

HANDLING PRECAUTIONS

ANGER POISON



HAZARD TO HUMANS AND DOMESTIC ANIMALS:

This fumigant is a highly hazardous material and must be handled with care only by those individuals experienced with its proper use. Consult your Soil Chemicals Corp. representative for correct procedure.

The Chloropicrin portion of this fumigant has the capacity to cause marked irritation to the upper respiratory tract, and a strong lachrymator (tear-producing eye irritant). Low concentrations, below those necessary to cause serious systemic irritation, are capable of causing severely painful eye irritation hence will be voluntarily tolerated. However, the effect may be so powerful that a person may become temporarily blinded and panic-stricken and that in turn may lead to accidents.

PRECAUTIONS TO FOLLOW PRIOR TO FUMIGATION:

1. Before using this fumigant, read and follow all labeled directions and product literature.
2. Comply with all local regulations and ordinances. Obtain an application permit from the Agricultural Commissioner.
3. It is advisable to supply your physician with information on Methyl Bromide and Chloropicrin. Contact Soil Chemicals Corp. for literature on Methyl Bromide and Chloropicrin.
4. Obtain medical assistance at once in case of illness after exposure, and do not take conditions which could accidentally cause further exposure until recovery is complete.
5. Never fumigate alone. It is imperative to always have an assistant and proper protective equipment available to aid in case of accidents.
6. Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct the helpers in the mechanical operation of the tractor and how to safely work with the tractor and driver while fumigating.
7. Handle this fumigant in the open, with the operator upwind, from the container where there is good ventilation.
8. **RESPIRATORY PROTECTION:** Do not breathe fumes. A gas mask may be carried in each service vehicle. Because of the lachrymatory action of this fumigant, it will serve as a warning agent to help prevent over-exposure. However, vapor exposure may occur in a confined space, a full face gas mask with an air supply tank or a respirator is recommended. Read and follow the gas mask manufacturer's recommendations. A full face gas mask with a fresh black canister meeting NIOSH specifications for organic vapors can also be used, under certain circumstances where the vapor concentration is known to be under 2% by volume (5 lb. per 1000 cu. ft.). Canisters should be used for no more than that period recommended by the manufacturer. Destroy used canisters by crushing. Chloropicrin must not be depended upon as an identifying agent when a canister gas mask is used.
9. Wear safety glasses when working with this fumigant. Exposure of eyes to splashing liquid fumigant may render an individual helpless.
10. Do not spill. If liquid fumigant splashes or spills on shoes or clothing, remove them at once, as fumes from the contaminated area may be an irritative source of irritation. If liquid contacts skin where rashes or hot spots are known to occur, wash immediately with soap and water. Air exposed shoes or clothing outside and do not wear until free of all traces of fumigant.
11. Do not wear gloves.
12. Always have adequate clean water available to wash skin and/or flush eyes. 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 additional water must be available from the service truck. The water must be drinkable but in containers marked (water not for drinking).
13. Check fumigant pressure system for leaks before beginning application.

PRECAUTIONS TO FOLLOW DURING FUMIGATION:

14. 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 areas with plastic tarpaulins for a minimum of 48 hours.
15. Do not apply to areas adjacent to fields where crops are growing or near buildings inhabited by humans or livestock unless the area is properly covered with plastic tarpaulins as specified by the local Agricultural Commissioner.
16. Do not fit inlets on shanks to turn at end of a pass until fumigant has drained from system following closure of shank valve.
17. Trash pulled by the shanks to the ends of the field when fumigating must be covered by fitting the shanks, then covering the trash with polyethylene film before making the turn for the next pass.
18. In case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Get off tractor and get to a place where the problem can be observed without exposure to fumes. Approach from upwind, with respiratory protection if required, and make necessary repairs.
19. 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.

SEE HANDLING PRECAUTIONS CONTINUED IN THE THIRD COLUMN

RESTRICTED USE PESTICIDE

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

PIC-BROM 33

PREPLANT SOIL FUMIGANT

ACCEPTED JAN 4 1984	ACTIVE INGREDIENTS	100%
	METHYL BROMIDE	67%
	CHLOROPICRIN	33%

reg. listed under
EPA Reg. No. 8536-5

BEST EQUIPMENT AVAILABLE

KEEP OUT OF REACH OF CHILDREN

ANGER POISON



- EXTREMELY HAZARDOUS LIQUID AND VAPOR UNDER PRESSURE
- INHALATION MAY BE FATAL OR CAUSE DELAYED LUNG INJURY
- LIQUID AND VAPOR CAUSE BURNS WHICH MAY BE DELAYED

DO NOT BREATHE VAPOR • USE ONLY WITH ADEQUATE VENTILATION • DO NOT GET IN EYES, ON SKIN OR CLOTHING • DO NOT USE ORDINARY FLEET PROTECTIVE CLOTHING INCLUDING GLOVES AND BOOTS • KEEP AWAY FROM HEAT • KEEP FROM OPEN FLAMES AND ANIMALS AWAY FROM AREAS UNDER TREATMENT • DO NOT SPILL • IF SPILLAGE OCCURS, CONTAIN IT IMMEDIATELY AND CONFINE FOR TREATMENT • IN CASE OF EMERGENCY, HAVE AWAY ALL AVAILABLE FIRST AID KIT • MASK • BEFORE TREATMENT, READ OTHER LABELS FOR ALL TOXIC SAFETY PRECAUTIONS

SEND FOR A DOCTOR IMMEDIATELY IN CASE OF EXPOSURE

FIRST AID

IF INHALED — Carry Patient To Fresh Air. Call Physician At Once. Make Sure Patient Can Breathe Freely. Keep Patient Warm. Give Artificial Respiration If Breathing Has Stopped. Oxygen Should Be Administered Only By Qualified Personnel.

IF ON SKIN — Immediately Remove All Contaminated Skin Covering Including Shoes, Clothing And Adhesive Or Other Bandages. Wash Skin Thoroughly With Soap And Water. If Irritation Or Blisters Develop, Get Medical Attention. Do Not Reuse Shoes Or Clothing Until Free Of All Contamination.

IF IN EYES — Flush Immediately With Plenty Of Water For At 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 531 MORGAN HILL CALIF 95037

E.P.A. EST. 8536-CA-1, 2, 3, 4; FL-1
E.P.A. REG. NO. 8536-5

NET CONTENTS LBS.

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SOIL CHEMICALS CORPORATION

P.O. BOX 531 MORGAN HILL, CALIF. 95037

E.P.A. EST. 8536-CA-1, 2, 3, 4; FL-1
E.P.A. REG. NO. 8536-5

HANDLING PRECAUTIONS (CONTINUED), PRECAUTIONS TO FOLLOW AFTER FUMIGATION:

- 20 Post all treated areas with warning signs. Avoid fish from Soil Chemicals Corp.
- 21 Keep all animals, children and unauthorized people away from areas under fumigation during 48 hour exposure period and during removal of chlorpyrifin.
- 22 Do not feed domestic animals on crop residues unless an EPA tolerance exists for such use. Examples are, but not limited to, seeded or volunteer cover crops growing on soil which has been fumigated as a preplant treatment for a registered crop use.
- 23 **NOTE CAREFULLY** Fumigation may temporarily raise the level of ammonium 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, incorporate granular or bulk fertilizers, avoid using fertilizers containing ammonium salts and use only fertilizers containing nitrate salts until after the crops are well established and the soil temperature is above 65° F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

ENVIRONMENTAL HAZARD

This fumigant is toxic to fish and wildlife. It should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment or disposal of water.

CHEMICAL HAZARD

Do not use containers or equipment made of magnesium, aluminum or other alloys as under certain conditions this fumigant may be severely corrosive to such metals. Do not permit water to be used in clean fumigant pressure systems corrosion will result. Describe satisfactorily for this purpose.

DIRECTIONS FOR USE

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

BEST DOCUMENT AVAILABLE

STORAGE AND RETURN OF FUMIGANT CYLINDERS

STORAGE

- Do not store with food, feeds or clothing.
- Storage areas should be:
 - (1) Secured by lock and key.
 - (2) Padded as pesticide storage.
 - (3) Away from dwellings and work areas.
 - (4) Dry and cool.
 - (5) Well ventilated.

SPILL OR LEAK PROCEDURE

Evacuate affected area, use respiratory protection and remove clothing. For liquid spill, remove spill to an unoccupied area, wash fumigant into soil or cover with soil if possible. Allow to evaporate. Do not permit entry to area until free of fumes.

RETURN OF CYLINDERS

- (1) Cylinders are the property of Soil Chemicals Corp.
2350 East 22nd Street
Long Beach, CA 90810
and should be returned promptly by the following method:
Soil Chemicals Corp.
7610 Hwy. 41 North
Farmersville, CA 93341
- (2) When a cylinder is empty, the valve should be closed, the safety cap screwed on the valve outlet, and the protection covering (see product literature) on the upper part of the cylinder removed.
- (3) Empty cylinders with safety caps should be returned by the following method:
When a cylinder is empty, the protection covering, remove it and send it to (contact Soil Chemicals Corp.) return instructions.
- (4) Containers should never be refilled by the user, except as provided for on the product literature.

SHIPPING

This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as Methyl Bromide and more than 2% Chloropicrin mixture, Liquid class B poison and no exemptions from specification packaging, marking and labeling are allowed. Describe empty cylinders as having formerly contained Methyl Bromide and more than 2% Chloropicrin mixture, Liquid. Do not ship with food, feeds or clothing.

HANDLING

- (1) The valve protection bonnet and safety cap should be removed only when fumigant is about to be removed from the cylinder.
- (2) Cylinders should never be hoisted, or rough handling or treatment which would shock such as dropping, bumping, dragging or dragging.
- (3) Ropes, rings, hooks, lugs, and similar handling devices should not be used for lifting cylinders.
- (4) A suitable hand truck, fork truck, or similar device in which the cylinders can be firmly secured, should be used for transporting the heavier cylinders.

DIRECTIONS FOR USE

GENERAL INFORMATION

This material is a preparation of fumigant for use in the control of certain pests and diseases caused by certain species of *Fusarium*, *Aspergillus*, and *Phytophthora* and certain nematodes, including *Metaditylus*, *Pratylenchus*, *Tylenchus*, *Xiphinema*, *Cricomyx*, and *Paratylenchus* species, broadleaf and grassy weeds (including quackgrass and crabgrass), bromegrass, common lambsquarters, horsegrass, nutgrass, and certain grasses. This fumigant is not effective against narrow-leaved dodder, some species of clover, and certain other hard-headed weeds. It is to be used in soil to be planted to the crops listed below.

SOIL PREPARATION

Prior to application the soil should be in condition for planting and with sufficient moisture to support seed germination. When fumigating for the control of nutgrass, the soil should be rippled to a depth of at least 15 inches.

APPLICATION

Apply this fumigant by means of chisels spaced from 17 to 18 inches apart and 5 to 6 inches below the soil surface to seal the fumigant after application or draw it back immediately behind chisels and then cover with a gas-tight tarpaulin.

DOSEAGE TABLE

Land To Be Planted To	Lbs Per Acre
Strawberries	225-350
Tomatoes	225-350
Peanut	225-350
Cornflower	225-350
Broccoli	225-350
Melons	225-350
Peppers	225-350
Eggplants	225-350
Floral Crops	225-400
Nursery Crops	225-400
Plant & Seed Beds	225-400

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.

- Use the higher rates for nutgrass control.
- Parts grown for transplanting.

AERATION

Remove tarpaulin after 48 hours. Allow the soil to aerate for two weeks before planting if odors of fumigant persist beyond this two week period; otherwise plow the soil to help aeration.

FOR USE IN CALIFORNIA ONLY ASPARAGUS AND LETTUCE

APPLICATION: For use in California, see label directions and use table.

CROP	USE	RATE	AERATION
Asparagus	Fungus diseases, including crown rot, soil-borne weeds, grasses, and nematodes	225-350 lbs/A	Remove tarpaulin after 24-48 hours
Lettuce	Root rot	225-350 lbs/A	Remove tarpaulin after 24-48 hours
	Warts, root rot, and soil-borne nematodes	225-350 lbs/A	Remove tarpaulin after 24-48 hours

LIMITATIONS: This fumigant is not to be used in California for the control of nematodes in citrus groves.

FOR USE WEST OF ROCKY MOUNTAINS ONIONS, DIRECT SEEDED

APPLICATION: Treatment can be made whenever soil conditions are suitable in either spring or summer. Early fall treatments are best for land to be planted in the following years. For the best control of onion pests as described above.

USE: For control of onion root rot, grasses, and nematodes.

DOSAGE: 400 lbs/Acre.

LIMITATION: Use restricted to west of the Rocky Mountains; do not treat citrus groves or other sensitive crops.

Citrus Soil for Control of Phytophthora in Florida Sandy Soils: This is a special use of this fumigant. Treat at 200 lbs/Acre in the fall. Use a minimum of 1 1/2 inches per 100 square feet. Expose to the gas for 24 hours, using treated area within 24 hours. Do not use in a zone of citrus groves. Harvest citrus fruit before planting citrus in the field and

Greenhouse Fumigation: This fumigant may be used in a greenhouse. When used in a greenhouse, the following safety precautions must be strictly observed:

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 and, in the use of safety equipment, removed all persons from the area not directly involved in the fumigation and inspected the equipment to insure a proper operation.

If wind is blowing, all fumigations should be made downwind from a previous fumigation site. Immediately after fumigation and tarping, a qualified person wearing a proper safety 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 its operation, all windows and doors should be open and fans operating to maximize ventilation. The fumigated area must be placarded at all entrances with signs containing at least the signal word DANGER and the Skull and Crossbones, and the words: Area Under Fumigation, do not enter until completely aerated, the date of fumigation, name of the fumigant used, emergency telephone number for contact, and the name and address of the fumigator. Do not remove warning signs until the fumigated area is completely aerated and safe for entry, as indicated by a suitable detector. Exposure time should be 24-48 hours.

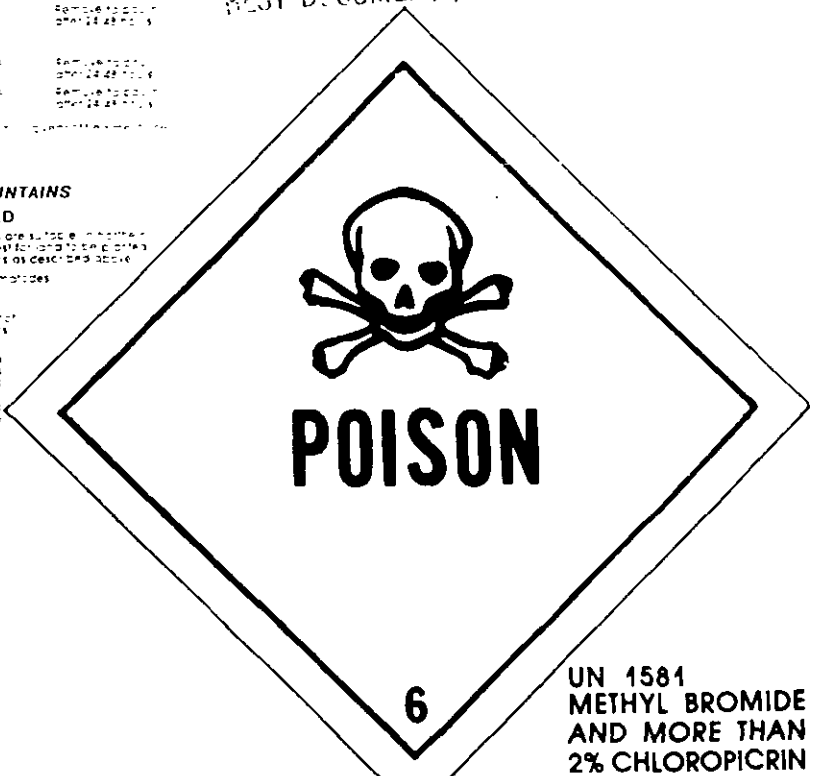
Although this fumigant contains Chloropicrin, the absence of Chloropicrin does not always indicate the absence of Methyl Bromide. Under no circumstances shall any person be allowed to enter the fumigated structure without the appropriate protective equipment from the time of fumigation until acceptable readings are obtained using an approved detector. To maintain adequate safety standards, the following equipment must be present on site during the entire fumigation operation: 1) one or more full face gas masks or self-contained breathing apparatuses; 2) one or more replacement blank canisters per mask or one canister per breathing apparatus; 3) one or more halide leak detectors.

A 15 ppm threshold limit value (TLV) for Methyl Bromide has been established. TLV is defined as the concentration below which personal protective devices are not required for persons entering or within a hazardous environment. Persons not wearing protective equipment should not enter the fumigated area until monitoring devices show Methyl Bromide concentrations of 15 ppm or less.

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.

BEST DOCUMENT AVAILABLE



UN 1581
METHYL BROMIDE
AND MORE THAN
2% CHLOROPICRIN