

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.

**OBSERVE THE FOLLOWING
PRECAUTIONS:**

GENERAL PRECAUTIONS

1. Do not use in areas where there are children or animals.
2. Do not apply to plants, animals, or other living organisms.
3. Do not use in areas where there are children or animals.
4. It is extremely hazardous to the environment. Methyl Bromide is a greenhouse gas and a ozone depleting substance.
5. Obtain proper training and use appropriate protective equipment. For more information, see the Safety Data Sheet (SDS) for this product.

RESPIRATORY PROTECTION:

If the concentration of methyl bromide in the working area, as measured by a direct reading detector device, is 5 ppm or more, respiratory protection is required. If this concentration is exceeded at any time, all persons in the fumigation area must wear protective clothing and a NIOSH/MSHA approved self-contained breathing apparatus (SCBA) or combination air-supplied respirator. Do not use a U.S. filter, cartridge or canister respirator.

CLOTHING PRECAUTIONS:

1. Wear clean, dry clothing and shoes that are free of pesticides before wearing. Do not wear jewelry, gloves, or shoes that are contaminated with Methyl Bromide. Wash hands thoroughly with soap and water inside the fumigation area. If you are wearing protective clothing, eye protection is not required. Wear goggles or face shield and eye protection when handling liquid.
 2. After exposure, immediately remove all clothing and shoes. Do not reuse contaminated clothing until it has been thoroughly cleaned and separated. Contaminated clothing cannot be safely and quietly decontaminated.
 3. Do not wear gloves of any type, or other protective clothing or rubber boots.
- If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an intolerable source of irritation.

RESTRICTED USE PESTICIDE
DUE TO ACUTE TOXICITY

For retail sale, for use only by Certified Applicators, or persons under their supervision, and only for the uses listed by the Certified Applicator's Certificate.

METHYL BROMIDE 99

FOR USE ONLY BY PROFESSIONAL FUMIGATORS

ACTIVE INGREDIENTS:

METHYL BROMIDE

INERT INGREDIENTS:

CHLOROPICRIN, ODORIZING AGENT

TOTAL:

BEST AVAILABLE COPY

KEEP OUT OF REACH OF CHILDREN

DANGER



PEL

POISON

PRECAUTIONAL STATEMENTS: See the Precautionary Statements section of the Safety Data Sheet (SDS) for this product.

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

**STATEMENT OF PRACTICAL
TREATMENT**

IF INHALED: Get exposed person to fresh air. Move victim person to fresh air if breathing is not improving. Do not give mouth-to-mouth resuscitation if needed. Do not give artificial respiration if the person is breathing.

IF ON SKIN: Wash contaminated area thoroughly with soap and water. If the person is wearing contaminated clothing, remove it as soon as possible.

IF IN EYES: Hold eyes wide open and flush gently with clean water for at least 15 minutes.

NOTE TO PHYSICIANS: Early symptoms of overexposure include dizziness, headache, nausea and vomiting. Lung edema may develop if exposure is severe.

WARNING SIGNS: Structural Transportation, Space Fumigation

1. The applicator must placard or post all entrances to the fumigated area with signs bearing in English and Spanish:
 - (1) The signal word DANGER/PELIGRO and the skull and crossbones symbol.
 - (2) The statement, "Area under fumigation. DO NOT ENTER. NO ENTRAR".
 - (3) The date of fumigation.
 - (4) Name of fumigant used.
 - (5) Name, address, and telephone number of the applicator.
2. Do not remove a placard until the treated space is completely aerated. To determine whether aeration is complete, each fumigated site must be monitored and shown to contain less than 5 ppm methyl bromide. If less than 5 ppm methyl bromide is detected, the placard may be removed.
3. Boxcars must be placarded with D O T specified warning signs. Warning signs are available from your dealer or distributor.

SPILL OR LEAK PROCEDURE:

1. Evacuate the immediate area of the spill or leak. Use SCBA or combination air-supplied/SCBA respirator for entry into the affected area to correct problem. Move leaking or damaged cylinders or containers outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spill to evaporate. Do not permit entry into spill area by unprotected persons until the concentration of methyl bromide is determined to be less than 5 ppm (20 mg/cu.m).
2. Contaminated soil, water, and other cleanup debris is a toxic hazardous waste. Report spill to the National Response Center (800-424-8802) if reportable quantity of 1000 lbs. is exceeded.

arter exposure, accompanied by cardiac effects. These effects are the usual cause of death. Overexposure can result in blurred vision, gait, and mental imbalance, with profuse sweating after a period of no exposure. Blood chemistry suggests the occurrence, but not the extent of exposure. Treatment is symptomatic.

See Side Panel For Additional Precautions



Soil
Chem
Corporation
PRODUCTS

P.O. BOX 782 • HOLLISTER, CA 95023

E.P.A. EST. 8536-CA-1, 2, 3, 4

E.P.A. REG. NO. 8536-1

NET CONTENTS

BEST AVAILABLE COPY

supervision, and only for those uses directed by the Certified Applicator's certification.

METHYL BROMIDE 99.75%

USE ONLY BY PROFESSIONAL FUMIGATORS

ACTIVE INGREDIENTS:

ETHYL BROMIDE 99.75%

INERT INGREDIENTS:

CHLOROPICRIN, ODORIZING AGENT 0.25%

PURITY 100.00%

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

ADVERTENCIA AL USUARIO: Si usted no lee Inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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

STATEMENT OF PRACTICAL TREATMENT

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

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

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

REPORT TO PHYSICIAN: Early symptoms of overexposure are dizziness, headache, nausea and vomiting, weakness, and lapse. Lung edema may develop in 2 to 48 hours after exposure, accompanied by cardiac irregularities; these effects are the usual cause of death. Reported overexposure can result in blurred vision, staggering gait, and mental imbalance, with probable recovery after a period of no exposure. Beware of the possibility of delayed effects, but not the degree, of exposure. Treatment is symptomatic.

1. Do not use in areas where people are present. Do not use in areas where people are present.
2. When used for fumigation of enclosed spaces (hospitals, homes, warehouses, vaults, chateaus, greenhouses, box cars, ships, and other types of ventilated or partially covered areas), two persons trained in the proper use of methyl bromide must be present during introduction of the fumigant, one before aeration and after aeration when reentry. Two persons must not be present if a confined reentry (outside the area being fumigated).
3. Do not fumigate with this product when the temperature is below 40 degrees F.
4. Whenever possible, apply methyl bromide from outside of area being fumigated. Make sure the fumigant is properly sealed and applied. Do not use in areas where people are present during fumigation. They must be completely removed from the area.

AERATION AND REENTRY:

1. After fumigation, treated areas must be aerated until the concentration of methyl bromide is below 5 ppm (20 mg/m³).
2. Do not allow entry into the treated area by any person until the concentration of methyl bromide is below 5 ppm (20 mg/m³).

ENVIRONMENTAL HAZARD

This pesticide is toxic to wildlife. Do not use in areas where wildlife is present. This product is highly flammable. Do not use in areas where open flames, sparks, or other sources of ignition are present. This product is highly volatile and should be used in well-ventilated areas. Do not use in areas where people are present.

For space fumigation use, conduct area (especially a fumigation site with a Halide Dene) and any other areas where people are present to establish that dangerous levels of methyl bromide are not present (see Aeration Statement for Halide Dene). The high volatility of the fumigant permits it to be applied to the fumigated area and dissipate readily with suitable ventilation.

CHEMICAL HAZARD

Methyl bromide is practically nonflammable. There is a risk of explosion if the gas is heated above 100 degrees F. Do not use in areas where open flames, sparks, or other sources of ignition are present. Pilot lights and all other flames should be turned off.

Do not apply gas directly to metal surfaces because of its corrosive effect on certain metals. Do not use contact with equipment made of magnesium, aluminum, or zinc. The following materials can develop an undesirable reaction in structural fumigation and should be removed from the area being fumigated:

1. Explosives (a) Iodized salt, (b) Full-fat soya beans, (c) Certain kinds of materials that contain reactive sulfur such as some soap powders, some baking mixes, and black gunpowder.
2. Certain rubber goods (a) Sponge rubber, (b) Polyethylene, (c) Polypropylene, (d) Butyl rubber, (e) Neoprene, (f) Styrene-butadiene, (g) Other similar forms of reclaimed rubber.
3. Fur, chamois, and pillows (especially feather).
4. Leather goods (a) Light, (b) Dark, (c) Old, or (d) Any material that has been treated with oil or grease.
5. Wools (a) Feathers, (b) Wool, (c) Woolen goods, (d) Woolen sweaters, (e) Woolen shirts, (f) Woolen yarn.
6. Various plastics (a) Those that are adversely affected by the fumigation of woolen goods, (b) Those that are adversely affected by the fumigation of woolen goods, (c) Those that are adversely affected by the fumigation of woolen goods, (d) Those that are adversely affected by the fumigation of woolen goods.
7. Paper (a) Silver chloride, (b) Certain types of paper that are adversely affected by the fumigation of woolen goods, (c) Those that are adversely affected by the fumigation of woolen goods.
8. Photographic chemicals (a) Used in photographic processes, (b) Used in photographic processes.
9. Glass blocks, or mixed concrete with a high water content.
10. Any materials that may contain reactive sulfur. THESE PRODUCTS MAY HINDER EFFECTIVENESS OF METHYL BROMIDE. (Chemical Abstracts, the material relating the effective concentration and contact time.)
11. If there is a question whether a material may be used in a fumigation, it may be run with a small amount of methyl bromide.

Side Panel For Additional Precautionary Statements.



Son
Chemicals
Corporation
PRODUCTS

P.O. BOX 782 • HOLLISTER, CA 95024

E.P.A. EST. 8536-CA-1,2,3,4;FL-1

E.P.A. REG. NO. 8536-17

NET CONTENTS LBS.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

STORAGE AND DISPOSAL

STORAGE AND HANDLING:

Store in dry, cool, well-ventilated area under lock and key as a pesticide storage area. Do not contaminate water by storage. Persons moving or handling containers wear protective clothing. Open container only in a well-ventilated area wearing protective clothing, and respiratory protection if necessary. Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough mechanical shock such as dropping, bumping, dragging.

NOT AVAILABLE COPY

ed in photo processing darkrooms
ate which occasionally picks up
ain reactive sulfur compounds.
EFFECTIVENESS OF THE FUMIGANT:
absorbs the methyl bromide,
nitration and contaminating the
a material may develop an odor,
with a small quantity of the

ACCEPTED
SEP 24 1990
United States Department of Agriculture
Substance Act, as amended, sec 2:
pesticide registered under
EPA Reg. No. 8536-17

C
PC

FOR USE
1. Do not use this product
with its labeling

DISPOSAL
1. Area under lock and key. Post
of contaminate water, food, or
handling containers should wear
only in a well-ventilated area
respiratory protection if neces-
ed to a rack or wall to prevent
subjected to rough handling or
bumping, dragging, or sliding

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

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SEP 24 1980

U.S. DEPARTMENT OF AGRICULTURE
Pesticide Act, amended by the
FIFLRA registered: 1001
Reg. No. 8536-17

WARRANTY

Warrants that the product conforms to its chemical
is reasonably fit for the purposes stated on the label
and directions with directions under normal conditions of use.
Warranty nor any other warranty of MERCHANTABILITY or
PARTICULAR PURPOSE, express or implied, extends to the
effect contrary to label instructions, or under abnormal
under conditions not reasonably foreseeable to seller,
at the risk of any such use.

MBL #7111 10/88

POISON

6

INHALATION HAZARD

NA 1955
METHYL BROMIDE AND
NON-FLAMMABLE, NON
LIQUIFIED COMPRESSED
GAS MIXTURE, LIQUID

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COMPANY
NUMBER

8536

PRODUCT
SERIAL NO.

15

LABEL
APPROVAL
DATE

2-10-82

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

DANGER

THIS PRODUCT IS A HIGHLY TOXIC MATERIAL AND
MAY BE HARMFUL TO HUMANS AND DOMESTIC ANIMALS.
EYE CONTACT WITH THIS PRODUCT MAY CAUSE
SEVERE IRRITATION. INHALATION OF THIS PRODUCT
MAY BE FATAL OR CAUSE DELAYED LUNG INJURY.
LIQUID AND VAPOR CAUSE BURNS WHICH
MAY BE DELAYED. OBSERVE THE FOLLOWING
PRECAUTIONS:

**EXTREMELY HAZARDOUS LIQUID AND VAPOR
UNDER PRESSURE**

**INHALATION MAY BE FATAL OR CAUSE
DELAYED LUNG INJURY**

**LIQUID AND VAPOR CAUSE BURNS WHICH
MAY BE DELAYED**

OBSERVE THE FOLLOWING PRECAUTIONS

RESPIRATORY PROTECTION

WARNING SIGNS

**WHEN FUMIGATING SOIL
OBSERVE THESE PRECAUTIONS**

RESTRICTED USE PESTICIDE

For restricted sale to and use only by Certified
applicators under their state's provisions.
This is an insecticide registered with the EPA.

SPECIMEN

**METHY
BROMI
100
FUMIGAN**

FOR USE AS AN AID IN THE CONTROL OF
STRUCTURAL PESTS, HOUSEHOLD
STORED PRODUCT PESTS, AND AS
SOIL TREATMENT

KEEP OUT OF REACH OF CHILDREN
DANGER  **POISON**

SEND FOR A DOCTOR IMMEDIATELY
IN CASE OF EXPOSURE

STATEMENT OF PRACTICAL USE

1. This product is a highly toxic material and may be harmful to humans and domestic animals. Eye contact with this product may cause severe irritation. Inhalation of this product may be fatal or cause delayed lung injury. Liquid and vapor cause burns which may be delayed. Observe the following precautions:

2. Extremely hazardous liquid and vapor under pressure.

3. Inhalation may be fatal or cause delayed lung injury.

4. Liquid and vapor cause burns which may be delayed.

5. Observe the following precautions:

6. When fumigating soil, observe these precautions:

EXPERIMENTED WITH THIS PRODUCT... REPRESENTATIVE OF SOIL... FEDERAL... LABEL... PART...

EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE

INHALATION MAY BE FATAL OR CAUSE DELAYED LUNG INJURY
LIQUID AND VAPOR CAUSE BURNS WHICH MAY BE DELAYED

OBSERVE THE FOLLOWING PRECAUTIONS:

AVOID BREATHING VAPORS

RESPIRATORY PROTECTION


WARNING SIGNS

WHEN FUMIGATING SOIL OBSERVE THESE PRECAUTIONS

METHYL BROMIDE 100 FUMIGANT

FOR USE AS AN AID IN THE CONTROL OF STRUCTURAL PESTS, HOUSEHOLD INSECT PESTS, STORED PRODUCT PESTS, AND AS A PRE-PLANT SOIL TREATMENT

KEEP OUT OF REACH OF CHILDREN

DANGER  **POISON**

SEND FOR A DOCTOR IMMEDIATELY IN CASE OF EXPOSURE

STATEMENT OF PRACTICAL TREATMENT

SOIL CHEMICALS CORPORATION

EPA REG. NO. 4516-A-1-2-3-4-FL-1
EPA REG. NO. 4516-A-5

NET CONTENTS 1 LB

CHEMICAL HAZARD

STORAGE AND RETURN OF FUMIGANT CYLINDERS

STORAGE

SPILL OR LEAK PROCEDURE

RETURN OF CYLINDERS

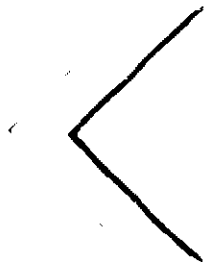
SHIPPING

HANDLING

RESTRICTED USE PESTICIDE

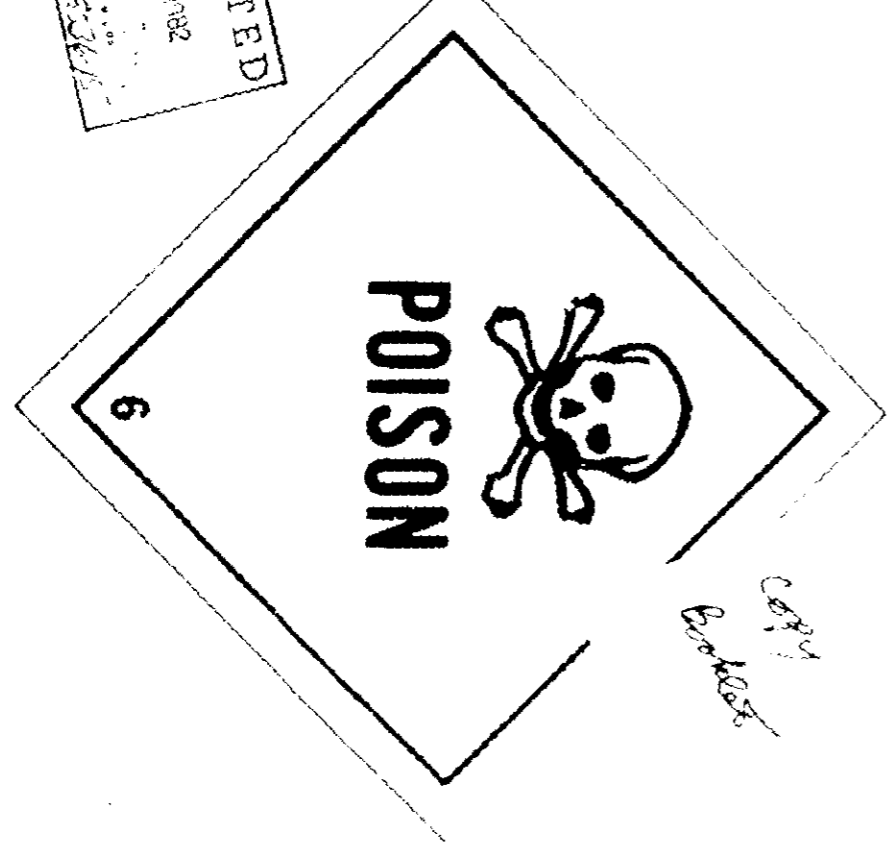
SOIL CHEMICALS CORPORATION

100



101

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FED



METHYL BROMIDE
LIQUID

For retail sale to and use only by Certified Applicator
or persons under their direct supervision and only for
those uses covered by the Certified Applicator's registration

SPECIMEN

METHYL BROMIDE 100 FUMIGANT

FOR USE AS AN AID IN THE CONTROL OF
STRUCTURAL PESTS, HOUSEHOLD INSECT
STORED PRODUCT PESTS, AND AS A PRE-
SOIL TREATMENT.

2000-01-01 10:00:00

100

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

THIS FUMIGANT IS AN EXTREMELY HAZARDOUS MATERIAL AND MUST BE HANDLED WITH CARE ONLY BY THOSE WHO ARE EXPERIENCED WITH THE PROPER USE OF THIS PRODUCT. FOR FURTHER REPRESENTATIVE INFORMATION, REFER TO THE LABEL FOR THE CORRECT PRECAUTIONS. READ AND FOLLOW ALL LABEL DIRECTIONS AND PRECAUTIONS. PARTICULAR PRECAUTIONS:

**EXTREMELY HAZARDOUS LIQUID AND VAPOR
UNDER PRESSURE**

**INHALATION MAY BE FATAL OR CAUSE
DELAYED LUNG INJURY**

**LIQUID AND VAPOR CAUSE BURNS WHICH
MAY BE DELAYED**

OBSERVE THE FOLLOWING PRECAUTIONS:

DO NOT BREATHE VAPOR

RESPIRATORY PROTECTION

WARNING SIGNS

**WHEN FUMIGATING SOIL
OBSERVE THESE PRECAUTIONS:**

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicator or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

**METHYL
BROMIDI
100
FUMIGANT**

FOR USE AS AN AID IN THE CONTROL
STRUCTURAL PESTS, HOUSEHOLD INSECT P
STORED PRODUCT PESTS, AND AS A PRE-P
SOIL TREATMENT.

KEEP OUT OF REACH OF CHILDREN

DANGER  **POISON**

SEND FOR A DOCTOR IMMEDIATELY
IN CASE OF EXPOSURE

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES Flush Immediately With Plenty Of Water For
Least 15 Minutes And Get Medical Attention

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

SOIL CHEMICALS CORPORATION

P. O. BOX 511

MORGAN HILL CALIF. 95037

EPA EST 8536-CA 1, 2, 3, 4 FL 1

EPA REG NO 8536 1

NET CONTENTS

LBS

NOTE CAREFULLY

RESTRICTED USE PESTICIDE

is restricted to use only by trained applicators or persons under their direct supervision. For more information on the Restricted Applicability of this pesticide, see the label.

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METHYL BROMIDE 100 FUMIGANT

USE AS AN AID IN THE CONTROL OF
TURAL PESTS, HOUSEHOLD INSECT PESTS,
D PRODUCT PESTS, AND AS A PRE-PLANT
SOIL TREATMENT.

©1975 E.I. du Pont de Nemours & Co.

KEEP OUT OF REACH OF CHILDREN

DANGER



POISON

SEEK IMMEDIATE
MEDICAL ATTENTION
AND CALL A DOCTOR IMMEDIATELY
IN CASE OF EXPOSURE

STATEMENT OF PRACTICAL TREATMENT

If inhaled, get the person into fresh air. If necessary, give artificial respiration. If swallowed, give large amounts of water. If on skin, wash thoroughly with soap and water. If in eyes, flush with large amounts of water. If inhaled, get the person into fresh air. If necessary, give artificial respiration. If swallowed, give large amounts of water. If on skin, wash thoroughly with soap and water. If in eyes, flush with large amounts of water.

ENVIRONMENTAL HAZARD

CHEMICAL HAZARD

STORAGE AND RETURN
OF FUMIGANT CYLINDERS

STORAGE

LEAK PROCEDURE

RETURN OF CYLINDERS

on for 24 to 48 Hrs.

CHEMICALS CORPORATION

P.O. BOX 541 MORGAN HILL, CALIF. 95037

EPA EST 8536 CA 1 2 3 4 FL 1
EPA REG NO 8536 15

HANDLING

NET CONTENTS LBS

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ENVIRONMENTAL HAZARD

CHEMICAL HAZARD

STORAGE AND RETURN OF FUMIGANT CYLINDERS

AERATION

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. To determine the completeness of aeration, use a suitable Halide gas detector.

Wear a gas mask during aeration *only* if there is any doubt as to completeness of aeration.

Certain materials at risk: Methyl Bromide during fumigation and desorption during aeration may call for extended monitoring and aeration periods.

HALIDE GAS DETECTOR: Color of the flame is an index of the concentration of Methyl Bromide present. The following table provides an index of flame color and concentration of Methyl Bromide present.

METHYL BROMIDE LEVEL	FLAME COLOR IN DAYLIGHT
0	None
1	None
2	None
3	None
4	None
5	None
6	None
7	None
8	None
9	None
10	None
11	None
12	None
13	None
14	None
15	None
16	None
17	None
18	None
19	None
20	None
21	None
22	None
23	None
24	None
25	None
26	None
27	None
28	None
29	None
30	None
31	None
32	None
33	None
34	None
35	None
36	None
37	None
38	None
39	None
40	None
41	None
42	None
43	None
44	None
45	None
46	None
47	None
48	None
49	None
50	None
51	None
52	None
53	None
54	None
55	None
56	None
57	None
58	None
59	None
60	None
61	None
62	None
63	None
64	None
65	None
66	None
67	None
68	None
69	None
70	None
71	None
72	None
73	None
74	None
75	None
76	None
77	None
78	None
79	None
80	None
81	None
82	None
83	None
84	None
85	None
86	None
87	None
88	None
89	None
90	None
91	None
92	None
93	None
94	None
95	None
96	None
97	None
98	None
99	None
100	None

Flame color is a function of the flow rate of the gas. It is best to use the flame color as a guide for the concentration of the gas.

DRAEGER GAS DETECTOR: Read Flammable Detector Tube range.
100 ppm Methyl Bromide may be detected at the Threshold Limit Value (TLV) of 15 ppm.
DETECTORS AVAILABLE FROM SOL CHEMICALS CORPORATION.



OF CYLINDERS

Faint, illegible text in the left margin, possibly describing technical specifications or safety instructions.

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BEST AVAILABLE COPY

NA 1581
METHYL BROMIDE,
LIQUID

7-14-81

ACCEPTED
FEB 10 1982
EPA Reg. No. 8536-15

SPACE FUMIGATION

AREAS TO BE FUMIGATED: Under sealed tarpaulins or in closed, confined spaces such as textile mills, warehouses, buoys, fishing boats, warehouses, and large ships and their cargo stowage spaces.

INSECTS AND PESTS CONTROLLED

Granary Weevil	Chickadee	Black Fly
Rice Weevil	Agouti or Grain Mite	Red-footed Booby
Confused and Red Flour Beetles	Norfolk Orange Worm	Mealy Bugs
Drugg Store Beetle	<i>Braconid</i> spp.	Vegetable Weevils
Codling	Wasp	Yellow Weevils
Mealworms	Rusty Grain Beetle	Grain Mites
Bean Weevil	Merchant Grain Beetle	Fireworms
Dried Fruit Beetle	European Grain Borer	Knit Fly Beetle
Raisin Moth	Red Legged Ham Beetle	Longhorn Beetle
Almond Moth	European Pinewood Moth	Anthrenus spp.
Indian Meal Moth	Tobacco Moth	Cigarette Beetle
Mediterranean Flour Moth	Japanese Beetle	Head Flying Beetle
Mites	Thrips	Lesser Grain Borer
Sweet Potato Weevil	Flat Grain Beetle	Yellow Weevils
Oriental Fruit Moth	Golden Nematode	Small Holes (all species)
Corn Borer	Tobacco Beetle	Many Fruit Beetles
Mag and Rat	White-Faced Beetle	Flies (all types)
Carpet Beetle	Birdies	Aphids
Warehouse Beetle	Spiders	Ants (all species)

PREPARATION FOR FUMIGATION:

- Remove fresh fruit, seeds, bulbs and living plants from the area to be fumigated as they may be damaged during treatment. Certain food products (e.g. citrus fruit) as in list of which are specified by certain quantities in this list, poses for low level fumigation. and fumigate only those products in which a tolerable level of residue has been established by the U.S. Food and Drug Administration.
- Do not fumigate food products other than those in which residues of the fumigant registered with the Environmental Protection Agency (EPA).
- Do not use dosages higher than those recommended in this manual unless residues in excess of those permitted are expected for agricultural uses. Excess residues may be detrimental to the health of humans and animals.
- Do not fumigate grain if moisture is high. Temperature should be below 60° F. in the case of excessive loading.
- Space to be fumigated should be covered with tarpaulins and sealed. In the case of buildings and cargo stowage spaces, external openings should be sealed with caulking, cement, or other suitable material. Internal openings should be sealed with screening and chimney caps or plugging them with cement or other suitable material. If the screened openings with a wide commercial masking tape. Screens and tarpaulins should be closed. Any broken windows panes should be replaced. The external door openings should be wedged tight, locked and caulked. All cracks, holes and openings should be caulked and sealed. The floor should be covered with tarpaulins and sealed.

Special care should be taken to seal up ports, portholes and other openings on ships. A door should be kept closed and sealed with caulking. The seal should be checked for leaks by spreading a piece of heavy paper or cloth over the opening and blowing air on it. A leaky door should be repaired immediately. If the door is not repaired, it should be sealed with caulking. The door should be sealed with caulking and the door should be sealed with caulking.

FUMIGATION: Fumigation should be done by a person who has received training in the safe use of fumigants. The fumigant should be used in accordance with the instructions on the label. The fumigant should be used in a well-ventilated area. The fumigant should be used in a well-ventilated area. The fumigant should be used in a well-ventilated area.

PROCEDURES Ship

IMPORTANT

These procedures are intended for use by a person who has received training in the safe use of fumigants. The fumigant should be used in accordance with the instructions on the label. The fumigant should be used in a well-ventilated area. The fumigant should be used in a well-ventilated area.

Prefumigation Procedures

1. The fumigation chamber should be prepared by sealing all external openings with caulking and other suitable material. Internal openings should be sealed with screening and chimney caps or plugging them with cement or other suitable material. If the screened openings with a wide commercial masking tape. Screens and tarpaulins should be closed. Any broken windows panes should be replaced. The external door openings should be wedged tight, locked and caulked. All cracks, holes and openings should be caulked and sealed. The floor should be covered with tarpaulins and sealed.

The person who is to be fumigated should be covered with tarpaulins and sealed. In the case of buildings and cargo stowage spaces, external openings should be sealed with caulking, cement, or other suitable material. Internal openings should be sealed with screening and chimney caps or plugging them with cement or other suitable material. If the screened openings with a wide commercial masking tape. Screens and tarpaulins should be closed. Any broken windows panes should be replaced. The external door openings should be wedged tight, locked and caulked. All cracks, holes and openings should be caulked and sealed. The floor should be covered with tarpaulins and sealed.

During the fumigation, the person who is to be fumigated should be covered with tarpaulins and sealed. In the case of buildings and cargo stowage spaces, external openings should be sealed with caulking, cement, or other suitable material. Internal openings should be sealed with screening and chimney caps or plugging them with cement or other suitable material. If the screened openings with a wide commercial masking tape. Screens and tarpaulins should be closed. Any broken windows panes should be replaced. The external door openings should be wedged tight, locked and caulked. All cracks, holes and openings should be caulked and sealed. The floor should be covered with tarpaulins and sealed.

- The fumigation chamber should be prepared by sealing all external openings with caulking and other suitable material. Internal openings should be sealed with screening and chimney caps or plugging them with cement or other suitable material. If the screened openings with a wide commercial masking tape. Screens and tarpaulins should be closed. Any broken windows panes should be replaced. The external door openings should be wedged tight, locked and caulked. All cracks, holes and openings should be caulked and sealed. The floor should be covered with tarpaulins and sealed.

EXAMPLES OF	Examples of Pests Controlled	Dosage in lbs per 1000 cu ft	Exposure time in hours	Minimum Temperature in °F	Estimated Time and Cost
1.	Mealybugs	0.5	4	40	4-6
2.	Knit fly beetle	0.5	4	40	4-6
3.	Yellow weevils	0.5	4	40	4-6
4.	Grain mites	0.5	4	40	4-6
5.	Head flying beetle	0.5	4	40	4-6
6.	Lesser grain borer	0.5	4	40	4-6
7.	Many fruit beetles	0.5	4	40	4-6
8.	Flies (all types)	0.5	4	40	4-6
9.	Ants (all species)	0.5	4	40	4-6
10.	Spiders	0.5	4	40	4-6
11.	Chickadee	0.5	4	40	4-6
12.	Agouti or grain mite	0.5	4	40	4-6
13.	Norfolk orange worm	0.5	4	40	4-6
14.	Braconid spp.	0.5	4	40	4-6
15.	Wasp	0.5	4	40	4-6
16.	Rusty grain beetle	0.5	4	40	4-6
17.	Merchant grain beetle	0.5	4	40	4-6
18.	European grain borer	0.5	4	40	4-6
19.	Red legged ham beetle	0.5	4	40	4-6
20.	European pinewood moth	0.5	4	40	4-6
21.	Tobacco moth	0.5	4	40	4-6
22.	Japanese beetle	0.5	4	40	4-6
23.	Thrips	0.5	4	40	4-6
24.	Flat grain beetle	0.5	4	40	4-6
25.	Golden nematode	0.5	4	40	4-6
26.	Tobacco beetle	0.5	4	40	4-6
27.	White-faced beetle	0.5	4	40	4-6
28.	Birdies	0.5	4	40	4-6
29.	Spiders	0.5	4	40	4-6
30.	Swarm of the grapevine	0.5	4	40	4-6
31.	Black fly	0.5	4	40	4-6
32.	Red-footed booby	0.5	4	40	4-6
33.	Mealy bugs	0.5	4	40	4-6
34.	Vegetable weevils	0.5	4	40	4-6
35.	Yellow weevils	0.5	4	40	4-6
36.	Grain mites	0.5	4	40	4-6
37.	Fireworms	0.5	4	40	4-6
38.	Knit fly beetle	0.5	4	40	4-6
39.	Longhorn beetle	0.5	4	40	4-6
40.	Anthrenus spp.	0.5	4	40	4-6
41.	Cigarette beetle	0.5	4	40	4-6
42.	Head flying beetle	0.5	4	40	4-6
43.	Lesser grain borer	0.5	4	40	4-6
44.	Yellow weevils	0.5	4	40	4-6
45.	Small holes (all species)	0.5	4	40	4-6
46.	Many fruit beetles	0.5	4	40	4-6
47.	Flies (all types)	0.5	4	40	4-6
48.	Aphids	0.5	4	40	4-6
49.	Ants (all species)	0.5	4	40	4-6
50.	Spiders	0.5	4	40	4-6

Precautions and Procedures During Voyage

- Necessary to enter into a... (text is very faint and difficult to read)
- Personal protective equipment... (text is very faint and difficult to read)

(Additional text in the right margin, mostly illegible due to low contrast and scan quality)

MOTH				
ambrosia	Sawtoothed grain beetles	1-2	3	60
	Flour beetles and grain meal moths			4
corn	Sawtoothed grain beetles	1	1	7
	Flour beetles and grain meal moths	1	1	5
of fumigant	Sawtoothed grain beetles	1-5	1	4
rate per	Flour beetles and grain meal moths			4



It may be desirable to fumigate a site before the Methyl Bromide is used as a fumigant. This is done by using a fumigant such as Methyl Bromide or Phosphine gas. When fumigation is completed, Acute products should be applied to the site.

Acute products should be applied to the site before the Methyl Bromide is used as a fumigant. This is done by using a fumigant such as Methyl Bromide or Phosphine gas. When fumigation is completed, Acute products should be applied to the site.

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. The soil should be ripped to not less than 30 inches and the surface 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 Ambrosia and mealworms 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 the Methyl Bromide dispenser to the cylinder of Methyl Bromide and attach the cylinder to the applicator. The cylinder should be measured with the dispenser and then applied through the tree.

BACK HOING: Field tests have demonstrated that this is an effective method for preparing the tree site for fumigation, especially in areas where a tarpaulin has been used. The degree of compaction of the soil. The size of the prepared site is dependent upon the degree of soil compaction. Deep soil compaction requires preparation of a site the size of the planter box in which the tree is to be grown. First a hole is dug a single foot wide and the back hoe 5 feet deep and 6 feet long. This hole is filled with a feet of soil above the applicator at this level. A prepared tank for the release of the date of fumigant for 100 square foot tree site. When fumigant has been released the hole should be tightly covered to seal fumigant in the site.

AUGERING: This method is suitable in noncompacted soils or soils that are lightly stratified. Dig a hole 2 feet deep with a back hoe two feet deep. A prepared tank for the release of the date of fumigant for 100 square foot tree site. When fumigant has been released the hole should be tightly covered to prevent the rapid escape of fumigant.

BEST AVAILABLE COPY

... .. the Methyl Bromide at a depth of
an 20 inches. To seal fumigant after application for disease control, cover immediately with
tarpaulin by means of a mechanical tarp layer. Do not remove tarpaulin until after the
possible period indicated on the dosage table has passed. Prior to application the soil should
to not less than 30 inches and the surface should be as dry as possible. Excess moisture
deep penetration of the Methyl Bromide. Peat soils and soils very high in organic content
be fumigated to control Armillaria with Methyl Bromide. Clay soils and soils that
dry may be dried out by planting sudan grass and withholding water from it during the
This will increase penetration of Methyl Bromide. Do not apply Methyl Bromide to soil
ses will bear within 24 months.

**WOODS, FRUITS, NUTS, CITRUS, VINEYARDS AND OTHER
FRUIT CROPS** Do not harvest crop for 24 months after fumigation.

... .. apply Methyl Bromide at a rate and exposure time that is indicated on the dosage
seal fumigant after application for disease control, cover immediately with tarpaulin
by means of a mechanical tarp layer. The soil should be tilled to not less than 30 inches
surface should be as dry as possible. Excess moisture will block deep penetration of the
fumide. Peat soils and soils very high in organic content should not be fumigated to
meters with Methyl Bromide. Clay soils and soils that drain poorly may be dried out by
sudan grass and withholding water from it during the summer. This will increase penetration
Bromide. Back hoeing and augering are alternative methods of applying Methyl Bromide
site. Attach a Methyl Bromide dispenser to the cylinder of Methyl Bromide and fasten a
ylene applicator tube. The correct dosage can be measured with the dispenser and then
through the tube.

NOTE: Field tests have demonstrated that this is an effective method for preparing
sites for fumigation, especially in areas where a hardpan has developed through
of the soil. The size of the prepared site is dependent upon the degree of soil compaction.
-packed soil requires preparation of a site the size of the planter box in which the tree is
n. For stratified soils a single cut the width of the bark hole, 5 feet deep and 6 feet long is
-500 sq ft site with 2 feet of soil, place applicator tube at this level, complete bark hole, and
-100 square foot tree site. When fumigant has been released, remove applicator
and stamp firmly, overlapping to seal fumigant in the site.

NOTE: This method is suitable in hard, compacted soils or soils that are lightly tilled. Dig
tree with auger to a depth of two feet, insert applicator in the hole, or three feet if the
-100 sq ft tree site. When fumigant has been released, remove applicator
and stamp firmly to prevent fog loss or escape of fumigant.