



PM 32 58266-03 Page 1 of 15
file

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

NOV 8 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

TOM DUAFALA, Ph.D.
SHADOW MOUNTAIN PRODUCTS CORP.
P.O. BOX 1327
HOLLISTER, AC. 95024

Subject: Label Amendment Submission of 4/07/94 in Response to PR Notice 93-7
EPA Reg. No. 58266-03
METHYL BROMIDE 99.5%

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 subject to the comments reflected on the enclosed sheet. 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:

By the next label printing make all the specified changes to your labeling. 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.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

2 of 15

Page 2

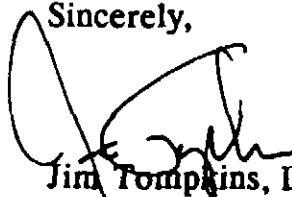
Submit the final printed labeling via the U.S. Postal Service to:

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

Dr. Tom Duafala
Shadow Mountain Products Corporation
Comments for: EPA REG. NO. 58266-03
Methyl Bromide 99.5%

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Under PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Modify current "Full-face shield or safety glasses with brow and temple shields (DO NOT wear goggles)" to read "Full-face shield or safety glasses with brow and temple shields when handling liquid product (DO NOT wear goggles)".

BEST AVAILABLE COPY

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

D A N G E R

**EXTREMELY HAZARDOUS LIQUID AND
VAPOR UNDER PRESSURE.**

**INHALATION MAY BE FATAL OR CAUSE
SERIOUS ACUTE ILLNESS OR DELAYED
LUNG OR NERVOUS SYSTEM INJURY.**

DO NOT BREATHE VAPORS.

**LIQUID OR EXCESSIVE 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 CHLOROPICRIN AS A WARNING ODORANT. CHLOROPICRIN MAY BE IRRITATING TO THE UPPER RESPIRATORY TRACT, AND EVEN AT LOW LEVELS CAN CAUSE PAINFUL IRRITATION TO THE EYES, PRODUCING TEARING. IF THESE SYMPTOMS OCCUR, LEAVE THE FUMIGATION AREA IMMEDIATELY.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to methyl bromide is 5 ppm (20 mg/m³), except that for entry into residential and commercial structures the acceptable air concentration level is 3 ppm. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Loose-fitting or well ventilated long-sleeved shirt and long pants
Shoes and socks

Full-face shield or safety glasses with brow and temple shields (DO NOT wear goggles).

When the acceptable air concentration level is above 5 ppm and a respirator is required, protect the eyes by wearing a full-face respirator.

No respirator is required if 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 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 TC-13F).

Under normal soil fumigation conditions, the air concentration level of methyl bromide in the working area will not generally exceed 5 ppm as a time-weighted average and 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, light clothing, rubber protective clothing, or rubber boots when handling. Methyl bromide is heavier than air and can be trapped inside clothing and cause skin injury.
- 2 If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an intolerable source of irritation.
- 3 Immediately after contamination, remove outer clothing, shoes, and socks and do not reuse until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors until thoroughly aerated. 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.
- 4 Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
- 5 Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put

**RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY**

For retail sale to and use only by Certified Applicators, or persons under direct supervision, and only for those uses covered by the Certified certification.

METHYL BROMIDE 90

**A FUMIGANT
FOR USE ONLY BY PROFESSIONAL FUMIGATORS**

ACTIVE INGREDIENT:
METHYL BROMIDE

INERT INGREDIENT:

CHLOROPICRIN, ODORIZING AGENT

TOTAL

This product weighs 14.4 pounds per gallon.

**SHADOW MOUNTAIN PRODUCTS
CORPORATION**

P. O. BOX 1327 - HOLLISTER, CA 95024

SPECIMEN

E.P.A. EST. 11220-CA-1, 2, 3, 4; FL-1
E.P.A. REG. NO. 58266-03

NET CONTENTS LBS.

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

PELIGRO: Si Usted no entiende la etiqueta, busque a alguien que explique a Usted en detalle. (If you do not understand the label, to explain it to you in detail.)

**IN ALL CASES OF OVEREXPOSURE
GET MEDICAL ATTENTION IMMEDIATELY
TAKE PERSON TO A DOCTOR OR TO AN
EMERGENCY TREATMENT FACILITY**

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Get exposed person to fresh air. Keep warm person can breathe freely. If breathing has stopped, give artificial respiration. Give oxygen if needed. Do not give anything by mouth to any person. Seek medical attention.

IF ON SKIN: Remove contaminated clothing and shoes.

THIS PRODUCT CONTAINS CHLOROPICRIN AS A WARNING ODORANT. CHLOROPICRIN MAY BE IRRITATING TO THE UPPER RESPIRATORY TRACT, AND EVEN AT LOW LEVELS CAN CAUSE PAINFUL IRRITATION TO THE EYES, PRODUCING TEARING. IF THESE SYMPTOMS OCCUR, LEAVE THE FUMIGATION AREA IMMEDIATELY.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to methyl bromide is 5 ppm (20 mg/m³), except that for entry into residential and commercial structures the acceptable air concentration level is 3 ppm. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kidgawa.

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Loose-fitting or well ventilated long-sleeved shirt and long pants

Shoes and socks

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Under normal soil fumigation conditions, the air concentration level of methyl bromide in the working area will not generally exceed 5 ppm as a time-weighted average and 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 boots when handling. Methyl bromide is heavier than air and can be trapped inside clothing and cause skin injury.
2. If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an intolerable source of irritation.
3. Immediately after contamination, remove outer clothing, shoes, and socks and do not reuse until thoroughly aerated or ventilated. Keep such clothing and shoes outdoors until thoroughly aerated. 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.
4. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
5. Follow PPE manufacturer's instructions for cleaning/maintaining protective eyewear and respirators.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

OBSERVE THE FOLLOWING PRECAUTIONS GENERAL PRECAUTIONS

1. Do not get in eyes, on skin, or on clothing.
2. Do not spill or discharge contents outside of areas confined for treatment.
3. Comply with all local regulations and ordinances.
4. It is advisable to supply your physician with information on Methyl Bromide. Literature is available from your dealer or distributor.
5. 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. (See Note to Physician.)

See Precautions Continued in Third Column

CHLOROPICRIN, ODORIZING AGENT
TOTAL

This product weighs 14.4 pounds per gallon

5 of 15

SHADOW MOUNTAIN PRO CORPORATION

P. O. BOX 1327 - HOLLISTER, CA 95

SPECIMEN

E.P.A. EST. 11220-CA-1, 2, 3, 4; F
E.P.A. REG. NO. 58266-03

NET CONTENTS L

KEEP OUT OF REACH OF CHILDREN

DANGER



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POISON

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IN ALL CASES OF OVEREXPOSURE
GET MEDICAL ATTENTION IMMEDIATELY
TAKE PERSON TO A DOCTOR OF
EMERGENCY TREATMENT FACILITY

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Get exposed person to fresh air. Keep person who has been exposed to breathe freely. If breathing has stopped, give artificial respiration. Do not give anything by mouth to an unconscious person. Seek medical attention.

IF ON SKIN: Immediately remove contaminated clothing, shoes, and items covering the skin. Wash contaminated skin area thoroughly with soap and water.

IF IN EYES: Hold eyelids open and flush with a steady stream of water for at least 15 minutes.

NOTE TO PHYSICIAN: Early symptoms of overexposure include headache, nausea and vomiting, weakness, and collapse. Symptoms develop within 2 to 48 hours after exposure, accompanied by cardiac effects. These effects are the usual cause of death. Repeated overexposure results in blurred vision, staggering gait, and mental imbalance, with recovery after a period of no exposure. Blood bromide levels suggest but not the degree, of exposure. Treatment is symptomatic.

See Side Panel For Additional Precautionary Statements

BEST AVAILABLE COPY

BEST AVAILABLE COPY

PESTICIDE CITY
Labels, or persons under their
control by the Certified Applicator's

DE 99.5%
RESIDENTIAL FUMIGATORS
99.5%
AGENT 0.5%
100.0%
per gallon.

PRODUCTS
ION
R, CA 95024

2, 3, 4; FL-1
8266-03
..... LBS.

OF CHILDREN
PELIGRO

aque a alguien para que se la
entend the label, find someone
EXPOSURE
IMMEDIATELY.
TOR OR TO AN
ENT FACILITY
AL TREATMENT
Keep warm. Make sure
breathed, give artificial respiration,
by mouth to any unconscious
clothing, shoes, and other

**PRECAUTIONS FOR STRUCTURAL,
TRANSPORTATION, OR SPACE FUMIGATION USE**

GENERAL PRECAUTIONS:

1. When used for fumigation of enclosed spaces (houses and other structures, warehouses, vaults, chambers, greenhouses, trucks, vans, boxcars, ships, and other transport vehicles, and tarpaulin-covered areas), two persons trained in the use of this product must be present during introduction of the fumigant, initiation of aeration, and after aeration when testing for reentry. Two persons do not need to be present if monitoring is conducted remotely (outside the area being fumigated).
2. Do not fumigate with this product when the temperature is below 40 degrees F.
3. Whenever possible, apply methyl bromide from outside of structure or car being fumigated. Make sure the fumigated area is properly sealed and posted. Do not move trucks, trailers, or vans during fumigation. They must be completely aerated before movement is allowed.

AERATION AND REENTRY:

1. After fumigation, fumigated areas must be aerated until the air concentration level of methyl bromide is measured to be less than 5 ppm (3 ppm for residential and commercial structures).
2. Until the acceptable air concentration level is reached, do not allow any person to enter into the fumigated area unless he/she is wearing the personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this labeling. In greenhouses, additional Worker Protection Standard restrictions apply.
3. For residential and commercial structural fumigations, specific USEPA instructions as detailed elsewhere in this product label and supplemental manual must be strictly followed.

SPILL AND LEAK PROCEDURES FOR ENCLOSED SPACE FUMIGATION:

Evacuate everyone from the immediate area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow spilled fumigant to evaporate. Only correctly trained and PPE-equipped handlers are permitted to perform such cleanup. Do not permit entry into the spill or leak area by any other person until the air concentration level of methyl bromide is measured to be less than 5 ppm.

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.

PRECAUTIONS FOR SOIL FUMIGATION USE

PRIOR TO FUMIGATION:

1. Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies as required.
2. Never fumigate alone. It is imperative always to have an assistant and proper protective equipment in case of accidents.
3. 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 safely work with the tractor and driver while fumigating.
4. Handle this fumigant in the open, with the operator "up wind" from the container where there is good ventilation.
5. Check fumigant pressure system for leaks before beginning operation.
6. Two trained persons must be present during introduction of the fumigant.
7. When fumigating 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 of 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."
8. Field should be reasonably free of trash before starting the fumigation.
9. Post all treated areas with warning signs.

DURING FUMIGATION:

1. This fumigant 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 tarpaulin for a minimum of 48 hours when the injection depth is less than 10 inches.
2. Do not lift injection shanks to turn at the end of a pass until fumigant has drained from system following closure of shutoff valve.
3. If trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must be covered by lifting the shanks, then covering the trash with polyethylene film before making the turn for the next pass.
4. 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 where exposures above the permissible exposure levels could occur.

AFTER FUMIGATION:-

Keep 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 the tarpaulin.

SPILL AND LEAK PROCEDURES FOR SOIL FUMIGATION:

In 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 respirator) specified in the Hazards

ENVIRONMENT

This pesticide is toxic to wildlife. Do not dilute, lakes, streams, ponds, estuaries, oceans, specifically identified and addressed in an label containing this product to sewer systems treatment plant authority. For guidance contact Office of the EPA.

For space fumigation use, monitor area with a halide Detector during exposure and levels of the fumigant are not present (see A). The high volatility of the fumigant permits it to dissipate rapidly with no hazard to surround

CHEMICAL

Methyl bromide is practically nonflammable in use concentrations. However, flame can cause corrosive damage to items in the space being fumigated should be turned off.

Do not apply gas directly to metal surfaces on certain metals. Do not use containers or aluminum, or their alloys.

The following materials can develop a structural fumigation and should be removed if 1. Foodstuffs: (a) iodized salt; (b) Full-fat contain reactive sulfur compounds, such as and some salt blocks used for cattle licks. 2. (b) Foam rubber, as in rug padding, pillow stamps and other similar forms of reclaim (especially leather pillows). 4. Leather goods (especially tanned with sulfur processes). 5. Wools: the fumigation of any angora wools, and s of woolen suits, coats, blankets, and woolen yarn). 6. Viscose rayons (those process in which carbon disulfide is used). Certain writing papers cured by sulphide process. 8. Photographic chemicals as used in phot camera film). 9. Cinder blocks, or mixed concrete. 10. Any materials that may contain reactive sulfur. MAY HINDER EFFECTIVENESS OF THE fumigant. 11. If there is a question whether fumigation may be run with a small quantity of

STORAGE AND HANDLING:

STORAGE AND HANDLING: Store in cool, dry, ambient conditions or indoors in a well ventilated area. Do not contaminate water, food, or feed. Opening containers must wear the personal respirators when necessary) specified in the label. Open container only in a well-ventilated area or well to prevent tipping. Cylinders should be protected from mechanical shock such as dropping, bumping, slings, hooks, lugs, or similar devices to hand truck, fork truck or other device to which remove valve protection bonnet and safety cap and valve protection bonnet when empty, close valve, screw safety cap on before returning to shipper. Only the registered use cylinders for any other purpose. Follow partially empty cylinder.

RETURN OF CYLINDERS: Cylinders should be returned to Shadow Mountain Products, S 8770 Highway 25, Hollister, CA 95023

and should be returned promptly by collecting safety caps or valve protection bonnets. For further requirements for the product, contact the manufacturer. **SHIPPING:** This fumigant is classified as Hazardous Materials Regulations as Meth Bromide, Hazard Zone C and no exemption labeling are allowed. Describe empty cylinders (inhalation hazard). Do not ship with foods. **DISPOSAL:** Do not contaminate water. Pesticide wastes are toxic. Improper disposal of a violation of Federal Law. If these waste label instruction, contact your State Pesticide Hazardous Waste representative at the nearest

DIRECTIONS

per gallon.

PRODUCTS ON

CA 95024

2, 3, 4; FL-1
266-03

..... LBS.

IF CHILDREN

PELIGRO

si a alguien para que se la
d the label, find someone

EXPOSURE IMMEDIATELY. R OR TO AN FACILITY

TREATMENT

Keep warm. Make sure
give artificial respiration.
mouth to any unconscious

othing, shoes, and other
rea thoroughly with soap

steady, gentle stream of

exposure are dizziness,
apse. Lung edema may
by cardiac irregularities;
overexposure can result
e, with probable recovery
suggest the occurrence.
natic.

ary Statements.

followed.

SPILL AND LEAK PROCEDURES FOR ENCLOSED SPACE

FUMIGATION: Evacuate everyone from the immediate area of the spill or leak. For entry into affected area to correct problem, wear the personal protective equipment (including prescribed respirators) specified in the Hazards to Humans section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe strict safety precautions. Work upwind, if possible. Allow spilled fumigant to evaporate. Only correctly trained and PPE-equipped handlers are permitted to perform such cleanup. Do not permit entry into the spill or leak area by any other person until the air concentration level of methyl bromide is measured to be less than 5 ppm.

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.

PRECAUTIONS FOR SOIL FUMIGATION USE

PRIOR TO FUMIGATION:

1. Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies as required.
2. Never fumigats alone. It is imperative always to have an assistant and proper protective equipment in case of accidents.
3. 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 safely work with the tractor and driver while fumigating.
4. Handle this fumigant in the open, with the operator "up wind" from the container where there is good ventilation.
5. Check fumigant pressure system for leaks before beginning operation.
6. Two trained persons must be present during introduction of the fumigant.
7. When fumigating 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 of 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."
8. Field should be reasonably free of trash before starting the fumigation.
9. Post all treated areas with warning signs.

DURING FUMIGATION:

1. This fumigant 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 tarpaulin for a minimum of 48 hours when the injection depth is less than 10 inches.
2. Do not lift injection shanks to turn at the end of a pass until fumigant has drained from system following closure of shutoff valve.
3. If trash is inadvertently pulled by the shanks to the ends of the field when fumigating, it must be covered by lifting the shanks, then covering the trash with polyethylene film before making the turn for the next pass.
4. 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 where exposures above the permissible exposure levels could occur.

AFTER FUMIGATION:-

Keep 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 the tarpaulin.

SPILL AND LEAK PROCEDURES FOR SOIL FUMIGATION:

In 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 (800-424-8802) if the reportable quantity of 1000 lbs. is exceeded.

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 and/or nitrate starvation 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 degrees F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

containers, and some soil blocks used for cattle
(b) Foam rubber, as in rug padding
stamps and other similar forms of
(especially leather pillows). 4. Leath
goods tanned with sulfur processes).
the fumigation of any angora wools
fumigation of woolen suits, coats, bla
and woolen yarn). 6. Viscose rayon
process in which carbon bisulfide is
Certain writing papers cured by sulph
8. Photographic chemicals as used i
camera film). 9. Cinder blocks, or n
10. Any materials that may contain
MAY HINDER EFFECTIVENESS OF
absorbs the methyl bromide, reducing
charcoal). 11. If there is a question
fumigation may be run with a small qua

STORAGE

STORAGE AND HANDLING

ambient conditions or indoors in a well
Do not contaminate water, food, or
opening containers must wear the pe
respirators when necessary) specified
Open container only in a well-ventilate
or wall to prevent tipping. Cylinders
mechanical shock such as dropping,
slings, hooks, longs, or similar device
hand truck, fork truck or other device to
remove valve protection bonnet and s-
safety cap and valve protection bonne
empty, close valve, screw safety cap
before returning to shipper. Only the
use cylinders for any other purpose. Fo
partially empty cylinder.

RETURN OF CYLINDERS:

Shadow Mountain Products
8770 Highway 25
Hollister, CA 95023

and should be returned promptly by coi
safety caps or valve protection bonnets.
further requirement for the product, conta

SHIPPING: This fumigant is class
Hazardous Materials Regulations as Me
Hazard, Hazard Zone C and no exempti
labeling are allowed. Describe empty cyl
(inhalation hazard). Do not ship with food

DISPOSAL: Do not contaminate wa
cide wastes are toxic. Improper disposal
a violation of Federal Law. If these was
label instruction, contact your State Pest
Hazardous Waste representative at the ne

DIRECTIO

It is a violation of Federal Law to use this pro
not apply this product in a way that will contac
drift. Only protected handlers may be in the ar
to your State or Tribe, consult the agency resp

PLACARDING OF

The applicator (or supervisor of the applicatio
with signs bearing:

- skull and crossbones symbol
 - "DANGER/PELIGRO"
 - "Area under fumigation, DO NOT ENTER"
 - "Methyl Bromide Fumigant in use."
 - "The date and time of fumigation, and
 - name, address, and telephone number of
 - Boxcars must be placarded with D.O.T. s
- Do not allow entry by unprotected persons i
Such signs must only be removed when the a
to be less than 5 ppm (3 ppm in residential an
during the entire posting period. Warning sign

BEST AVAILABLE COPY

ENVIRONMENTAL HAZARD

Do not discharge effluent containing this product into lakes, streams, rivers, oceans, or public waters unless this product is listed in an NPDES permit. Do not discharge effluent into sewer systems without previously notifying the sewerage authority. For more guidance contact your State Water Board or Regional Office.

Monitor area immediately surrounding the fumigation site during exposure and aeration periods to establish that dangerous concentrations of gas do not develop (see Aeration Statement for Halide Detector use). Do not permit it to be vented from space being fumigated and do not enter surrounding areas with correct monitoring.

CHEMICAL HAZARD

Nonflammable. There is no danger from fire or explosion. However, flame can change the chemical to produce some of the space being fumigated. Pilot lights and glowing wire

do not contact metal surfaces because of possible corrosive effect on containers or application equipment made of magnesium, aluminum, or zinc.

Do not develop an undesirable odor when encountered in fumigation area. Odor should be removed from the space being fumigated:

- (a) Full-fat soy flour; (b) Any kinds of materials that absorb odors, such as some soap powders, some baking sodas, and some cat licks.
 - 2. Certain rubber goods: (a) sponge rubber; (b) rubber padding, pillows, cushions, and mattresses; (c) Rubber goods of reclaimed rubber.
 - 3. Furs, horsehair, and pillows.
 - 4. Leather goods (particularly white kid or any other leather goods).
 - 5. Woolens (extreme caution should be used in woolens, and some adverse effect has been noted on the wool, blankets, hand-knit woolen socks, sweaters, shawls, and rayon (those rayons processed or manufactured by a sulfide is used).
 - 7. Paper: (a) Silver-polishing papers; (b) paper used in sulphide processes; (c) Carbonless paper or Blue-prints. Paper used in photo processing darkrooms (does not include black and white prints, or mixed concrete which occasionally picks up odors, and contains reactive sulfur compounds). THESE PRODUCTS ARE NOT TO BE REUSED.
- TOXICITY OF THE FUMIGANT:** Charcoal materials (charcoal, wood chips, etc.) reduce the effective concentration and contaminating the fumigation area. The question whether a material may develop an odor, a test of a small quantity of the material).

AGRICULTURAL USE 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 Space Fumigation: Entry (including early entry that would otherwise be 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/building) from the start of application until aeration reduces the air concentration level of methyl bromide in the working area to less than 5 ppm.

Greenhouse Soil Fumigation: Entry (including early entry that would otherwise be 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/building) from the start of application until 48 hours after application AND until the air concentration level of methyl bromide in the working area is measured to be less than 5 ppm. Until the aeration of the soil is complete (usually 10-14 days), non-handlers are permitted in the greenhouse ONLY while the air concentration level of methyl bromide in their working area remains less than 5 ppm. If tarps are used for the application, non-handler entry is prohibited during tarp removal and until the air level is measured to be less than 5 ppm.

Outdoor Soil Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person—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 being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fumigant warning signs, as described in the "Placarding of Fumigated Areas" section of this labeling. Post the fumigant 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). Outdoor Soil Fumigation: Post the fumigant warning signs at entrances to treated areas.

PPE FOR ENTRY DURING 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.

STORAGE AND DISPOSAL

HANDLING: Store in a secure manner either outdoors under cover or in a well ventilated area. Post as a pesticide storage area. Do not store near food, or feed by storage. Persons moving, handling, or using the product should wear the personal protective equipment (including prescribed clothing) specified in the Hazards to Humans section of this labeling. Store cylinders upright, secured to a rack or wall. Cylinders should not be subjected to rough handling or use involving dropping, bumping, dragging, or sliding. Do not use repair devices to unbind cylinders. Transport cylinders using a device to which the cylinder can be firmly secured. Do not use a horn or safety cap until immediately before use. Replace protection bonnet when cylinder is not in use. When cylinder is in use, replace safety cap onto valve outlet, and replace protection bonnet. Only the registrant is authorized to refill cylinders. Do not use for other purposes. Follow registrant's instructions for return of empty or partially full cylinders.

OWNERS:

Cylinders are the property of:
Shadow Mountain Products
1029 Railroad Street
Corona, CA 91720

Return cylinders promptly by collect auto freight. Do not ship cylinders without protection bonnets. When a cylinder is partially full and there is no other product, contact the company for return instructions.

Fumigant is classified in the U.S. Department of Transportation regulations as Methyl Bromide, 2.3, UN 1062, Poison-Inhalation Hazard and no exemptions from specifications, packaging, marking, or labeling. Recycle empty cylinders as having last contained Methyl Bromide. Do not ship with foods, feeds, or clothing.

Do not contaminate water, food, or feed by storage or disposal. Post-pesticide disposal: If these wastes cannot be disposed of by use according to label, contact your State Pesticide or Environmental Control Agency, or the nearest EPA Regional Office for guidance.

DIRECTIONS FOR USE

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ACCEPTED
with COMMENTS
In EPA Letter Dated

NOV 18 1994

(Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 58266-03)

... (1) rusted soya flour; (c) Any kinds of materials that sulfur compounds, such as some soap powders, some baking sodas, etc. used for cattle licks. 2. Certain rubber goods: (a) sponge rubber, as in rug padding, pillows, cushions, and mattresses; (c) Rubber similar forms of reclaimed rubber. 3. Furs, horsehair, and pillows (pillows). 4. Leather goods (particularly white kid or any other leather sulfur processes). 5. Woolens (extreme caution should be used in any angora woolens, and some adverse effect has been noted on the an suits, coats, blankets, hand-knit woolen socks, sweaters, shawls, etc.). 6. Viscose rayons (those rayons processed or manufactured by a carbon bisulfide is used). 7. Paper: (a) Silver-polishing papers; (b) papers cured by sulphide processes; (c) Carbonless paper or Blue-prints, chemicals as used in photo processing darkrooms (does not include under blocks, or mixed concrete which occasionally picks up odors, that may contain reactive sulfur compounds. THESE PRODUCTS EFFECTIVENESS OF THE FUMIGANT: Charcoal materials (charcoal, bromide, reducing the effective concentration and contaminating the area is a question whether a material may develop an odor, a test run with a small quantity of the material).

STORAGE AND DISPOSAL

STORAGE AND HANDLING: Store in a secure manner either outdoors under or indoors in a well ventilated area. Post as a pesticide storage area. Do not store water, food, or feed by storage. Persons moving, handling, or using must wear the personal protective equipment (including prescribed necessary) specified in the Hazards to Humans section of this labeling. Store in a well-ventilated area. Store cylinders upright, secured to a rack or other device. Cylinders should not be subjected to rough handling or such as dropping, bumping, dragging, or sliding. Do not use rope, chain, or similar devices to unload cylinders. Transport cylinders using a cart or other device to which the cylinder can be firmly secured. Do not remove protection bonnet and safety cap until immediately before use. Replace protection bonnet when cylinder is not in use. When cylinder is not in use, screw safety cap onto valve outlet, and replace protection bonnet on shipping. Only the registrant is authorized to refill cylinders. Do not use for other purpose. Follow registrant's instructions for return of empty or for.

CYLINDERS: Cylinders are the property of:
 Main Products Shadow Mountain Products
 Highway 25 1029 Railroad Street
 CA 95023 Corona, CA 91720

Do not ship cylinders without protection bonnets. When a cylinder is partially full and there is no label on the product, contact the company for return instructions.

This fumigant is classified in the U.S. Department of Transportation Regulations as Methyl Bromide, 2.3, UN 1062, Poison-Inhalation Hazard Class C and no exceptions from specifications, packaging, marking, or labeling. Describe empty cylinders as having last contained Methyl Bromide. Do not ship with foods, feeds, or clothing.

Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label directions, contact your State Pesticide or Environmental Control Agency, or the nearest EPA Regional Office for guidance.

DIRECTIONS FOR USE

Do not use this product in any manner inconsistent with its labeling. Do not use in a way that will contact workers or other persons, either directly or through contact with surfaces. No one may be in the area during application. For any requirements specific to your State, contact the agency responsible for pesticide regulation.

POSTING OF FUMIGATED AREAS

Post (or the application) must placard all entrances to the fumigated area with the following placard:

DO NOT ENTER/NO ENTRE, "NO ENTRY"
 This area is fumigated with methyl bromide. Do not enter until notified by the applicator. For more information, call the phone number of the applicator. Do not enter until notified with D.O.T. specified warning signs. Do not allow persons into the fumigated area until the signs are removed. Signs must remain legible until the air concentration level of methyl bromide is measured to be less than 5 ppm in residential and commercial structures. Signs must remain legible until the air concentration level of methyl bromide is measured to be less than 5 ppm. Warning signs are available from your dealer or distributor.

... (entire enclosed structure/building) from the start of application until the working area is measured to be less than 5 ppm. Until the aeration of the soil is complete (usually 10-14 days), non-handlers are permitted in the greenhouse ONLY while the air concentration level of methyl bromide in their working area remains less than 5 ppm. If tarps are used for the application, non-handler entry is prohibited during tarp removal and until the air level is measured to be less than 5 ppm.

Outdoor Soil Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person—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 being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fumigant warning signs, as described in the "Placarding of Fumigated Areas" section of this labeling. Post the fumigant 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). Outdoor Soil Fumigation: Post the fumigant warning signs at entrances to treated areas.

PPE FOR ENTRY DURING 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.

ACCEPTED
 with COMMENTS
 In EPA Letter Dated
 NOV 18 1994
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
 58266-03

WARRANTY

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 instruction, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

CA April, 1994

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10 of 15

GENERAL INSTRUCTIONS

THIS FUMIGANT IS A HIGHLY HAZARDOUS MATERIAL AND SHOULD BE USED ONLY BY INDIVIDUALS TRAINED IN ITS PROPER USE. BEFORE USING, READ AND FOLLOW ALL LABEL PRECAUTIONS AND DIRECTIONS, INCLUDING THE ATTACHED SUPPLEMENT. ALL PERSONS WORKING WITH THIS FUMIGANT MUST BE KNOWLEDGEABLE ABOUT THE HAZARDS, AND TRAINED IN THE USE OF REQUIRED RESPIRATOR EQUIPMENT AND DETECTOR DEVICES, EMERGENCY PROCEDURES, AND PROPER USE OF THE FUMIGANT.

SPACE AND STRUCTURAL FUMIGATION

DIRECTIONS FOR USE: METHYL BROMIDE 99.5% is intended for professional use in empty mills, warehouses, boxcars, fumigation vaults, under sealed tarpaulins, flat or upright bulk grain storages for the control of all stored product insects including grain beetles, granary weevil, rice weevil, codellus, 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 beetle, 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 degrees 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 3 1/2 to 3 3/4 pounds per 1,000 cu.ft. fumigation rate.

DANGER: 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. Do not use METHYL BROMIDE 99.5% in dairy, cheese, or meat plants, or on fresh fruits or vegetables. Do not fumigate if (1) grain moisture is high; (2) grain temperature is low (below 60 degrees 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 gas cover tarpaulin or polyethylene plastic sheet at least 4 mils. thick. Seal all edges of the envelope with moist soil or sand snakes. Soak soil with water 1 foot from the edge of the envelope as necessary to protect nearby plants.

FUMIGATION:

Release Methyl Bromide from outside of structure through a heat exchanger or suitable leak proof tube (such as polyethylene) attached to an evaporating pan to prevent splashing over interior. If it is necessary to release fumigant from inside of structure, a S.C.B.A. must be worn as described in Precautionary Statements. Operate electric fan(s) for a minimum of 30 minutes after release to accelerate distribution of gas. Relative to the complexity of the structure to be fumigated, more than one release location may have to be set up.

FUMIGATION FOR RESIDENTIAL AND COMMERCIAL STRUCTURES

AERATION AND REENTRY: At the end of the exposure period, after all tarpaulins or seals are removed from the structure, open all interior and exterior doors, windows, and vents that are operational. No person shall be allowed to reenter the structure unless wearing protective clothing and a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator until the following criteria are met:

1. (A). If non-mechanical or natural ventilation is used, the structure must be aerated for a minimum of 7 days from the time the tarpaulins are removed. (B). After aeration is completed, the level of Methyl Bromide in the structure must be measured using a gas detector device with a minimum detection limit of 3 ppm for Methyl Bromide. Measurements must be taken from an interior electrical outlet by inserting the detection device in the ground receptacle, or from other enclosed space within the wall or an interior and a perimeter wall; and (C)(i). The level of Methyl Bromide is less than 3 ppm from each area measured; or (ii). If the level of Methyl Bromide is 3 ppm or greater, the structure must be aerated for an additional 24 hours. At the end of the 24 hour period, the level of Methyl Bromide must be measured from the areas previously sampled. These procedures must be repeated until the level of Methyl Bromide is below 3 ppm.

2. If mechanical aeration is used: (A) For structures without attics, an aeration fan(s) must be inserted in a window or other exterior opening and sealed so that the air inside the structure is exhausted out of the structure. The aeration fan(s) must be capable of displacing 5,000 cubic feet of air per minute. To facilitate aeration, exterior openings, such as windows, vents, or an access door to the subarea, should be utilized. The structure must be aerated with the fan(s) operating for a minimum of 72 hours; (B). After aeration is completed, the level of Methyl Bromide in the structure must be measured using a gas detector device with a minimum detection limit of 3 ppm for Methyl Bromide. Measurements must be taken from an interior electrical outlet by inserting the detection device in the ground receptacle, or from other enclosed space within the wall or an interior and a perimeter wall; and (C)(i). The level of Methyl Bromide is less than 3 ppm from each area measured; or (ii). If the level of Methyl Bromide is 3 ppm or greater, the structure shall be aerated for an additional 24 hours.

Space and Structural Fumigation, Continued:

4. For structures with basements, in addition to the requirements of paragraph the windows, vents, and interior doors of the basement must be open, and completed, the level of Methyl Bromide in the basement must be measured: (A) device with a minimum detection limit of 3 ppm for Methyl Bromide residues. A be taken from an interior electrical outlet by inserting the detection device in the or from other enclosed space within the wall or an interior wall. In the absence measurement must be taken of the ambient air in the basement; and (B)(i). Bromide is less than 3 ppm; or (ii) if the level of Methyl Bromide is 3 ppm or g must be aerated for an additional 24 hours for natural ventilation or an adc mechanical aeration. At the end of the additional ventilation period, the leve must be measured from the area in the basement previously sampled. These repeated until the level of Methyl Bromide is below 3 ppm.

STRUCTURAL FUMIGATION FACT SHEET

(See Supplemental Manual #MB-1 for Example of Fact She

A. The applicator must obtain a Structural Fumigation Fact Sheet which has b provided to, the following persons: (1) an adult occupant of a single family d parties entering into a fumigation agreement; (2)(a) The owner, manager, or d the building for multiple-family dwellings, provided he or she acknowledges applicator that a copy of the Structural Fumigation Fact Sheet has been pri occupant of each unit prior to the parties entering into a fumigation agreemei occupant of each unit in a multiple family dwelling prior to the parties enterin agreement; or (3), the owner, manager, or designated agent for all structures o than family dwellings.

B. The Structural Fumigation Fact Sheet shall state: The purpose of this handi consumer of possible health hazards associated with the use of the structure Bromide. To make sure you have been given an opportunity to read this, applic to obtain the signature of the owners and occupants of property to be fumi Bromide. You will also be given a copy of this fact sheet to keep.

DRAEGER GAS DETECTOR, BENDIX GASTECH DETECTOR: (Hand Pump a Methyl bromide may be detected at the Threshold Limit Value (T.L.V.) of 5 ppm available from your dealer or distributor.

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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 degrees 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 3 1/2 to 3 3/4 pounds per 1,000 cu.ft. fumigation rate.

DANGER: 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. Do not use METHYL BROMIDE 99.5% in dairy, cheese, or meat plants, or on fresh fruits or vegetables. Do not fumigate if (1) grain moisture is high; (2) grain temperature is low (below 60 degrees 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 gas cover tarpaulin or polyethylene plastic sheet at least 4 mils. thick. Seal all edges of the envelope with moist soil or sand snakes. Soak soil with water 1 foot from the edge of the envelope as necessary to protect nearby plants.

FUMIGATION:

Release Methyl Bromide from outside of structure through a heat exchanger or suitable leak proof tube (such as polyethylene) attached to an evaporating pan to prevent splashing over interior. If it is necessary to release fumigant from inside of structure, a S.C.B.A. must be worn as described in Precautionary Statements. Operate electric fan(s) for a minimum of 30 minutes after release to accelerate distribution of gas. Relative to the complexity of the structure to be fumigated, more than one release location may have to be set up.

FUMIGATION FOR RESIDENTIAL AND COMMERCIAL STRUCTURES

AERATION AND REENTRY: At the end of the exposure period, after all tarpaulins or seals are removed from the structure, open all interior and exterior doors, windows, and vents that are operational. No person shall be allowed to reenter the structure unless wearing protective clothing and a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied/SCBA respirator until the following criteria are met:

1. (A). If non-mechanical or natural ventilation is used, the structure must be aerated for a minimum of 7 days from the time the tarpaulins are removed. (B). After aeration is completed, the level of Methyl Bromide in the structure must be measured using a gas detector device with a minimum detection limit of 3 ppm for Methyl Bromide. Measurements must be taken from an interior electrical outlet by inserting the detection device in the ground receptacle, or from other enclosed space within the wall or an interior and a perimeter wall; and (C)(i). The level of Methyl Bromide is less than 3 ppm from each area measured; or (ii), if the level of Methyl Bromide is 3 ppm or greater, the structure must be aerated for an additional 24 hours. At the end of the 24 hour period, the level of Methyl Bromide must be measured from the areas previously sampled. These procedures must be repeated until the level of Methyl Bromide is below 3 ppm.

2. If mechanical aeration is used: (A) For structures without attics, an aeration fan(s) must be inserted in a window or other exterior opening and sealed so that the air inside the structure is exhausted out of the structure. The aeration fan(s) must be capable of displacing 5,000 cubic feet of air per minute. To facilitate aeration, exterior openings, such as windows, vents, or an access door to the subarea, should be utilized. The structure must be aerated with the fan(s) operating for a minimum of 72 hours; (E). After aeration is completed, the level of Methyl Bromide in the structure must be measured using a gas detector device with a minimum detection limit of 3 ppm for Methyl Bromide. Measurements must be taken from an interior electrical outlet by inserting the detection device in the ground receptacle, or from other enclosed space within the wall or an interior and a perimeter wall; and (C)(i). The level of Methyl Bromide is less than 3 ppm from each area measured; or (ii), if the level of Methyl Bromide is 3 ppm or greater, the structure shall be aerated for an additional 12 hours. At the end of the 12 hour period, the level of Methyl Bromide must be measured from the areas previously sampled. These procedures must be repeated until the level of Methyl Bromide is below 3 ppm.

3. (A) For structures with attics, an aeration fan must be inserted in the attic access door and a window or other exterior opening, and both sealed so that air inside the structure is exhausted outside the structure. The aeration fans must be capable of displacing a minimum of 5,000 cubic feet of air per minute. To facilitate aeration, exterior openings, such as windows, vents, or an access door to the subarea should be utilized. The structure must be aerated with the fans operating for a minimum of 72 hours; (B) After aeration is completed, the level of Methyl Bromide in the structure must be measured using a gas detector device with a minimum detection limit of 3 ppm for Methyl Bromide residues. Measurements must be taken from within an interior electrical outlet by inserting the detection device in the ground receptacle, or other enclosed space within an interior and a perimeter wall; and (C)(i). The level of Methyl Bromide is less than 3 ppm from each area measured; or (ii), if the level of Methyl Bromide is 3 ppm or greater, aeration must continue for an additional 12 hours. At the end of the 12 hour period, the level of Methyl Bromide must be measured from the areas previously sampled. These procedures must be repeated until the level of Methyl Bromide is below 3 ppm.

10 (see Supplemental Manual #MB-1 for Example of F

A. The applicator must obtain a Structural Fumigation Fact Sheet which provided to the following persons: (1) an adult occupant of a single parties entering into a fumigation agreement; (2)(a) The owner, manager, the building for multiple-family dwellings, provided he or she acting applicator that a copy of the Structural Fumigant Fact Sheet has to occupant of each unit prior to the parties entering into a fumigation a occupant of each unit in a multiple family dwelling prior to the parties agreement; or (3), the owner, manager, or designated agent for all stru than family dwellings.

B. The Structural Fumigation Fact Sheet shall state: The purpose of th consumer of possible health hazards associated with the use of the s Bromide. To make sure you have been given an opportunity to read thi to obtain the signature of the owners and occupants of property to Bromide. You will also be given a copy of this fact sheet to keep.

DRAEGER GAS DETECTOR, BENDIX GASTECH DETECTOR: (Hand Methyl bromide may be detected at the Threshold Limit Value (T.L.V.) available from your dealer or distributor.

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12 of 15

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PREPLANT SOIL FUMIGATION

METHYL BROMIDE 99.5% may be used as a preplant soil fumigant for land in which plants may be grown for nonfeed 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 orchard and vineyard planting sites and soils where tomatoes, strawberries, pineapple, peppers, muskmelons, cauliflower, broccoli, lettuce, onions, asparagus, and eggplants are to be grown for food.

APPLICATION

SEED AND PLANT BEDS (Plants Grown For Transplanting): Prior to planting, apply Methyl Bromide 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. Rate and exposure time is indicated in the dosage table.

TOMATOES, STRAWBERRIES, BROCCOLI, LETTUCE, ONIONS MUSKMELONS, EGGPLANTS, ASPARAGUS, PEPPERS, AND CAULIFLOWER: Follow directions for seed and plant beds. Rate and exposure time is indicated in the dosage table. 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 spacing and width of treatment in the row or bed.

PINEAPPLE: Prior to planting pineapple, apply Methyl Bromide at a rate specified in the dosage table by means of tractor mounted chisels set not more than 5 1/2 feet apart and at a depth of 12 - 18 inches. To seal fumigant, cover immediately with pineapple bed mulch film dispensed by a sled mounted on the same tractor. Pineapple propagules may be planted through the bed mulch film 7 or 14 days after fumigation.

GRAPES: Prior to planting, apply Methyl Bromide at the rate that appears in the dosage table by means of tractor mounted chisels spaced not more than 5 1/2 feet apart. Inject the Methyl Bromide at a depth of not less than 12 inches. To seal fumigant after application for disease control, 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 in the dosage table has passed. For nematode control, seal soil immediately after application of the fumigant by discing or similar operation. Prior to application, the soil should be ripped to not less than 30 inches and the subsurface should be as dry as possible. Excess moisture will block deep penetration of the Methyl Bromide. Peat soils and soils very high in organic content should not be fumigated to control *Armillaria mellea* with Methyl Bromide. 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. Do not apply Methyl Bromide to soil where vines will bear within 24 months.

DECIDUOUS FRUITS, NUTS, CITRUS, VINEYARDS, AND OTHER PERENNIAL CROPS: (Do not harvest crop for 12 months after fumigation). Prior to planting, apply Methyl Bromide at a rate and exposure time that is indicated in the dosage table. To seal fumigant after application for disease control, cover immediately with a gas-tight tarpaulin by means of a mechanical tarp layer. For nematode control, seal soil immediately after application of the fumigant by discing or similar operation. The soil should be ripped to not less than 30 inches and the subsurface should be as dry as possible. Excess moisture will block deep penetration of the Methyl Bromide. Peat soils and soils very high in organic content should not be fumigated to control *Armillaria mellea* with Methyl Bromide. 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. Back hoeing and sugering are alternative methods of applying Methyl Bromide to the tree site. Attach a Methyl Bromide dispenser to the cylinder of Methyl Bromide and to it attach a polyethylene applicator tube. The correct dosage can be measured with the dispenser and then applied through the tube.

BACK HOING: 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. Pack fill site with 2 feet of soil, place applicator tube at this level, complete back fill, 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, back fill 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 FOR SOIL FUMIGATION WITH METHYL BROMIDE

PEST CONTROL DESIRED	TYPE OF SOIL AND/OR CROP	DOSAGE
Nematodes, Weed Seeds, Insects	TURF RENOVATION, Lawns and Other Recreational Turf Areas	400-500 lb/A
	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 lb/A
Damping off diseases such as <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i>	TURF RENOVATION: same sites as listed above	800 lb/A
	NONFOOD AND NONFEED CROPS AREAS: same sites as listed above Vegetables for production of transplants only, Floral and Nursery Crops and Cover Crops**	800 lb/A
Nematodes, Weed Seeds, Insects	Permanent Planting For: Tomatoes, Strawberries, Pineapples, Muskmelons, Eggplants, Peppers, Broccoli, Cauliflower	240-400
	GRAPES: For control of Nematodes in light sandy soils and Nematodes (root knot-disease, lesion, pin-ring, and dagger)	400-600
	Control of <i>Phytophthora</i> in light sandy soil and fine textured clay soils:	600 lb/A
<i>Armillaria</i> root rot, <i>Phytophthora</i> root rot, Crown rot fungus, Citrus Nematodes, Burrowing Nematodes	Control of <i>Armillaria</i> in light sandy soils:	400 lb/A
	Control of <i>Armillaria</i> in fine textured clay soil:	600 lb/A
	DECIDUOUS FRUITS, NUTS, CITRUS AND OTHER PERENNIAL WOODY PLANTS Control of: <i>Phytophthora</i> root rot	400-65
Root knot Nematodes	Control of: <i>Armillaria</i> root rot in sandy light and fine textured clay soil:	400-65
	CITRUS: For control of burrowing and root knot Nematodes	400-65
TREE SITES:	For control of <i>Phytophthora</i> root rot	1-1 1/2 100 sq
	Control of <i>Armillaria</i> root rot in light sandy soils:	1-1 1/2 100 sq
Control of <i>Armillaria</i> in fine textured clay soil:		1-1 1/2 100 sq

* Do not treat when temperature is below 50 degrees F.

graphs 1, 2, and 3 above, and (A). After ventilation is used using a gas detector... A measurement must be in the ground receptacle... sense of an interior wall, a (B)(3). The level of Methyl Bromide... or greater, the structure in additional 12 hours for a level of Methyl Bromide... These procedures must be

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Pump and Detector Tube) of 5 ppm. Detectors are

1000

he or she acknowledges in writing to the
 Fact Sheet has been provided to an adult
 a fumigation agreement, or (b). An adult
 prior to the parties entering into a fumigation
 agent for all structures or businesses other

The purpose of this handout is to inform the
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 opportunity to read this, applicators are required
 of property to be fumigated with Methyl
 at to keep.

ECTOR: (Hand Pump and Detector Tube)
 half Value (T.L.V.) of 5 ppm. Detectors are

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, disking, or plowing. Fate and exposure time is
 indicated in the dosage table.
**TOMATOES, STRAWBERRIES, BROCCOLI, LETTUCE, ONIONS
 MUSKMELONS, EGGPLANTS, ASPARAGUS, PEPPERS, AND
 CAULIFLOWER:** Follow directions for seed and plant beds. Rate and exposure time is
 indicated in the dosage table. 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 spacing and width of
 treatment in the row or bed.

PINEAPPLE: Prior to planting pineapple, apply Methyl Bromide at a rate specified in the
 dosage table by means of tractor mounted chisels set not more than 5 1/2 feet apart and at a depth
 of 12 - 18 inches. To seal fumigant, cover immediately with pineapple bed mulch film dispensed by
 a sled mounted on the same tractor. Pineapple propagules may be planted through the bed mulch
 film 7 or 14 days after fumigation.

GRAPES: Prior to planting, apply Methyl Bromide at the rate that appears in the dosage table
 by means of tractor mounted chisels spaced not more than 5 1/2 feet apart. Inject the Methyl
 Bromide at a depth of not less than 12 inches. To seal fumigant after application for disease
 control, 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 in the dosage table has passed.
 For nematode control, seal soil immediately after application of the fumigant by disking or similar
 operation. Prior to application, the soil should be ripped to not less than 30 inches and the
 subsurface should be as dry as possible. Excess moisture will block deep penetration of the
 Methyl Bromide. Peat soils and soils very high in organic content should not be fumigated to
 control *Armillaria mellea* with Methyl Bromide. 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. Do not apply Methyl Bromide to soil where vines will bear within 24
 months.

**DECIDUOUS FRUITS, NUTS, CITRUS, VINEYARDS, AND OTHER
 PERENNIAL CROPS:** (Do not harvest crop for 12 months after fumigation). Prior to
 planting, apply Methyl Bromide at a rate and exposure time that is indicated in the dosage table.
 To seal fumigant after application for disease control, cover immediately with a gas-tight tarpaulin
 by means of a mechanical tarp layer. For nematode control, seal soil immediately after application
 of the fumigant by disking or similar operation. The soil should be ripped to not less than 30 inches
 and the subsurface should be as dry as possible. Excess moisture will block deep penetration of
 the Methyl Bromide. Peat soils and soils very high in organic content should not be fumigated to
 control *Armillaria mellea* with Methyl Bromide. 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. Back hoeing and augering are alternative methods of applying
 Methyl Bromide to the tree site. Attach a Methyl Bromide dispenser to the cylinder of Methyl
 Bromide and to it attach a polyethylene applicator tube. The correct dosage can be measured with
 the dispenser and then applied through the tube.

BACK HOING: 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. Back fill site with 2 feet of soil, place applicator tube at this level, complete back fill,
 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, back fill 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.

of transplants only Floral and Nurser	
Damping off diseases such as <i>Fythyum</i> <i>Rhizoctonia</i> , <i>Fusarium</i>	TURF RENOVATI same sites as listed above NONFOOD AND NONFEED CROP same sites as listed above Vegetables for prc of transplants only Floral and Nurser and Cover Crops*
Nematodes Weed Seeds Insects	Permanent Plantin Tomatoes, Strawb Pineapples, Musku Eggplants, Pepper Broccoli, Cauliflow
Crown rot fungus <i>Armillaria</i> root rot <i>Phytophthora</i> root rot Nematodes (root knot- clima, lesion, pin, ring, and dagger)	GRAPES: For con of Nematodes in light sandy soils at fine textured clay s Control of <i>Phytop</i> in light sandy soil s fine textured clay s Control of <i>Armillari</i> in light sandy soils Control of <i>Armillari</i> fine textured clay s
<i>Armillaria</i> root rot <i>Phytophthora</i> root rot Crown rot fungus Citrus Nematodes Burrowing Nematodes	DECIDUOUS FRU NUTS, CITRUS AND OTHER PER WOODY PLANTS Control of: <i>Phytophthora</i> root Control of: <i>Armillaria</i> root rot in sandy light and fine textured clay s
Root knot Nematodes	CITRUS: For control of burr and root knot Nem TREE SITES: For control of <i>Phytophthora</i> root Control of <i>Armillari</i> in light sandy soils: Control of <i>Armillari</i> fine textured clay s

* Do not treat when temperature is below
 - Cover crops can not be used for either

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**APPLICATION AND EXPOSURE TABLE
FOR USE WITH METHYL BROMIDE 99.5%**

TYPE OF SOIL CROP	DOSAGE*	MIN. EXP.	AERATION TIME BEFORE PLANTING
VEGETATION, Other Turf Areas	400-500 lb/A	48 hrs	3 days
FRUIT AND VEGETABLE CROPS AREAS: Plant Beds for lawns, Street Trees, Shrubs	400-500 lb/A	48 hrs	3 days
For production is only. Nursery Crops			
VEGETATION: Lawns	800 lb/A	48 hrs	14 days if planted to transplants 3 days if seeded
FRUIT AND VEGETABLE CROPS AREAS: Lawns	800 lb/A	48 hrs	14 days if planted to transplants 3 days if seeded
For production is only. Nursery Crops			
Planting For: Strawberries, Muskmelons Peppers, Sunflower	240-400 lb/A	48 hrs	3 days if seeded 7-14 days if vegetable growth set in treated soil
For control is in soils and clay soils:	400-600 lb/A	5-7 days	14 days
Phytophthora in soil and clay soils:	800 lb/A	5-7 days	14 days
Armillaria in soil:	400 lb/A	5-7 days	14 days
Armillaria in clay soil:	800 lb/A	5-7 days	14 days
US FRUITS, TREES AND OTHER PERENNIAL PLANTS			
For control of root rot	400-650 lb/A	5-7	14 days
For control of root rot in light and clay soil:	400-650 lb/A	5-7 days	14 days
For control of burrowing nematodes	400-650 lb/A	5-7 days	In colder climates treat in fall and plant following spring
For control of root rot	1-1 1/2 lb/100 sq.ft.	5-7 days	In warmer climates do not plant until 30 days after application
For control of root rot in clay soil:	1-1 1/2 lb/100 sq.ft.	5-7 days	
For control of root rot in clay soil:	1-1 1/2 lb/100 sq.ft.	5-7 days	

**FOR USE WEST OF ROCKY MOUNTAINS
ONIONS, DIRECT SEEDED**

APPLICATION: Treatment can be made 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. Follow application directions as described for SEED AND PLANT BEDS.

USE: For control of White Rot, weeds (grasses) and Nematodes.

DOSAGE: 300 lbs/Acre

EXPOSURE: Remove tarpaulin after 48 hours.

AERATION: Aerate 7-14 days before planting.

LIMITATION: Use restricted to west of the Rocky Mountains. Do not treat any field more than once every twelve months.

**FOR USE IN CALIFORNIA ONLY
ASPARAGUS AND LETTUCE**

APPLICATION: Follow application directions as described for SEED AND PLANT BEDS.

DOSAGE AND USE TABLE:

Crop	Use	Rate	Aeration*
Asparagus	Fungus diseases (damping off, <i>Phythium</i> spp.) Weeds (grasses), Nematodes	300-400 lbs/A	Remove tarpaulin after 48 hrs
Lettuce	Weeds (including oxalis) Nematodes Big Vein	300-400 lbs/A 200-300 lbs/A	Remove tarpaulin after 48 hrs Remove tarpaulin after 48 hrs

*Aerate 14 days before planting.

LIMITATIONS: For use in California only. Do not harvest asparagus during year of treatment. Use on lettuce fields only once in 2 to 3 years.

**FOR USE IN FLORIDA
CITRUS CONTROL OF PHYTOPHTHORA IN SANDY SOILS**

This is a preplant or replant treatment. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Use a minimum of 1 to 1 1/4 pounds per 100 square feet. Expose to fumigation for 48 hours, covering treated area with a 4 mil tarpaulin. Will control disease to a depth of 4 feet. Aerate 2 weeks before setting transplants in treated area.

GREENHOUSE FUMIGATION

This fumigant may be used in field or in greenhouse. When used in greenhouse, the following safety precautions must be strictly observed:

PRIOR TO FUMIGATION: The use of methyl bromide in confined spaces presents a potential hazard to humans and plant life. Special precautions must be made in order that these potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that all safety precautions are strictly observed. Before the fumigation operation commences, the supervisor of the fumigation job shall have conducted proper training of all personnel involved in the fumigation (including use of safety equipment), removed all persons from the area not directly involved in the fumigation, and inspected the equipment to insure a proper aeration.

DURING FUMIGATION: The exposure time should be 48 hours. If a wind is blowing all injections should be made upwind from a previous injection site. Immediately after injection of the fumigant and tarping, a qualified person wearing protective equipment should monitor the area with a halide leak detector. If excessive leaks are found, the source of the leak should be resealed immediately. During this operation, all windows and doors should be open and fans operating to maximize ventilation.

ON-SITE PROTECTIVE EQUIPMENT: Although this fumigant contains chloropicrin, the absence of chloropicrin does not always indicate the absence of methyl bromide. Do not allow any person to enter the fumigated structure without the appropriate protective equipment from the time of injection of the fumigant until acceptable air concentration level readings are obtained using an approved detector. To maintain adequate safety standards, the following equipment must be present and accessible on the site during the entire fumigation operation: (1) one or more self-contained breathing apparatus; (2) one or more replacement air bottles per breathing apparatus; and (3) one or more halide leak detectors.

AFTER FUMIGATION: At the end of the exposure period, remove all seals and open all doors and windows that are operational. Allow for complete ventilation. Use ventilation fans whenever possible to remove fumigant from dead air pockets. Follow exactly the instructions in the entry restriction section of the Agricultural Use Requirements box.

Ornamental Trees,
Ornamental Shrubs
and Vines,
Vegetables for production
of transplants only.
Floral and Nursery Crops

FOR USE IN CALIFORNIA ONLY
ASPARAGUS AND LETTUCE

15 4 15

APPLICATION: Follow application directions as described for SEED AND PLANT BEDS.
DOSAGE AND USE TABLE:

Crop	Use	Rate	Aeration*
Asparagus	Fungus diseases (damping off, <i>Phythium</i> spp.) Weeds (grasses), Nematodes	300-400 lbs/A	Remove tarpaulin after 48 hrs
Lettuce	Weeds (including oxalis) Nematodes Big Vein	300-400 lbs/A 200-300 lbs/A	Remove tarpaulin after 48 hrs Remove tarpaulin after 48 hrs

*Aerate 14 days before planting.

LIMITATIONS: For use in California only. Do not harvest asparagus during year of treatment. Use on lettuce fields only once in 2 to 3 years.

FOR USE IN FLORIDA
CITRUS CONTROL OF PHYTOPHTHORA IN SANDY SOILS

This is a preplant or replant treatment. Trees which are planted in this treated soil will not bear harvestable fruit for a period of at least 24 months. Use a minimum of 1 to 1 1/4 pounds per 100 square feet. Expose to fumigation for 48 hours, covering treated area with a 4 mil tarpaulin. Will control disease to a depth of 4 feet. Aerate 2 weeks before setting transplants in treated area.

GREENHOUSE FUMIGATION

This fumigant may be used in field or in greenhouse. When used in greenhouse, the following safety precautions must be strictly observed:

PRIOR TO FUMIGATION: The use of methyl bromide in confined spaces presents a potential hazard to humans and plant life. Special precautions must be made in order that these potential hazards be minimized. It is the responsibility of the individual supervising the fumigation operation to see that all safety precautions are strictly observed. Before the fumigation operation commences, the supervisor of the fumigation job shall have conducted proper training of all personnel involved in the fumigation (including use of safety equipment), removed all persons from the area not directly involved in the fumigation, and inspected the equipment to insure a proper aeration.

DURING FUMIGATION: The exposure time should be 48 hours. If a wind is blowing all injections should be made upwind from a previous injection site. Immediately after injection of the fumigant and tarping, a qualified person wearing protective equipment should monitor the area with a halide leak detector. If excessive leaks are found, the source of the leak should be resealed immediately. During this operation, all windows and doors should be open and fans operating to maximize ventilation.

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AFTER FUMIGATION: At the end of the exposure period, remove all seats and open all doors and windows that are operational. Allow for complete ventilation. Use ventilation fans whenever possible to remove fumigant from dead air pockets. Follow exactly the instructions in the entry restriction section of the Agricultural-Use Requirements box.

TURF RENOVATION: same sites as listed above	800 lb/A	48 hrs	14 days if planted to transplants 3 days if seeded
NONFOOD AND NONFEED CROPS AREAS: same sites as listed above Vegetables for production of transplants only. Floral and Nursery Crops and Cover Crops**	800 lb/A	48 hrs	14 days if planted to transplants 3 days if seeded
Permanent Planting For: Tomatoes, Strawberries, Pineapples, Muskmelons Eggplants, Peppers, Broccoli, Cauliflower	240-400 lb/A	48 hrs	3 days if seeded 7-14 days if veg- etable growth set in treated soil
GRAPES: For control of Nematodes in light sandy soils and fine textured clay soils:	400-600 lb/A	5-7 days	14 days
Control of <i>Phytophthora</i> in light sandy soil and fine textured clay soils:	600 lb/A	5-7 days	14 days
Control of <i>Armillaria</i> in light sandy soils:	400 lb/A	5-7 days	14 days
Control of <i>Armillaria</i> in fine textured clay soil:	600 lb/A	5-7 days	14 days
DECIDUOUS FRUITS, NUTS, CITRUS AND OTHER PERENNIAL WOODY PLANTS			
Control of: <i>Phytophthora</i> root rot	400-650 lb/A	5-7	14 days
Control of: <i>Armillaria</i> root rot in sandy light and fine textured clay soil:	400-650 lb/A	5-7 days	14 days
CITRUS: For control of burrowing and root knot Nematodes	400-650 lb/A	5-7 days	In colder climates breat in fall and plant following spring
TREE SITES: For control of <i>Phytophthora</i> root rot	1-1 1/2 lb/ 100 sq.ft.	5-7 days	In warmer climates do not plant until 30 days after application
Control of <i>Armillaria</i> root rot in light sandy soils:	1-1 1/2 lb/ 100 sq.ft.	5-7 days	
Control of <i>Armillaria</i> in fine textured clay soil:	1-1 1/2 lb/ 100 sq.ft.	5-7 days	

temperature is below 50 degrees F.
It be used for either human food or animal feed.

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