

PM32 8536-5 10/16

**RESTRICTED USE PESTICIDE  
DUE TO ACUTE TOXICITY**

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**

**ACTIVE INGREDIENTS:**

METHYL BROMIDE 67%

CHLOROPICRIN 33%

**INERT INGREDIENTS:**

0%

**TOTAL**

**100%**

KEEP OUT OF REACH OF CHILDREN

DANGER



1308  
PELIGRO

POISON

PRECAUCION AL USARIO: Si usted no lee Ingles, 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

IF INHALED: Get exposed person to fresh air. Keep warm. 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.

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

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

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

See Side Panel For Additional Precautionary Statements.



Soil  
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. 8536-05

NET CONTENTS . . . . . LBS.

**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 WHICH 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 IMMEDI-  
ATELY. EARLY SYMPTOMS OF CHLOROPICRIN OVEREXPOSURE ARE  
LACHRYMATION, RESPIRATORY DISTRESS AND VOMITING.**

**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 Chloropicrin and 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.)

### RESPIRATORY PROTECTION:

If the concentration of methyl bromide in the working area, as measured by a direct-reading detector device (such as a Draeger gas detector) does not exceed 5 ppm (20 mg/cu.m), no 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/SCBA respirator (such as a U.S. Divers' Survivair or comparable device).

Under normal soil fumigation conditions, the concentration 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 SCBA or combination air-supplied/SCBA respirator must be available and will be required for entry into an affected area in the event of a leak or spill.

### CLOTHING PRECAUTIONS:

1. Wear loose clothing and socks that are cleaned after each wearing. Do not wear jewelry, gloves, or tight clothing when handling. Methyl bromide is heavier than air and may be trapped inside clothing and cause skin injury. If full-face respiratory protection is not required, wear goggles or full face shield for eye protection when handling liquid.
2. Following exposure, immediately remove clothing, shoes, and socks. Do not reuse contaminated clothing or shoes until thoroughly cleaned and aerated. Drenched clothing cannot be adequately decontaminated.
3. Do not wear gloves of any type, or rubber protective clothing, or rubber boots.
4. If liquid fumigant splashes or spills on clothing, remove them at once, as fumes will be an intolerable source of irritation.

### 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"; (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 up wind 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) and chloropicrin less than 0.1 ppm.
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.

## 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, 3 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 3 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.

SEE PRECAUTIONS CONTINUED IN THIRD COLUMN

**PRECAUTIONS, CONTINUED:**

**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".
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.

**FOLLOWING FUMIGATION:**

1. Post all treated areas with warning signs, available from your dealer or representative.
2. No children, unauthorized people, or animals should be in the fumigation area for 48 hours.
3. When tarpaulin is used, two trained persons must be present during removal of the tarpaulin.

**SPILL AND LEAK PROCEDURE:**

1. In case of a rupture of hose or fitting while applying fumigant, immediately stop tractor and motor. Evacuate immediate area of spill or leak. Use SCBA or combination air-supplied/SCBA respirator for entry into affected area to correct the problem. Approach from upwind to make necessary repairs.
2. Do not reenter area without respiratory protection until spill has evaporated or leak has been fixed.

**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.

## 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 a secure manner either outdoors under ambient conditions or indoors in a well ventilated area. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage. Persons moving or handling containers should 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 subject to rough handling or mechanical shock such as dropping, bumping, dragging, or sliding. Do not use rope slings, hooks, tongs, or similar devices to unload cylinders. Transport cylinders using hand truck, fork truck or other device to which the cylinder can be firmly secured. Do not remove valve protection bonnet and safety cap until immediately before use. Replace safety cap and valve protection bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap onto valve outlet, and replace protection bonnet before returning to shipper. Only the registrant is authorized to refill cylinders. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinder.

#### RETURN OF CYLINDERS:

Cylinders are the property of:

Soil Chemicals Corporation  
8770 Highway 25  
Mollister, CA 95023

Soil Chemicals Corporation  
2060 East 220th Street  
Long Beach, CA 90810

and should be returned promptly by collect auto freight. Do not ship cylinders without safety caps or valve protection bonnets. When a cylinder is partially full and there is no further requirement for the product, contact SCC for return instructions.

#### SHIPPING:

This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as Chloropicrin and Methyl Bromide mixtures, 2.3, UN 1581, Poison-Inhalation hazard, Hazard Zone B and no exemptions from specifications, packaging, marking, or labeling are allowed. Describe empty cylinders as having last contained Chloropicrin and Methyl Bromide mixtures (inhalation hazard). Do not ship with foods, feeds, or clothing.

#### DISPOSAL:

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. 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 instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

### ENVIRONMENTAL HAZARD

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

### CHEMICAL HAZARD

Do not use containers or application equipment made of magnesium, aluminum, or their alloys, as under certain conditions this fumigant may be severely corrosive to such metals. Do not permit water to be used to clean fumigant pressure system as corrosion will result. Diesel oil is satisfactory for this purpose.

4 of 6

## 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.

**GENERAL INFORMATION:** This fumigant is a preplant soil fumigant for control of soil-borne pests as listed: Granville wilt, blackshank, and other diseases caused by certain species of Rhizoctonia, Pythium, Fusarium, and Phytophthora, wireworms, nematodes (including Meloidogyne, Pratylenchus, Tylenchus, Hirschmannia, Criconosoides, and Paratylenchus, species), broadleaf and grassy weeds (including: quackgrass, annual bluegrass, broomsrape, common lambsquarters, torpedograss, nutsedge, and bermudagrass). This fumigant is not effective against mallow, filaree, dodder, some species of clover, and certain other hard seeded weeds. It is to be used in soil to be planted to the crops listed in the dosage table.

**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 nutsedge, the soil should be ripped to a depth of at least 15 inches.

**APPLICATION:** Apply this fumigant by means of chisels spaced from 12" to 18" apart and 5 to 8 inches below the soil surface. To seal the fumigant after application, drag or cultipack immediately behind chisels, and then cover with a gas-tight tarpaulin.

### DOSEAGE TABLE:

Land To Be Planted To:	Lbs. Per Acre 1,2
Broccoli	225 - 350
Cauliflower	225 - 350
Squash	225 - 350
Floral Crop	225 - 400
Nutsedge	225 - 350
Nursery Crops	225 - 400
Peppers	225 - 350
Pineapples	225 - 350
Flint and Seed Beds 3	225 - 400
Strawberries	225 - 350
Tobacco	45 - 120
Tomatoes	225 - 350

1. 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.
2. Use the higher rate for nutsedge control.
3. For production of replants or nonfood/feed crops. The nonfood/feed crops can not be used for human food or animal feed consumption.

**AERATION:** Remove tarpaulin after 48 hours. Allow the soil to aerate for 2 weeks before planting. If odors of fumigant persist beyond this two-week period, disc or plow the soil to help aeration.

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FOR USE WEST OF ROCKY MOUNTAINS  
ONIONS, DIRECT SEEDED

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**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 above.

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

**DOSE:** 450 Lbs/Acre

**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 above.

CROP	USE	DOSE AND USE TABLE		AERATION
			RATE	
Asparagus	Fungus diseases (damping off, Phythium spp)	450-500 lbs/A	Remove tarpaulin after 48 hrs.	
	Weeds (grasses), Nematodes			
Lettuce	Weeds (including oxalis)	450-600 lbs/A	Remove tarpaulin after 48 hrs.	
	Nematodes Big Vein	300-450 lbs/A	Remove tarpaulin after 48 hrs.	

**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.

**ACCEPTED**  
FEB 2 1993  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 4536-5

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**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.



5 of 6

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

This is 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 diseases 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:** 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.

**PLACARDING OF AREA:** The fumigated area must be placarded (See directions under "Warning Signs"). Do not remove warning signs until the fumigated area is completely aerated and safe for entry, as indicated by a suitable detector.

**PROTECTIVE EQUIPMENT:** 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 injection of the fumigant until acceptable readings are obtained using an approved detector. To maintain adequate safety standards, the following equipment must be present 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; (3) One or more halide leak detectors.

**AERATION AND REENTRY:** 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. After fumigation, treated areas must be aerated until the level of methyl bromide is below 5 ppm. Do not allow entry into the treated area by any person before this time unless provided with loose clothing and a respiratory protection device (SCBA or combination air-supplied SCBA).  
Note: Certain materials absorb methyl bromide during fumigation and desorption during aeration may call for extended monitoring and aeration periods.

**DRAEGER GAS DETECTOR, BENDIX GASTECH DETECTOR:** (Hand Pump and Detector Tube) Methyl bromide may be detected at the Threshold Limit Value (T.L.V.) of 5 ppm. Detectors are available from Soil Chemicals Corporation.

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

METHYL BROMIDE ppm	LB/1000 CU.FT.	FLAME COLOR (DAYLIGHT*)
0	0	None
25	0.00625	None
50	0.0125	Moderate Green
125	0.031	Green
250	0.0625	Strong Green
500	0.125	Strong Blue-Green Fringe
800	0.20	Strong Blue-Green
1000	0.25	Blue

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

**NOTE:** Halide lamp detector is suitable for locating leaks and for determining extent of aeration down to approximately 50 ppm. It is not suitable for clearing a structure for reentry.



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**POISON GAS**

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**CHLOROPICRIN AND  
METHYL BROMIDE  
MIXTURES  
UN 1581  
INHALATION HAZARD**