

SOIL CHEMICALS CORPORATION

P. O. BOX 531 MORGAN HILL, CALIF.

METHYL BROMIDE 99.5%

EPA Reg. No. 08536-00012 AA

ACCEPTED FOR USE ONLY BY PROFESSIONAL FUMIGATORS

ACTIVE INGREDIENTS:	100%
Methyl Bromide	99.5%
Chloropicrin	0.5%

Methyl Bromide 99.5% is Methyl Bromide with 1/2% chloropicrin added as a warning against the hazard of over exposure to Methyl Bromide. Chloropicrin must never be depended upon as a warning agent when a gas mask is worn.

DANGER



POISON

KEEP OUT OF REACH OF CHILDREN. 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.

Do not breathe vapor. Use only with adequate ventilation. Do not get in eyes, on skin, on clothing. Do not use ordinary rubber protective clothing including gloves and boots. Keep away from heat.

SEND FOR A DOCTOR IMMEDIATELY IN CASE OF EXPOSURE

FIRST AID

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.

IN CASE OF CONTACT—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. For Eyes, Flush Immediately With Plenty Of Water For At Least 15 Minutes And Get Medical Attention. Do Not Reuse Shoes Or Clothing Until Free Of All Contamination.

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

DO NOT SPILL OR DISCHARGE CONTENTS OUTSIDE OF AREAS CONFINED FOR TREATMENT. KEEP CHILDREN AND ANIMALS AWAY FROM AREAS UNDER TREATMENT.

HANDLING PRECAUTIONS

Methyl Bromide 99.5% is a highly hazardous material and must be handled with care. Observe the following precautions.

1. Before using read and follow all label directions and literature pertaining to the use for which you plan to utilize Methyl Bromide 99.5%.
2. Do not breathe vapors.
3. Do not spill. If liquid Methyl Bromide 99.5% 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 Methyl Bromide.

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4. When using Methyl Bromide 99.5% safety glasses should be worn.
5. Keep animals, children and unauthorized people away from area under treatment and until the area is certified free from Methyl Bromide 99.5% as determined by a halide leak detector, (available from Bernzomatic Corp., Rochester, N.Y.).
6. When fumigating buildings, boxcars and other structures, apply the fumigant from outside the structure. Make sure all windows and doors are sealed and the area posted. Signs may be obtained from your local supplier of Methyl Bromide 99.5%.
7. Store Methyl Bromide 99.5% in a cool place away from dwellings.
8. Do not enter a treated area without a gas mask unless you have checked the area with a halide leak detector to make sure dangerous concentrations of gas are not present. If there is any doubt, wear a gas mask. A full face gas mask with an air supply (tank or airline) is recommended. Read and follow the gas mask manufacturers' recommendations. A full face gas mask with a fresh black canister meeting specifications of the U. S. Bureau of Mines for Organic vapors can also be used under certain circumstances where the vapor concentration is known to be under 2% by volume (5 lb. per 1000 cu. ft.) Canisters should be used for no more than one-half hour. Destroy canisters by crushing.
9. Obtain medical assistance at once in case of illness after exposure, and do not allow conditions which could accidentally cause further exposure until recovery is complete.
10. Always have an assistant and proper equipment when using fumigant to aid in care of accidents.
11. It is advisable to supply your physician with information on Methyl Bromide 99.5%. Literature is available from Manufacturing Chemist Associations, 1825 Connecticut Avenue, N/W, Washington, D.C. 20009 (Chemical Safety Data Sheet SD35).

SPACE FUMIGATION

DIRECTIONS FOR USE: METHYL BROMIDE 99.5% is intended for professional use in mills, warehouses, boxcars, fumigation vaults, flat or upright bulk grain storages for the control of all stored product insects including bran bugs, grain beetles, granary weevil, rice weevil, caddis, mites, and meal worms.

METHYL BROMIDE 99.5% may also be used for the control of structural insect pests such as dry wood termites lyctus, or powder post



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SEP 27 1974
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FUNGICIDE AND RODENTICIDE
ACTS Methyl Bromide 99.5%
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white

8536-12

DANGER



POISON

18 point printing

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12 point

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beetles, old house borer, death watch beetle, and such household pests as roaches, bedbugs, spiders, ants, millipedes, carpet beetles, clothes moths, mice, and rats, in dwellings, garages, barns, storage buildings and other structures infested with these pests.

RATES OF APPLICATION: For general fumigation at temperatures above 70° F. use 1-3 pounds Methyl Bromide 99.5% per 1,000 cu. ft. for 16-24 hours exposure time. Under adverse conditions, increase the dosage from 3½ to 3¾ pounds per 1,000 cu. ft.

For bulk grain fumigation rates:

GRAIN	POUNDS PER 1,000 CU. FT.
Shell corn	2
Wheat, barley, rye, oats, rice	3
Grain sorghum (Milo)	4

DANGER: Wear a full face gas mask with black canister meeting specifications of the U. S. Bureau of Mines for Organic Vapors when releasing gas in building. Do not wear gloves. Thoroughly aerate building after application. Do not fumigate food products other than those specified in directions and do not use dosages higher than recommended as this can, in some cases result in residues in excess of those permitted. The following materials can develop undesirable odor when fumigated and should be removed from building: rubber, and patent leather products, high protein flour and cereals, furs, horsehair products, iodized salt, synthetic detergents and any articles containing sulfur compounds. To avoid corrosion damage extinguish all flames and turn off glowing wire heaters. Do not use Methyl Bromide 99.5% in dairy, cheese, or meat plants, fresh fruits or vegetables. Methyl Bromide 99.5% should be used in compliance with local ordinances or regulations. Do not fumigate if (1) grain moisture is high, (2) grain temperature is low (below 60° F.) or (3) there is excessive dockage.

PREPARATION FOR FUMIGATION: Remove from the structure to be fumigated all persons, domestic animals, pets, fish, and growing plants. Remove from the premises or place in polyethylene bags (thickness not less than 4 mils.), all foods and medicants. Polyethylene bags must be sealed with masking tape or clamps. Extinguish all flames including pilot lights. Open all doors and accesses to crawl spaces, attics and sub-floors. For fabric pest control, open storage chests, drawers, and closets. Provide for forced air circulation of fumigant during the gassing period. For masonry or metal structures, caulk or tape all cracks and other air leaks, around doors, windows, vents. Wood structures and others that cannot be sealed effectively may be enveloped in a gass cover tarpaulin or polyethylene plastic sheet at least 4 mils. thick. Seal all edges of the envelope with moist soil or sand. Soak soil with water one foot from the edge of the envelope to a depth of 6 inches.

FUMIGATION: Release Methyl Bromide 99.5% from outside into the structure to be fumigated using a ¼ in. copper or polyethylene tube. Fasten the tubing outlet to an evaporating pan to prevent dripping or splashing over the interior walls and furnishings. A spark-proof electric fan may be used during the gassing and for 30 minutes thereafter to accelerate distribution of the gas. Relative to the complexity of the structure to be fumigated, more than one release location may have to be set up. Do not apply gas directly to metal surfaces because of the corrosive nature of Methyl Bromide 99.5% on metals.

AERATION: At the end of the exposure period, remove all seals, open all windows, and doors. Use ventilation fans to remove fumigant from dead air pockets. Allow 24 hours for ventilation. Check for completeness of aeration with a suitable fumigant monitor such as a Halide Gas Detector.

HALIDE GAS DETECTOR: Color of the flame is an index of the concentration of methyl bromide present. The following tabulated information provides an index of flame color and concentration of methyl bromide present:

METHYL BROMIDE P. P. M.	LB/1000 CU. FT.	FLAME COLOR IN DAYLIGHT*
0	0	None
25	0.00625	Faint green fringe
50	0.0125	Moderate green
125	0.031	Green
250	0.0625	Strong Green
500	0.125	Strong blue-green fringe
800	0.20	Strong blue-green
1000	0.25	Blue

*Nighttime color is identical, but allowance must be made for the bluish cast of the flame itself.

PREPLANT SOIL FUMIGATION

METHYL BROMIDE 99.5% may be used as a preplant soil fumigant for land in which plants may be grown for nonfood and non-feed crop uses. These uses are for seed and plant beds, nurseries and permanent planting sites for tobacco, lawns and other ornamental and recreational turf areas, forest and shade trees, ornamental flowers, vines and shrubs and other similar plants. Methyl Bromide 99.5% may be used in vegetable seed beds for production of plants that are later transplanted in untreated soil or soil treated to label directions for registered products, and in soils where tomatoes, strawberries, grapes, and citrus, peach and almond trees are to be grown for food.

APPLICATION: SEED AND PLANT BEDS (Plants grown for transplanted)

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APPLICATION: SEED AND PLANT BEDS (Plants grown for transplanting)

Prior to planting apply Methyl Bromide 99.5% at the rate that appears in the dosage table by means of tractor mounted chisels spaced 12 inches apart and at a depth of 5-8 inches below the soil surface. To seal fumigant after application cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to fumigation, the soil should be in seed bed condition with adequate moisture to support seed germination. The soil should be worked to the depth it is desirable for the fumigant to penetrate. Plant refuse should be worked into the soil and time allowed for refuse to decompose before treatment.

TURF, NURSERIES AND FLORAL CROPS

Follow directions for seed and plant beds. If fumigating old turf the soil should be worked up before fumigating. It is desirable that the old turf be incorporated into the soil by rototilling, discing or plowing. Use rate and exposure time that is indicated in the dosage table.

TOMATOES AND STRAWBERRIES

Follow directions for seed and plant beds. Use rate and exposure time that is indicated in the dosage table.

GRAPES

Prior to planting apply Methyl Bromide 99.5% at the rate that appears in the dosage table by means of tractor mounted chisels spaced not more than 5½ feet apart. Inject the Methyl Bromide 99.5% at a depth of not less than 20 inches. To seal fumigant after application cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the proper exposure period indicated on the dosage table has passed. Prior to application the soil should be ripped to not less than thirty inches and the subsurface should be as dry as possible. Excess moisture will block deep penetration of the Methyl Bromide 99.5%. Peat soils and soils very high in organic content should not be fumigated to control armillaria mellea with Methyl Bromide 99.5%. Clay soils and soils that drain poorly may be dried out by planting sudan grass and withholding water from it during the summer. This will increase penetration of Methyl Bromide 99.5%. Do not apply Methyl Bromide 99.5% to soil where vines will bear within 24 months.





PEACHES, ALMONDS, AND CITRUS GROVES:

Prior to planting apply Methyl Bromide 99.5% at rate and exposure time that is indicated in the dosage table. To seal fumigant after application cover immediately with a gas tight tarpaulin by means of a mechanical tarp layer. The soil should be ripped to not less than thirty inches and the subsurface should be as dry as possible. Excess moisture will block deep penetration of the Methyl Bromide 99.5%. Peat soils and soils very high in organic content should not be fumigated to control *Armillaria mellea* with Methyl Bromide 99.5%. Clay soils and soils that drain poorly may be dried out by planting sudan grass and withholding water from it during the summer. This will increase penetration of Methyl Bromide 99.5%. Back hoeing and augering are alternative methods of applying Methyl Bromide 99.5% to the tree site. Attach a Methyl Bromide dispenser to the cylinder of Methyl Bromide 99.5% and to it attach a polyethylene applicator tube. The correct dosage can be measured with the dispenser and then applied through the tube.

BACK HOEING: Field tests have demonstrated that this is an effective method for preparing the replant site for fumigation, especially in areas where a hardpan has developed through compaction of the soil. The size of the prepared site is dependent upon the degree of soil compaction. Deeply compacted soil requires preparation of a site the size of the "planter box" in which the tree is to be grown. For stratified soils a single cut the width of the back hoe, 5 feet deep and 6 feet long, is satisfactory. Backfill site with 2 feet of soil, place applicator tube at this level, complete backfill and release entire dose of fumigant for 100 square foot tree site. When fumigant has been released, remove tube and tamp soil lightly over opening to seal fumigant in the site.

AUGERING:

This method is suitable in noncompacted soils or soils that are lightly stratified. Dig hole 5 feet deep with auger, backfill hole two feet, insert applicator tube, fill hole, and release entire dose of fumigant for 100 square foot tree site. When fumigant has been released, remove applicator and tamp or compact hole with soil to prevent too rapid escape of fumigant.

DOSAGE AND EXPOSURE TABLE FOR SOIL FUMIGATION WITH METHYL BROMIDE 99.5

PEST CONTROL DESIRED	TYPE OF SOIL and/or CROP	DOSAGE Do not treat when temp. below 50°F.	MIN. EXP.	AERATION TIME BEFORE PLANTING
Nematodes Weed Seeds and insects	Turf renovation, lawns and other recreational turf areas	400-500 #/ac.	24 hrs.	3 days
Nematodes weed seeds and insects	Nonfood and nonfeed crop areas: Seed and plant beds for tobacco, flowers, shade and forest trees, ornamental shrubs and vines, vegetables for production of transplants only, floral and nursery crops.	400-500 #/ac.	24 hrs.	3 days
Damping off diseases such as Pythium, Rhizoctonia, Fusarium	TURF RENOVATION: Same sites as listed above NONFEED AND NONFOOD CROP AREA: Same plants as listed above. Vegetables for production of transplants only, floral and nursery crops	800 #/ac.	24 hrs.	14 days if planted to transplants 3 days if seeded

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Nematodes Weed seeds and insects	Permanent planting for tomatoes and strawberries	240#/ac.	48 hrs.	3 days if seeded 7-14 days if vegetative growth set in treated soil
Crown rot fungus Armillaria root rot Phytophthora root rot Nematodes (root knot- citrus, lesion, pin, ring and dagger)	Grapes: For control of nematodes in light sandy soils and fine textured clay soils Control phytophthora in light sandy and fine textured clay soils Control armillaria in light sandy soils in fine textured clay soils	400-600#/ac. 600#/ac. 400#/ac. 600#/ac.	5-7 days	Treat in summer or fall and plant following spring
Armillaria root rot Phytophthora root rot Crown rot fungus Citrus nematodes Burrowing nematodes Root rot nematodes	PEACHES, ALMOND AND CITRUS GROVES Phytophthora root rot Armillaria root rot in sandy light soil and fine textured clay soil Citrus, burrowing and root knot nematodes TREE SITES Phytophthora root rot Armillaria root rot in light sandy soils and fine textured clay soil	425-650#/ac. 425-650#/ac. 425-650#/ac. 1 to 1½#/100 sq. ft. 1 to 1½#/100 sq. ft. 1 to 1½#/100 sq. ft.	5-7 days 5-7 days 5-7 days In warmer climates do not plant until 30 days after application	In colder climates treat in fall and plant following spring

CAUTION

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 plant roots, fertilize as indicated by soil tests made after fumigation. To avoid ammonia injury or nitrate starvation, or both, to crops, avoid using fertilizers containing ammonium salts and use only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 65° F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity. Do not use containers or application equipment made of magnesium, aluminum or their alloys.



WARNING

KEEP AWAY from FEED or FOOD PRODUCTS

POISON

CAUTION - DO NOT DROP

IF
LEAKING

DON'T

BREATHE FUMES
TOUCH CONTENTS
SWALLOW

This is to certify that the contents of this package are properly described by name and are packed and marked and are in proper condition for transportation according to the regulations prescribed by the Interstate Commerce Commission.

SOIL CHEMICALS
CORP.

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, express 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.

When this container is empty, return promptly to

SOIL CHEMICALS CORPORATION

2060 E. 220th St., Long Beach, Calif.

*Red ground.
acid product!*