

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.

1074

M-B-R 33

ACCE
Units
Fungicide and
as amended, for use
registered under
EPA Reg. No. 3377-17


SOIL FUMIGANT

**FOR PREPLANT CONTROL OF MANY SOIL-BORNE PESTS
IN PLANT BEDS AND NURSERIES**

ACTIVE INGREDIENTS:

- METHYL BROMIDE 67%
- CHLOROPICRIN 33%

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 Contaminator.

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

18pt

18pt

18pt
IN RED

IN RED

BEST AVAILABLE COPY

ETHYL CORPORATION
451 Florida Street
Baton Rouge, LA 70801



In case of an emergency endangering life or property involving this product, call collect (504) 344-7147

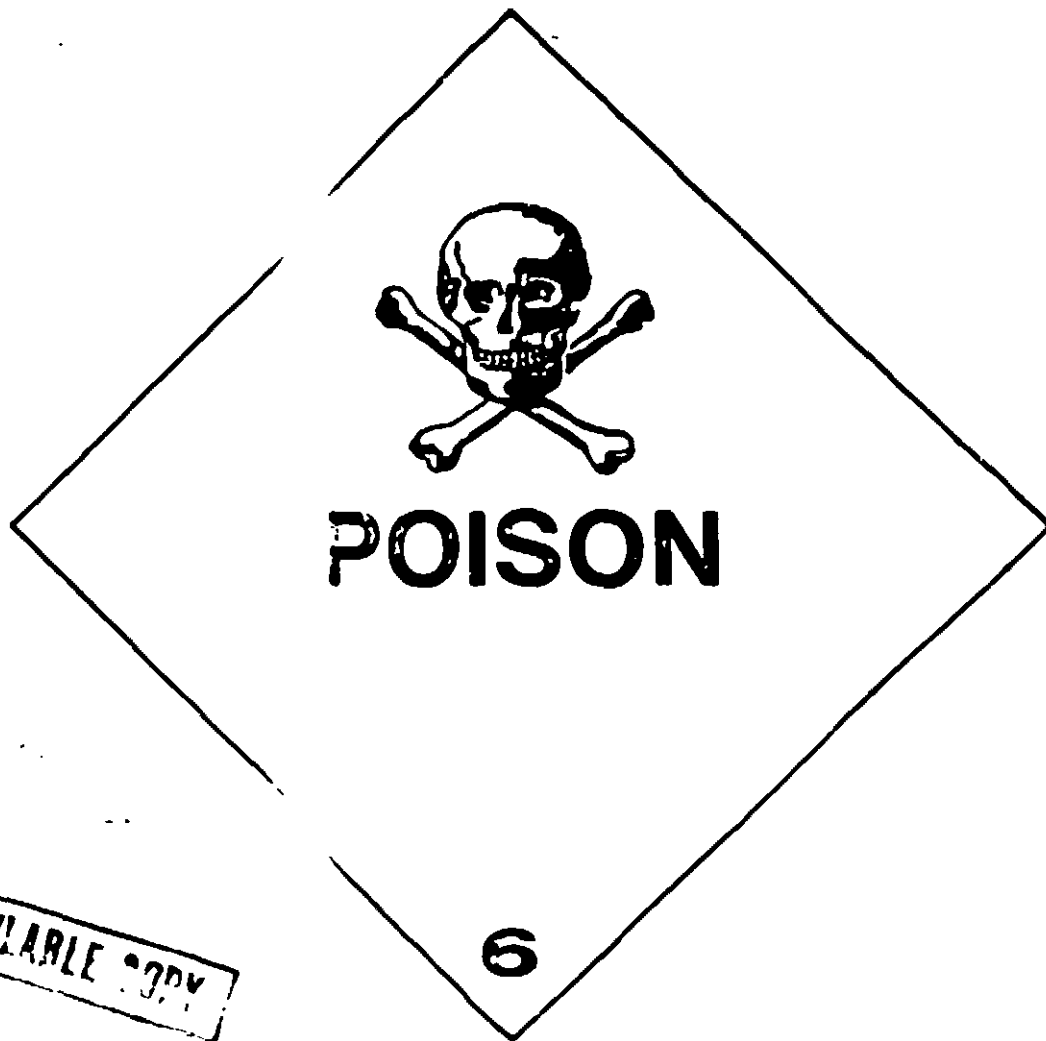
EPA Reg. No. 3377-17
EPA Est. No. 3377-AR-1

NET CONTENTS LBS.

22- 07 2e + 1 of Center Panel

METHYL BROMIDE

AND MORE THAN 2% CHLOROPICRIN
METHYL BROMIDE, LIQUID
N.A. 31



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.

Right of Center Panel

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DIRECTIONS FOR USE

12PT

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

Use M-B-33 soil fumigant for preplanting application in soil for control of nematodes, certain soil-borne diseases, insects, and weeds in nurseries and in certain food, plant and field crop areas. Typical pests controlled are nematodes such as root-knot, lesion, dagger, stunt, spiral, cedar, ferns, larva, cysts and pin damping off diseases caused by various species of *Heterodera*, *Ditylenchus*, *Fusarium* and certain others, insects (wireworms and white grubs) in the soil at time of treatment and weeds such as chickweed, pigweed and nutcrack, crabgrass, goosegrass, crabgrass, barnyardgrass, morning glory and many other broadleaf and grass weeds. M-B-33 will give excellent performance in forest tree, ornamental shrub and turf nurseries, in annual and perennial flower, tomato, tobacco, strawberry and ornamental seed and plant beds, in vegetable seed beds for production of transplants only, and in soil where strawberries and tomatoes are to be grown for food.

DIRECTIONS

USE TO TREAT: Treatments 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 to early spring crops.

SOIL PREPARATION: To facilitate fumigant penetration crop residues should be worked into the soil and allowed time to decompose before treating. Soil to be in good and workable seed bed condition, with a temperature between 50°F and 80°F at the five-inch level and with adequate moisture for good seed germination. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or hard soils.

APPLICATION AND DOSAGE: For overall applications of M-B-33 use 250 to 350 pounds per acre with chisel-type applicator. Before the chisel is used no more than 12 inches apart and injecting the fumigant at a depth of 6 to 8 inches below the soil surface. For row applications, use at the same dosage rates per acre as suggested for overall treatments. The actual amounts used per acre, however, will be proportionately less and dependent upon the distance between rows and the width of the treated row area. Due to the volatility of this fumigant, treated soil must be sealed after application by rolling or cultipacking immediately behind the injection chisels and then covered as soon as possible, preferably within 20 minutes, with polyethylene film or other suitable gas tight tarpaulin.

EQUIPMENT CALIBRATION: For best results, accurately calibrate fumigation equipment before application. Consult the Gasflow Calibration Chart to determine proper orifice size and pressure required to deliver the desired dosage. Calibrations are based on equipment which chisels spaced 12 inches apart.

AERATION: Remove tarpaulin after 24 to 48 hours, allow the soil to aerate for two weeks before planting. If, after this period, M-B-33 residues in the soil as indicated by color or by eye irritation on close examination, disc or plow the soil to help aeration.

GREENHOUSES: For production of tomatoes only. Follow directions for row application with doors open and fans running. After aeration and testing, secure and post the structure to prevent unprotected persons and domestic animals from entering. After the 4 to 48 hour exposure period, open doors and turn on fans prior to growing transplants. Follow directions for AERATION and all other use precautions.

DOSAGE CALIBRATION CHART

DOSAGE POUNDS PER ACRE	TRACTOR SPEED			
	2 MILES PER HOUR (170 ft. per min.)		3 MILES PER HOUR (170 ft. per min.)	
	ORIFICE DIAMETER IN INCHES	APPROXIMATE PRESSURE PSI	ORIFICE DIAMETER IN INCHES	APPROXIMATE PRESSURE PSI
200	.029	33	.029	33
250	.029	30	.035	30
300	.029	34	.035	30
350	.035	28	.041	28

USE PRECAUTIONS

Fumigation may temporarily raise the level of ammonia nitrogen on available basis in the soil. This is most likely to occur when heavy rates of the liquid and fumigant are applied to soils that are either cold, wet, and high in organic matter. To avoid injury to plants, fertilize as indicated by soil nitrogen tests made after fumigation. To avoid ammonia injury or nitrate stress in or upon to crops, avoid using fertilizers containing ammonia salts and urea (which containing nitrate nitrogen) until after the crop is well established and the soil temperature is above 55°F. Certain crops are tolerant to ammonia. However, the above rule does not apply to them. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

NOTE: To avoid the possibility of exceeding bromide tolerances, and crops other than strawberries and tomatoes should not be grown in soils that are treated with M-B-33 soil fumigant. Tolerant such crops are treated only in soil treated according to registered pesticide uses.

Vapors of M-B-33 are extremely irritating to the eyes. Avoid eye irritation when applying or transferring it to other containers. If it is necessary wear a full face gas mask with big G canister, recommended for use at a 2 pound and heavier vapors. Do not apply to areas adjacent to fields where aquatic crops are growing or near buildings inhabited by humans or livestock.

M-B-33 should not be applied when there is little or no air movement and when there is an atmospheric inversion, since unacceptable concentrations of vapors may drift to nearby areas, immediately cover treated areas with plastic tarpaulin. The tarpaulin should remain in place overnight and be removed during the daytime.

13PT

ENVIRONMENTAL HAZARD

The successful use of M-B-33 depends upon its containment during the maximum exposure period.

Seal the area immediately surrounding the fumigation site with a 6 mil polyethylene film for during exposure and aeration periods to establish that dangerous levels of M-B-33 are not present.

The high volatility of M-B-33 permits it to be vented from spaces where fumigated and to dissipate rapidly with no hazard to surrounding area with direct monitoring.

The product is toxic to fish and wildlife. Keep out of lakes, streams and ponds.

12PT

FLAMMABLE HAZARD

M-B-33 is practically nonflammable. There is no danger from fire or explosion in the concentrations. However, flame can change the concentration of some vapors and cause damage to crops in the areas being fumigated. Direct lighting and flames with heaters should be turned off.

Do not use containers or application equipment made of magnesium or other flammable alloys.

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

12 pt
1 1/2 pt

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:**

12 pt

DO NOT BREATHE VAPORS:

1. M-B-R 33 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 manufacturer's recommendations, note carefully those regarding canister use periods. Destroy used canisters by crushing. Chloropicrin 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.

2. Should shoes or clothing become contaminated, remove at once and do not wear again until aired outside for several days.
3. Do not wear gloves of any type, ordinary rubber protective clothing or boots.
4. Do not spill or discharge contents outside of areas confined for treatment.
5. Wear safety glasses when dispensing M-B-R 33.
6. Keep cylinders away from heat sources, such as heating devices.
7. Always have an assistant to act in case of accidents when releasing fumigant from inside of a structure. Wear appropriate respiratory protection.
8. Keep animals, children and unarmored people away from area under treatment until area is certified free of M-B-R 33.

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 fumigation, 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

12 pt

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 residue 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.