



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JUN 3 0 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Maria Albert AMERIBROM, INC. 52 Vanderbilt Avenue New York, NY 10017

Subject:

Label Amendment Submission of 04/20/94 in Response to PR Notice 93-7

EPA Reg. No. 8622-39

50-50 PREPLANT SOIL FUMIGANT

## Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

#### WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

#### WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
   AND
- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

## DANGER

HIGH ACUTE TOXICITY

Extremely hazardous liquid and vapor under pressure. Do not breaths vapor Inhalation or ingestion may be fatal or cause serious acute illness or delayed lung or nervous system injury. Liquid or vapor can cause serious skin or eye injury which may have a delayed onset. Do not get liquid on skin, in eyes or on clothing

This product contains chloropictin, a volatile liquid tear gas. Chloropicrin vapor is very irritating this product commiss enviropectin, a violatile region less gas contropectin vapor is very initiative to the upper respiratory tract, and even at low levels can cause painful irritation to the nose and throat, and to the eyes, producing tearing, if these symptoms occur, leave the fumigation area immediately. Continued exposure after irritation is evident, or higher concentrations, may cause painful irritation to the eyes or temporary blindness, which may cause panic that may in turn lead to further accidents.

NOTE TO PHYSICIAN: Early symptoms of overexposure are intense fachrimation and irritation of mucous m imbrares, dizziness, headache, nausea and vomiling, weakness and collapse Lung edema may develop in 2 to 48 hours eller exposure, accompanied by cardiac triegitari-ties; these effects are the usual cause of death. Repeated overexposure can result in blurred vision, staggering gait and mental imbalance, with probable recovery effer a period of no exposure. Blood bromide levels suggest the occurrence, but not the degree of exposure

ENVIRONMENTAL HAZARDS: This posticide is toxic to wildlife. Do not discharge effluent containing this product into takes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluest containing this product to sewer systems without previously notifying the swage freshment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL HAZARDS: Do not use or store near heat, open flames, or sparking electrical

CHEMICAL HAZARDS: Do not use application devices incorporating matural nubber or aluminum or magnesium or their alloys, do not use water to clean them (Diesel oil is satisfactory)

AIR CONCENTRATION LEVEL The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/m²). The acceptable air chncentration for persons exposed to methyl bromide is 5 ppm (20 mg/m²). The air concentration level is measured by a direct reading detection device, such as a Matheson-Ritagawa.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:
Loose fitting ar well ventilated long-sleeved shirt and long pents
Shoes and socks
Full-face shield or safety gleeses with brow and temple shields (Un NOT wear
goggles.) When the acceptable air concentration level is shown a respirator is required, protect the eyes by wearing a full-face

No respirator is required if the air concentration level of chloropicrin in the working area is measured to be less than 0.1 ppm AND the air concentration level of methyl bromide in the working area is measured to be less than 5 ppm.

A respirator is required if the acceptable air concentration level of 0.1 ppm for chloropicrin OR 5 ppm for methyl bromide is exceeded at any time. The respirator must be one of the following types: (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

Under normal soil fumigation conditions, the air concentration level of chloropicrin in the working area will not generally exceed 0.1 ppm AND the air concentration level of methyl bromide in the working area will not generally exceed 5 ppm. Therefore, no respiratory protection is required. However, there is the possibility of a spill or leak during soil fumigation. Therefore, a respirator of a type specified above must be available and will be required for entry into an affected area in the event of a leak or spill.

- WORK SAFETY REQUIREMENTS

  1. Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing, or rubber book when handling. Methyl broaids and chloropicrin are heavier then air and can be trapped inside clothing and cause skin injury.
- Immediately after contemination remove outer clothing, shoes, and socks and do not reuse until thoroughly serated or ventilated. Keep such clothing and shows outdoors until thoroughly serated. Then follow the PPE manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE and work clothing separately from other laundry. Keep and laundry
- Discard clothing and other absorbent raterials that have been dranched or heavily contaminated with this product. Do not AH27/Rev. 1 Net contents: LBS/\_\_\_KGS.
- Follow PPS manufacturer's instructions cleening/meintaining protective eyewear and respirators.

#### USER SAFETY RECOMMENDATIONS

- Users should: wash hands before esting, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gete ineide. Then week thoroughly end put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

#### RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

For retail sate to and use only by Centified Applicators or persons under their direct supervision, and only for those uses covered by the Centified Applicators certification CEPTED with COMMENTS for EPA Later Data.

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# 50-50 Under the Federal lasse: . Fundicide, and Redomicid he amounted, for the po-manufect under KPA Reg PREPLANT SOIL FUMIGANT

FOR CONTROL OF NEMATODES, WIREWORMS, WEED SEEDS, FUNGUS DISEASES, GRUBS, AND SOIL-BORNE INSECTS.

ACTIVE INGREDIENTS:	By Wt.
METHYL BROMIDE	49.7%
CHLOROPICRIN	49 5%
INERT INGREDIENT	. 0.8%
TOTAL	100 096

**ACUTELY TOXIC CHEMICAL** 

14.0 LBS. Active Ingredient per gal. (Liquid in Cylinder)

## KEEP OUT OF REACH OF CHILDREN



#### PELIGRO

Si Usted no entiende la etiqueta, busque a alquien para que se la explique a Usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

#### STATEMENT OF PRACTICAL TREATMENT

In all cases of overexposure, get medical attention immediately. Take person to a doctor or emergency treatment facility.

If inheled - Gel exposed person to fresh air. Keep warm. Make sure person can breathe freely. If breathing has stopped apply artificial respiration. Do not give anything by mouth to an unconscious person.

If on skin-immediately remove contaminated clothing, shoez jewelry, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

If in eyes -Hold eyelids open and flush with a sleady, gentle stream of water for at least 15 minutes.

See side panels for additional precautionary statements.

EPA REG. NO. 8622-39

☐ EPA EST. NO. 10163-AZ-01 ☐ EPA EST. NO. 15296-IS-01 ☐ EPA EST. NO. 29516-FL-04 ☐ EPA EST. NO. 29516-NC-01

Distributed by:

## AmeriBrom, Inc.

52 VANDERBILT AVE. NEW YORK, N.Y. 10017 TELEPHONE: (212) 286-4000 FAX: (212) 286-4475

IN CASE OF EMERGENCY CONTACT:

Chemtrec (800) 424-9300

Ωľ AmeriBrom West

Call Collect: (805) 988-9719

(212) 286-4000 (N.Y.)

3/94

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY

For relief sale in and use only by Certified Applicators or persons under meir direct supervision and only for mose uses covered by the Certified Applicator's certification CENTREL CITE THREET.

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 ACTIVE INGREDIENTS:
 By W1.

 METHYL BROMIDE
 49.7%

 CHLOROPICRIN
 49.5%

 INERT INGREDIENT
 0.8%

 TOTAL
 100.0%

ACUTELY TOXIC CHEMICAL

14.0 LBS. Active Ingredient per gal. (Liquid in Cylinder)

KEEP OUT OF REACH OF CHILDREN



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It inhaled —Get exposed person to fresh air. Keep warm. Make sure person can breathe freely. If breathing has stopped apply artificial respiration.

Do not give anything by mouth to an unconscious person.
If on skin—immediately remove contaminated clothing, shoes, jewelry, and any other item on skin. Wash contaminated skin area thoroughly with soap and water.

If In eyes — Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

See side panels for additional precautionary statements.

FPA REG. NO. 8622-39

☐ EPA EST. NO. 10163-AZ-01 ☐ EPA EST. NO. 15298-IS-01 ☐ EPA EST. NO. 29516-FL-04 ☐ EPA EST. NO. 29516-NC-01

Distributed by:

#### IN CASE OF EMERGENCY CONTACT:

AmeriBrom, Inc. Chemirec (

52 VANDERBILT AVE., NEW YORK, N.Y. 10017 TELEPHONE: (212) 286-4000 FAX: (212) 286-4475 Chemtrec (800) 424-9300

or AmeriBrom West

Call Collect: (805) 988-9719 (212) 286-4000 (N.Y.)

n AB27/Rev. 1 Net contents: LBS./\_\_\_\_KGS. 3/94

### DIRECTIONS FOR USE

 $\alpha$  is a violation of Federal Law to use this product in a manner inconsistent with its labelling

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### PLACARDING OF FUMIGATED AREAS

The emplicator (or supervisor of the application) must placard attentrances to the fumigated area with signs hearing:

skult and crosshones symbol

'DANGER/PELIGRO,"

"Area under fumigation, DO NOT ENTER/NO ENTRE,"

. Methyl Bromide and Chtoropicrin Fumigants in use,"

the date and time of fumigation, and

name, address, and telephone number of the applicator.

Do not allow entry by unprotected persons into the fumigated area untif the signs are removed. Such signs must only be removed when the air concentration level of chloropictic is measured to be less than 0.1 ppm AND the air concentration level of methyl bromide is measured to be less than 5 ppm. Signs must remain legible during the entire posting perior

Only a certified applicator (or someone under his/her supervision) may remove warning signs at entrances to funtigated structures.

#### AGRICULTURAL USB REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

No instructions elsewhere on this labeling relieve users from complying with the requirements of the WPS.

#### ENTRY RESTRICTIONS:

Greenhouse Soil Fumigation: Entry (Including early entry that would otherwise he permitted under the WPS) by any person—other than a correctly trained and equipped handler who is performing a handling task permitted by the WPS—is PROHIBITED in the entire greenhouse (entire enclosed structure/huilding) from the start of application until 43 hours after application AND until the air concentration level of chloropicrin in the working area is measured to be less than 0 1 ppm AND the air concentration level of methyl bromide in the working area is measured to be to less than 5 ppm. Until the acration of the soil is complete (usually 10-14 days), non-handlers are permitted in the greenhouse ONLY while the air concentration level of chloropicrin in their working area remains less than 0.1 ppm AND the air concentration level of methyl bromide in their working area remains less than 5 ppm. It tarps are used for the application, non-handler entry is prohibited during tarp removal and until the air concentration level of chloropicrin in the working area is measured to he less than 0.1 ppm AND the air concentration level of other properties in the working area is measured to he less than 0.1 ppm AND the air concentration level of other properties in the working area is measured to he less than 5 ppm.

Outdoor Soil Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person of other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling is PROHIBITED from the start of application until 48 hours after application. In addition, if tarps are used for the application, non-handler entry is prohibited while tarps are heing removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting furnigant warning signs, as described in the "Ptacarding of Punigated Areas" section of this labeling. Post the furnigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

Greenhouses -- Soil or Space Fumigation: Post the fumigant warning signs outside all entrances to the entire greenhouse (entire enclosed structure/building).

structure/building).
Outdoor Soil Fumigation: Post the fumigant warning signs at entrances.
In treatful areas.

PPB FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD: PPE for entry that is permitted by this labeling is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

# BEST AVAILABLE COPY

MCCEPTED with COMMENTS to EPA Letter Dated
JUN 3 0 1994

Under the Federal Insmittede. Fundición, and Redestrido An an americada, for the particion and an anticipation of the participation of the participation of the second of

#### PESTICIDE STORAGE, HANDLING AND DISPOSAL

PESTICIDE STORAGE AND HANDLING: Store in a secure manner either outdoor: under amblent conditions or indoors in a well verifished eres. Post se a posticide storage, west.

Ou not contaminate water, lood or lead by storage. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, drapping or eliding. Do not use rope stings, hocks, tongs, or similar evides to unload cylinders. Temporal cylinders using hand truck, fork truck or other devices to which the cylinder can be firmly secured.

Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is nut in use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic, improper disposed of excess pesticide a violation of Federal Law. If these wastes cannot be disposed of by use according to let instructions, either contact your State Pasticide or Environmental Control Agency, or t Hazardous Waste representative at the nearest EPA Regional Office for guidance, or tolt registrant's instructions for return of partialty empty cylinders.

CONTAINER DISPOSAL: When cylinder is empty, close valve by turning clockwise until hand tight, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refff cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders.

#### RETURN OF CYLINDERS:

- (1) Cylinders are the property of the manufacturer or distributor where purchased and should be returned promotly by collect freight.
- (2) Do not ship cylinders without salety caps or valve protection bonnels
- (3) When a cylinder is partially full and there is no further requirement for the product, contact the manufacturer or distributor for return instruction.
- (4) Containers should never be retitled by the consumer or used for any other product or purpose

#### SPECIFIC DIRECTIONS FOR USE

This lumigant is a highly hazardous material and should be used only by Individuals tra-in its proper use. Before using, read and follow all label precaution and directions, inclu-those in the Manual for the Sale Handling and Application of Methyl Bromide Prod

All persons working with this lumigant must be knowledgeable ubout the hazards, and trained in the use of required respirator equipment and detector devices, emergency procedures, and proper use of the furnigant (see Product Manual No. AM-210).

Do not furnigate with this product when soil temperature is below 50°F at 6.6 inches

#### PRECAUTIONS FOR USAGE PRIOR TO, DURING, AND AFTER SOIL FUMIGATION

Specific instructions for application appears in the Manual for the Safe Handling and Application of Methyl Bromide Products No. AM-216

Prior to Fumigation: Post all treated areas with warning signs.

Comply with all local regulations and ordinances. Obtain as application permit from Agricultural Regulatory Agencies as regulatory.

Never furnigate alone. It is imperative always to have an assistant and proper protective equipment in case of accidents.

Drivers of application equipment must advise other workers of all precautions and procedures in addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to safety work with the tractor and driver white furnigating.

Handle this fumigent in the open, with the operator "up wind" from the container where there is good vertifation.

Check furnigant pressure systems for leaks before beginning operation

Two trained persons must be present during introduction of the furnigant.

When lumigating soil from a tractor, 5 gallons of water must be carried on the tractor and placed where it is readily accessible. In addition to water available on the tractor, at least 5 gallons additional water must be available from the service truck. This water must be potable and in containers marked "Decontamination water not to be used for drinking."

At trash should be cleared from the field before starting furnication

During Fumigation; This tumigant should not be applied when there is an atmospheric inversion. Since uncomfortable concentrations of chloropicrin may drift to nearby areas, immediately cover treated area with plastic tarpsulin for a minknum of 48 hours.

Do not lift injection shanks to turn at the end of a pass until fumigent has drained from system following closure of stretchi valve.

If trash is insovertently pulled by the shanks to the ends of the field when fumigating, it must be covered by litting the shanks, then covering the trash with polyathylene film before making the turn for the next pass.

When changing the cylinders, be certain they are turned off and fumigant system is not under pressure. Do not open the system when there are people or structures downwind.

After Funigation: Reep pets, livestock, and other domestic animals out of the treated area during application, during the exposure period as specified for applications in Directions for Use, and during removal of tarpaulin.

Two trained persons must be present during removal of terpaulins.

Specific instructions for application of 50-50 to field soils appear in the Product Manual No. AM-210.

BEST AVAILABLE COPY

Spill and Leak Procedures for Soil Fumigation

Is case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Evacuate everyone from the immediate area of the spill or leak. Wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not enter area without the required PPE until the spill has evaporated or the leak has been fixed.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-\$802) if the reportable quantity of 1000 lbs, is exceeded.

#### GENERAL INFORMATION

60-60, a prepient soil furnigent, is used for the control of soil-borne pasts such as:

Wireworms, June bestie lervae, white grubs and garden symphylian in the soil at the time of plenting.

Soll-borne fungi, including Verticillium, Fuserium, Pythium, Rhizocionia, Phytophthors, Pyrenochaeta, Scientinia, Scientium, Armillaria, and the clubroot organism.

Nemotades (such as Crigonemoides, Wenchus, Pratvienchus, Xiphinema and Paratylenchus, species)

Broadles and grassy weeds, such as annual bluegrass broom/spe, commismbsquarters, torpedograss, nutsedge, Bermudagrass and queckgrass at

50-50 is not effective against mallow, filares, dodder, some species of clover, and certain other hard seeded weeds. Crope listed below can be treated.

#### SOIL PREPARATION

Betters treatment the soil should be in condition for planting and with sufficient moisture to support seed germination. If furnigation is being done to control nutsedge, till the soil to a depth of at least 18".

#### **APPLICATION**

Apply with chieses spaced from 12" to 18" apart, and inject 50-50 to a depth of 5 to 8" below soll surface. Seal furnigant with a drag or outspacker immediately behind chieses and then cover with a gae-tight terpeulin.

#### DOSAGE TABLE

Crop To Se Planted ;	Lbs. 50-50 per Acre'
Strawberries	300-480
Tomatoes	300-480
Cauliflower	300-480
Broccoli	300-480
Muskmelons*	300-480
Реррега	300-480
Eggplants	300-480
Floral Crops*	400-540
Nursery Crops*	400-540
Plant & Sted Reds14	400-540

Row or bed applications may be made at the broadcast rates but the amount used will be proportionately less per acre depending on the row specing and width of treatment in the row or bed. The usual chiest specing for methyl bromide treatment is 12" and it is assumed that such chiest treats a 12" strip when injected at a dept. of 5 to 8".

Use the higher rates for nutsedge control.

Plants grown for transplanting.

Growing difficulties in treated soil may be experienced with Carnellons, Conliers, Delphiniums, Holly, Multiflors Ross, Salvis, Snapdragons, and certain other crops.

Por use on muskmetons, (all Cuoumie metone; excludes watermetons), cantaloupes, Persian metons, honeydew metons, ossebas, orenshave, mango metons and their hybrids.

After 48 hours remove tarpaulin and allow the solt to senate for two weeks before planting. Pepper seeds can be direct seeded through the use of plug mix after 72 hours.

CITRUS SOIL TREATMENT FOR CONTROL OF PHYTOPHYTHORA\* IN FLURIDA SANDY SOILS. This is a preplant or replant treatment. Do not apply to soil where trees will bear harvestable truit within 24 months. Use a minimum of 114 lbs./100 ag. it. Expose to tumigation for 96 hours owering freated area with a 4-mil terpeutin. Will control disease to a depth of 4 feet. Aerate 2 weeks before setting transplants in treated area.

Apply with chisels spaced 12 inches apart to a depth of 8 inches. Seat fumigant with a drag or putitips: for immediately behind chisels. Cover with a gas-proof tarpaulin. Remove tarpaulin after recommended fumigation period and sense soil for 2 weeks before planting. If odors persist, disc or plow the soil to seelel sensition.

Do not apply 50-50 when there is little or no air mov

Do not apply near buildings inhabited by humans or tivestock or in area adjacent to fields where valuable crops are growing.

\*Physophthors diseases controlled are root rot and crown rol

#### NOTE

Pollowing soil furnigation, undeelrable concentrations of chloropicrin may drift to nearby areas. If this occurs, immediately cover treated area with a plastic tarpaulin, Leeve tarpaulin on overnight and remove during the daytime. Recover the area if eye irritation indicates that the undeelrable concentration is continuing. These concentrations are most lifterly occurs in the evening or at night when the air is most lifterly to be state in movement. Do not make application of 80-80 when there is little or no air movement or there is an inversion

NOTE CAREFULLY: Following fumigation, the level of soluble salts and ammonia nitrogen may be raised. This is most likely to occur when heavy rates of fumigant and fertilizers are applied to solis that are either acid, well, cold, or high in organic matter. Fertilizers containing ammonium salts should not be used. Apply only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 85°F. In order to short ammonia injury, nitrate stanvetton, or both. After fumigation, fertilize as indicated by soil test to protect against injury to plant roots. It is best that highly acid soils be limed before application to stimulate nitrification and reduce the possibility of ammonia toxicity.

Spill and Lenk Procedures for Soil Fumigation

In case of a supture of hose or fitting while applying funtigant, immediately stop tractor and motor. Evacuate everyone from the immediate area of the split or leak. Wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling for entry into affected area to correct problem. Approach from upwind to make necessary repairs. Do not enter area without the required PPE until the spill has evaporated or the leak has been fixed.

Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if the reportable quantity of 1000 lbs. is exceeded.

#### GENERAL INFORMATION

50-50, a preplant soil furnigant, is used for the pontrol of soil-borne pests such as:

Wireworms, June beetle larvee, white grubs and garden symphylisn in the soll at the time of planting.

Boll-bome fungi, including Verlcitilium, Fusarium, Pythium, Rhizoctonia, Phytophthora, Pytenochesia, Scientinia, Scientium, Armitaria, and the clubroot organism. Pyrenochesta, Sr. Plasmodiophora.

Nemotades (such as Criconemoldes, Tylenchus, Pratylenchus, Xiphinema and Pararylenchus, species)

Broadles and grassy weeds, such as annual bluegrase broomrape, common lambsquarters, torpedograss, nutsedge, Bermudagrass and queckgrass at

50-50 is not effective against matiow, filarse, dodder, some species of clover, and certain other hard seeded weeds. Crops listed below can be treated.

#### SOIL PREPARATION

Sefore treatment the soil should be in condition for planting and with sufficient moisture to support seed germination. If furnigation is being done to control nutsedge, till the soil to a depth of at least 15".

#### **APPLICATION**

Apply with chisels speced from 12" to 18" epert, and inject 50-50 to a depth of 5 to 8" below soil surface. Seal furnigant with a drag or cultipacker immediately behind chisels and then cover with a gea-tight terpeutin.

#### DOSAGE TABLE

Crop To Re Planted ;	Lbs. \$0-50 per Acre¹¹
Strawberries	300 480
Tomatoes	300-480
Caulificwer	300-480
Broccoll	300-460
Muskmelons <sup>s</sup>	300-480
Peopers	300-480
Eggplants	300-480
Floral Crope <sup>4</sup>	400-540
Nursery Crops*	400-540
Plant & Saari Revists	400.840

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- \*Use the higher rates for nutsedge control
- Planta grown for transplanting
- Orowing difficulties in treated soil may be experienced with Carnations, Conifers, Delphiniums, Holly, Multiflora Rosa, Salvia, Snapdragons, and certain other crops.
- For use on musicmetons, (all Cucumis meto metons; excludes vestermetons), cantaloupes. Persian melons, honeydew melons, casabas, crenshaws, mango melons and their hybrids

After 48 hours remove tarpaulin and allow the solt to serate for two weeks before planting. Pepper seeds can be direct seeded through the use of plug mix after 72 hours.

CITRUS SOIL TREATMENT FOR CONTROL OF PHYTOPHTHORA" IN FLORIDA SANDY SOILS CITIES SUIL TREATMENT FUR CONTROL OF PHYTOM TREATMENT AFFORDATION SUILS. This is a preplent or replant treatment. Do not apply to solt where trees with bear harvestable fruit within 24 months. Use a minimum of 114 lbs./100 sq. ft. Expose to furnigation for 96 hours covering treated area with a 4-mil temperatin. Will control disease to a depth of 4 feet. Aerate 2 weeks before setting transplants in treated area.

Apply with chigote specod 12 inches spent to a depth of 8 inches. Seel furnigant with a drag or cuttipacker immediately behind chiests. Cover with a gas-proof terpaulin. Remove terpaulin after recommended furnigation period and sense soll for 2 weeks before planting. If odors persist, disc or plow the soll to assist sensition.

Do not apply 50-50 when there is little or no air movement.

Do not apply near buildings inhabited by humans or livestock or in area adjacent to fields where valuable crops are growing.

"Physophthora diseases controlled are root rol and crown rol.

#### MOTE

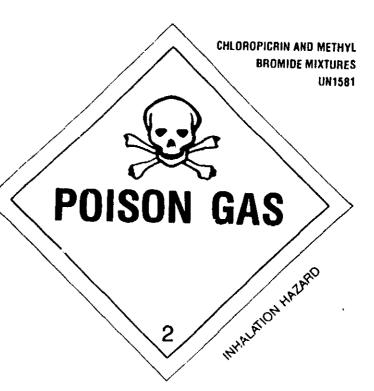
Pollowing soil furnigation, undesirable concentrations of chloropiorin may drift to nearby areas. If this occurs, immediately cover treeted area with a plastic tarpeulin, Leave tarpaulin on overnight and remove during the deytime. Recover the area if eye irritation indicates that the undesirable concentration is continuing. These concentrations are most likely to occur in the evening or at night when the six is most likely to be static in movement. On not make application of 50-50 when there is little or no air movement or there is an inversion condition in the atmosphare.

NOTE CAREFULLY: Pollowing funigation, the level of soluble salts and ammonia nitrogen may be raised. This is most likely to occur when heavy raise of funigant and fertilizers are applied to solis that are either acid, wet, cold, or high in organic matter. Fartilizers containing emmonium salts should not be used. Apply only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 69°F. In order to avoid emmonia injury, nitrate stanvestion, or both. After lumigation, fertilize as indicated by soil test to protect against injury to plant roots. It is best that highly acid soils be fired before application to stimulate nitrification and reduce the possibility of ammonia toxicity.

#### NOTICE

MATTICE

Many pesticidal chemicsts are poisonous and may leave a toxic residue on the plants to which they are applied. The U.S. Poof and Drug Administration has established maximum amounts of such pesticide that may remain on raw agricultural products at harvest, and it is the user's responsibility to see that there is no residue on such crops at harvest in excess of these amounts. The "Furnigation Directions" are bessed on the best available information, and if followed carefully should not leave excessive residues at harvest. However, Ameribrom, inc. assumes no responsibility as to their accuracy nor for any loss due to excessive residues.



## **BEST AVAILABLE COPY**

Warranty: Seller warrants that the product conforms to its chemical description and is reasonably warranty: series was the product conforms on themscall description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor 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 lorseeable to seller, and buyer assumes the risk of any such use. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions.