

GENERAL FUMIGATION DIRECTIONS

For specific information on dosage, uses, insect problems, procedures, or safety precautions consult HYIELD-BROMINE.

This fumigant may be used in box cars, warehouses, fumigation vaults, food and cereal mills, ships and bulk grain storages. Do not fumigate if grain moisture is high, or if grain temperature is low (below 60° F.) or if there is excessive dockage.

INSECTS CONTROLLED Granary weevil, grain beetle, rice weevil, cadellies, mites, bran bugs, grain borers, mealworms, Indian meal moth. Kills insects in all life stages. Kills rats and mice in fumigated area.

SPACE FUMIGATION The usual dosage rate for each 1000 cu. ft. will range from 1 to 3 lbs., 12 to 24 hours exposure depending on tightness of structure and kind and amount of commodity in storage.

BULK GRAIN DOSAGE RATES

(General) 60° to 65° F.
Shelled corn 2 lbs. each 1000 cu. ft.
Wheat (similar) 3 lbs. each 1000 cu. ft.
small grains
Milo (grain sorghum) 4 lbs. each 1000 cu. ft.

CAUTION Extinguish all flames such as pilot lights and glowing heating units to avoid corrosion.

Do not use dosage higher than recommended as this may in some cases result in residues in foods of those permitted. Do not fumigate food products other than those specified in directions.

Remove the fumigant material as from building before fumigation as they may contain undesirable odors, fumes, high protein flour and cereals, insecticides, oil, oil-based paint, water, oil, or other liquids, or for containing compounds or synthetic detergents.

WARNING The black canister for protection against organic vapors should be used with a 10' length of hose when releasing gas in buildings and when opening up for aeration after fumigation. Use for detection of gas before entering buildings.



POISON

ANTIDOTE

• Remove victim to fresh air immediately. • Keep victim lying down and warm. • Give artificial respiration if breathing has stopped. • Call a physician immediately.

Warning: This is a highly toxic and volatile gas.

• Vapors can be fatal if inhaled. • Contact with molten metal can cause severe burns. • Do not get molten metal on skin or clothing. • In case of contact with skin, wash with soap and water for at least 15 minutes. Remove contaminated clothing and shoes immediately and flush with water. • Do not eat or drink. • Do not use contaminated food or drink. • Do not use contaminated water. • Do not use contaminated air.

Empty cylinders should be returned freight collect to HYIELD-BROMINE location from which this shipment was made. Consult local sales office if requested.

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.

98-2

CONTAINS 2% CHLOROPICRIN

ACTIVE INGREDIENTS:		By Wt.
Methyl bromide		98%
Chloropicrin		2%
Total		100%

⚠ DANGER ⚠

KEEP OUT OF REACH OF CHILDREN
POISON

NET WEIGHT _____ LBS

EPA REG. NO. 40926-1

NET WT. _____

This product is a restricted use pesticide and is not to be used by anyone other than a person who is certified by the state or federal government to use restricted use pesticides. It is not to be used in any manner other than that specified on the label. It is not to be used in any manner other than that specified on the label. It is not to be used in any manner other than that specified on the label.

40926-1

ACCEPTED

JUN 1 1978

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 40926-1

SOIL FUMIGATION DIRECTIONS

The following are general instructions on the use of 98-2 for soil fumigation to be used as preplanting soil treatment in seed beds or transplant beds for the production of transplants only.

SOIL FUMIGANT USES: 98-2 is an effective soil fumigant for the control of nematodes, weed seeds and certain soil-borne disease-causing fungi. In seed beds and potting soils it contributes to a maximum production of healthy, vigorous tobacco, vegetable transplants, nursery and forest tree seedlings. Where "slips," "cuttings," "spuds" or seeds are used as in greenhouses, nurseries, golf greens, lawns and ornamental gardens, healthy and vigorous rooting is established quickly.

SOIL PREPARATION: Plow or otherwise work soil to a fine tilth. Add fertilizer, manure or compost, work in well. Soil should be moist and friable for best results. Do not fumigate when soil is dry or excessively wet.

CAUTION: Do not fumigate when soil temperature is below 50° F. 98-2 use in vegetable beds is limited to the production of transplants only.

EXPOSURE PERIODS: Expose for 48 hours when soil temperature is between 50° F. and 60° F. and for 24 hours when above 60° F.

DOSAGE: For most purposes use 1 lb. of 98-2 for each 100 sq. ft. of soil to be treated.

WHEN TO PLANT: After the exposure aerate soil for 2 days before seeding or 5 to 7 days before setting out vegetative growth.

APPLICATION OF 98-2: The "cold method" consists of conveying the liquid methyl bromide through a plastic tube from the cylinder to the evaporating pan under the cover. Use one vaporizer pan for each 300 to 400 sq. ft. Anchor discharge tube in pan with temporary weight for easy withdrawal. Support polyethylene cover with mounds of dirt, inverted bottles or straw filled sacks. Anchor edges of cover in shallow trench. The resulting gas spreads over and penetrates the soil. Do not discharge the liquid directly on the soil.

The "chisel injection method" is applied with chisels spaced 12 inches apart to a depth of 8 inches. Seal fumigant with drag or cultipacker immediately behind chisels. Cover with a gas-proof tarpaulin. Remove tarpaulin after recommended fumigation period and aerate soil.

The field use of "hot gas" from cylinders in conjunction with mechanical laying of the polyethylene cover requires detailed description. For further information on this use inquire from your supplier or from Hy-Yield, Inc.

TREE AND VINE SITE FUMIGATION DIRECTIONS

CITRUS SOIL FOR CONTROL OF PHYTOPHTHORA AND CITRUS NEMATODES IN FLORIDA SANDY SOILS: This is a preplant or replant treatment. Trees which are planted in this treated soil will not have harvestable fruit for a period of at least 24 months. Apply with chisels spaced 12 inches apart to a depth of 6 to 8 inches. Seal fumigant with a drag or cultipacker immediately behind chisels. Apply at the rate of 1 lb./100 sq. ft. Cover with a 4-mil tarp and expose to fumigation for 96 hours. Will control disease to a depth of 4 feet. Apply 2 weeks before setting transplants in treated.

CONTROL OF ARMILLARIA MELLEAE (OAK ROOT FUNGUS) ON DECIDUOUS FRUITS AND NUTS, CITRUS AND VINEYARDS:

DOSAGE AND METHOD OF APPLICATION

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

1. After the soil has been properly prepared, inject 2 pounds of 98-2 per 100 sq. ft. by chisel application spaced 48 inches apart to a depth of 36 inches. Covered with adequate polyethylene film seal, it will control *Armillaria melleae* (oak root fungus) in grape vineyards, citrus groves, and all deciduous fruit tree orchards on a preplant or replant basis. Do not apply to soil where trees or vines will bear fruit within 24 months.

2. "DEEP INJECTION AUGER-PROBE TREATMENT" 36 inches or more below the surface of the soil will effectively control *Armillaria melleae* (oak root fungus) in grape vineyards, citrus groves, and all deciduous fruit tree orchards. Use one pound of 98-2 per injection site in lighter soils; two pounds of 98-2 in the textured soils. There is one (1) injection site per 100 sq. ft. (on a 10 ft. x 10 ft. grid pattern), with the injection in the center of the area to be treated.

PREPARATION FOR APPLICATION

To obtain the maximum control of *Armillaria melleae* with methyl bromide, the soil in the area to be treated must be dry to the depth requiring treatment. This can be accomplished by:

- planting Sudan grass in the Spring, irrigating until the grass has established itself, then do not irrigate any further;
- naturally by leaving infected plants in the area to be treated and letting weeds, etc., grow without irrigation.

When soil is dried, cut and remove grass, plants and debris, rip soil to a depth of 18 to 24 inches, and disc to smoothness.

EXPOSURE PERIOD - AERATION

1. To insure proper time-concentration relationship to control oak root fungus, we recommend a seven day period 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. Methyl bromide under these very dry conditions will not control most weed seeds. Some control may be observed, however, on deep rooted perennials such as morning glory (bindweed) and the flowers of Johnson grass.