



WITH COMMENTS

MBC-33

SOIL FUMIGANT

U. S. D. A. Registration No. To Control Many Weeds, Grasses, Nematodes And Insect Pests In Plant Beds And Nurseries

DANGER: KEEP OUT OF REACH OF CHILDREN

READ COMPLETE PRECAUTIONS ON SIDE PANEL

Active Ingredients	100%
Methyl Bromide	67%
Chloropicrin	33%

A preplant soil fumigant for the control of nematodes, insects, and weeds in certain plant beds nurseries and certain field crop areas. Typical nematodes controlled are root knot, lesion, dagger, stunt, spiral, cyst formers, lance, sting pin, and certain other species; damping off disease caused by certain species of Rhizoctonia, Pythium, Fusarium and certain others. Such insects as wireworms and white grubs present in the soil at time of treatment are also controlled. Examples of weeds that are controlled include chickweed, pigweed, nutgrass, crabgrass, goosegrass, crawfoot grass, barnyard grass, purslane, wild morning glory, and many other broad leaved weeds and grasses. **M B C-33** soil fumigant will give excellent performance in forest tree, ornamental shrub and turf nurseries in annual and perennial flower, forest tree, tomato, tobacco, strawberry, and ornamental plant beds; as well as in other soil where strawberries and tomatoes are grown as food crops. Do not use more than 35 lbs. of **M B C-33** per acre on all soils to be used for strawberries and tomatoes grown as food crops.

DIRECTIONS FOR APPLICATION AND PLANTING

WHEN 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 must be in good workable seed bed condition, warm (50-80 degrees F. at the five-inch level), with adequate moisture for good seed germination. Do not treat if the soil temperature is below 45 degrees F. at the five-inch level. Deep tillage, 12 to 18 inches, often improves results, especially in heavy or muck soils.

APPLICATION: Apply at the rate of 250-350 lbs. per acre with a special chisel-type applicator to inject **M B C-33** soil fumigant about 5 inches into the soil. Due to the volatility of this fumigant treated areas must be covered with polyethylene film as soon as possible, preferably within 20 minutes of fumigant application. The film may be laid manually or mechanically with a tarp-layer.

EXPOSURE PERIOD AFTER APPLICATION

For soil temperatures above 60 degrees F., leave the treated soil covered with the plastic film for at least 48 hours before removal to ensure maximum diffusion. For soil temperatures below 60 degrees F., extend the exposure period to 3 or 4 days for optimum results.

WHEN TO PLANT AFTER THE EXPOSURE PERIOD

Crops can usually be seeded 2 to 3 days after the cover is removed. For transplants, aerate for 7 to 10 days. If rains or low temperatures (below 60 degree F.) occur during aeration, extend the aeration period. For tomato and strawberry transplants, aerate 2 weeks.

USE PRECAUTIONS

NOTE CAREFULLY: 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 fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use any fertilizers containing nitrate nitrogen until after the crop is well established and the soil temperature is above 65 degrees F. Certain crops are tolerant to ammonia therefore the above rule does not apply to them. Liming high acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity. Do not contaminate fumigated areas by walking from unfumigated to fumigated soil. If the treated area is in a location where flooding or washing is possible after rains, plow a furrow or make a trench around it for proper drainage. Wooden frames around the beds are also satisfactory for preventing this type of contamination.

M B C-33 soil fumigant is toxic to plants, therefore, do not apply to areas containing roots of desirable vegetation. The edge of the cover should be at least 18 inches beyond foilage drip line of living plants.

Some difficulty has been experienced through the use of **M B C-33** on soil planted to the following crops: conifers, salvia, snapdragon, geranium, multiflora roses, Burford's Chinese holly, as well as certain other plants. Fumigate on a small scale until safety to plants is determined under growing conditions.

Avoid reinfestation of treated soil. Do not use transplant tools, or crop remains infested with soil-borne plant parasitic pests and weed seeds. Clean applicator carefully before and after use.

Do not use containers or application equipment made of aluminum, magnesium, or their alloys, as under certain conditions **M B C-33** soil fumigant may be severely corrosive to such metals.

Store **M B C-33** soil fumigant in tightly closed cylinders in a cool open shelter away from dwellings and out of the reach of children.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

DANGER

HIGHLY VOLATILE -- CAUSES BURNS

VAPOR EXTREMELY HAZARDOUS

Do Not Breathe Vapor -- Keep Away From Heat

Do Not Get in Eyes, on Skin, on Clothing

In case of contact, immediately remove all contaminated skin covering, including shoes, clothing, adhesive or other bandage and wristwatches. Do not re-use shoes or clothing until free from all contamination. Wash skin thoroughly with soap and water, and flush eyes with water for at least 15 minutes. If irritation or blisters develop, get medical attention.

SEND FOR A DOCTOR IMMEDIATELY IN CASE OF ACCIDENT

ANTIDOTE: Place patient in fresh air, face downward, with head slightly below level of lungs. Keep warm. Give artificial respiration if breathing has stopped. Oxygen inhalation and stimulants of caffeine at doctor's discretion.

DO NOT SPILL OR DISCHARGE CONTENTS OUTSIDE GROUND COVER. In case of equipment trouble or other emergency where high concentrations of vapor may be encountered, wear a full face gas mask fitted with a black canister as approved by the U. S. Bureau of Mines for use with organic vapors.

Keep Out of Reach of Children

KEEP CHILDREN AND ANIMALS AWAY FROM PLOTS UNDER TREATMENT



HENDRIX & DAIL, Inc.

GREENVILLE, NORTH CAROLINA 27834

NET CONTENTS:

METHYL BROMIDE -- CHLOROPICRIN MIXTURE, LIQUID

Weight: 14.2 pounds per gallon

HENDRIX & DAIL, Inc.

GREENVILLE, NORTH CAROLINA 27834

Telephone 758-4263

Stokes Highway