Exposure and rotation times should be doubled if soil temperature is between 30°F and 60°F. **M-B-R-2R** should not be used if temperature is below 30°F.

(2) Soil in which plants are to be set should be aerated for a week to ten days.

Consult the following calibration chart to apply 430 pounds of **M-B-R-2R** fumigant per acre with chisel on 12-inch centers and 45 pounds operating pressure at the manifold.

Tractor Speed	2 mph	2.5 mph	3 mph	3.5 mph
Orifice Diameter in inches	.027	.039	.043	.046

ADDITIONAL USES: **M-B-R-2R** fumigant may also be used for the control of insect pests infesting lumber and hopped or bulk grain in railroad boxcars or by treatment under a gas proof cover (tarpaulin). **M-B-R-2R** may also be used for preplanting application to control citrus nematode, burrowing nematode, root knot nematode, Armillaria root rot fungus, Phytophthora root rot and crown rot fungus in sandy and fine textured clay soil tree planting sites in peach and almond orchards and citrus groves.

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

6. Fumigation of spore in organic matter, such as much compost and heavily manured soil, may occasionally cause conditions which result in poor plant growth. These soils should be furrowed at least two months before planting.

7. To avoid the possibility of exceeding bromide tolerances, food crops other than strawberries and tomatoes should not be grown to maturity in soil treated with **M-B-R-2R** fumigant. Transplant such crops to untreated soil or to soil treated according to registered pesticide uses.

8. Under certain conditions **M-B-R-2R** soil fumigant may be corrosive to certain metals. DO NOT use containers or application equipment made of aluminum, magnesium or their alloys.

HANDLING PRECAUTIONS: **M-B-R-2R** fumigant is a highly toxic material and should be handled observing the following precautions:

1. Before using read all label directions and follow them carefully.
2. Do not breathe vapor.
3. Do not spill. If liquid **M-B-R-2R** spills on shoes or clothing, remove them at once and do not wear them again until aired outdoors for several days. Do not wear gloves when applying **M-B-R-2R**.
4. Keep animals and children away from plan while under treatment for at least 30 minutes after the cover is removed. The warning agent in **M-B-R-2R** irritating the eyes, will warn of leaks or spillage in handling and storage. Containers must never be depended upon as a warning agent when a gas mask is worn. It disappears in a few hours, however, and will not keep children or animals from creeping under the cover.
5. When fumigating inside buildings, keep doors and windows open at all times until after operation is completed. Good ventilation is essential both for safety and for satisfactory operation, particularly when fumigating compost and manure.
6. Store **M-B-R-2R** in a cool place away from dwellings.
7. Application of **M-B-R-2R** from outside the treated area often eliminates the need of a gas mask during application, however, one should always be at hand for emergency use.
8. Always have a helper to assist with application and any emergency.

USE PRECAUTIONS: **M-B-R-2R** has given excellent results with a wide variety of spots and plants. However, for reasons not clearly understood, plant growth has occasionally been unsatisfactory following treatment. Difficulty has been experienced with carnations, conifers, holly, multiflora roses, impatiens, and certain other ornamental plants and shrubs. Every grower should experiment on a small scale for at least a full season before extensive use for best results, observe the following precautions:

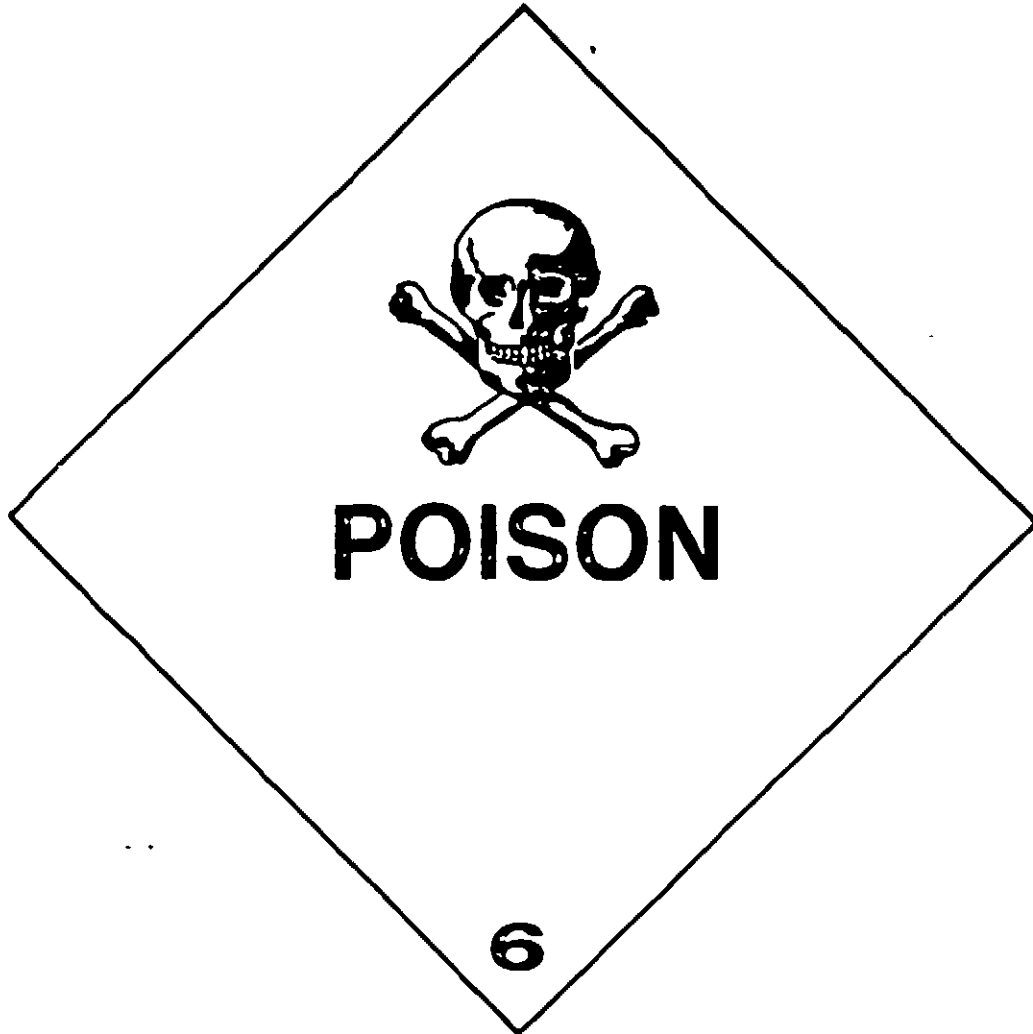
1. Do not treat soil when very cold, very wet or very dry.
2. **M-B-R-2R** is toxic to all plants. Do not fumigate too close to desirable vegetation. Keep the edge of the cover at least a foot away from the roots of desirable plants and water the soil zone thoroughly in area not covered by the tarp or polyethylene cover. If possible, pre-soak roots zone around desirable plants immediately adjacent to cover to help contain the gas under the cover.
3. Be sure treated soil or material is free from **M-B-R-2R** before seeding or using. Working it will help aeration.
4. Prevent contamination of fumigated areas. If necessary to avoid flooding, trench around them or build wooden or earthen dams. Clean your shoes carefully when walking from untreated to treated soil. Do not use tools, transplants or crop remains that may carry pests from unfumigated areas.

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**METHYL BROMIDE
LIQUID
UN 1062**



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.