



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

JUN 4 a 1804

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 04/27/94 in Response to PR Notice 93-7

EPA Reg. No. 8622-43

METAPICRIN FUMIGANT

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted 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.



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

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

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

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

Sincerely,

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

Attachment

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Poison liquid and vapor. Inhalation of vapors may be fatal. Contact with liquid may produce burns. Do not get into eyes, on skin, or clothing. Harmful or fatal if swallowed.

This product is chloropicrin, a volatile-liquid tear gas. Chloropicrin vapor is very irritating to the upper respiratory tract, and even at low levels can cause painful irritation to the nose and throat, and to the eyes, producing tearing. If these symptoms occur, leave the fumigation area immediately. Continued exposure after irritation is evident, or higher concentrations, may cause painful irritation to the eyes or temporary blindness, which may cause panic that may in turn tead to further accidents.

NOTICE TO PHYSICIAN; Metapicrin is a volatile liquid that is the active ingredient in tear gas. As a gas it is a powerful lachrymator. Early symptoms of overexposure are lachrymation, respiratory distress and vomiting. Fulmonary edema may develop later. Treatment is symptomatic.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to wildlife. Do not discharge effluent containing this product into takes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge 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.

PHYSICAL OR CHEMICAL HAZARDS: Chloropicrin may be corrosive under certain conditions. DO NOT USE WATER to clean equipment. Flush equipment with kerosene or fuel oil. Do not use handling equipment or containers made from magnesium alloy, aluminum, or alkali metals. Chloropicrin is a non-flammable fiquid.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/m²). If the air concentration level exceeds 0.1 ppm, an air purifying respirator must be worn. If the air concentration level exceeds 4 ppm, an air supplying respirator must be worn. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category II on an EPA chemical resistance category selection chart.

Applicators and Other Handlers Must Wear:
Loose-fitting or well venticated long sleeved shirt and long pants
Shoes and socks
Full-face shirldgors safety glasses with brow and temple shierts Do
NOT wear goggles.) When the acceptable air concentration
level is above to a 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 chloropiciin in the working area is measured to be less than 0.1 ppm.

A respirator is required under the following circumstances:

-if the air concentration level exceeds 0.1 ppm at any time, applicators and other handlers must wear (a) a respirator with an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), OR (b) a respirator with a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)."

-if the air concentration level exceeds 4 ppm at any time, applicators and other handlers must wear (a) a supplied-air respirator (MSHA/NIOSH approval number prefix TC-19C) OR (b) a self-contained breathing apparatus (SCBA) (MSHA/NIOSH approval number prefix TC-13F).

RESTRICTED

For retail sale to and use only by Certified A and only for those uses covered



ACTIVE INGREDIENTS:

CHLOROPICRIN

ACUTELY TO

13.8 lbs. Active Ingredient

KEEP OUT OF RE

DANGER



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STATEMENT OF PR

In all cases of overexposure, get med to a doctor or emergency treatment f

If Inhaled — Get exposed person to fre breathe freely. If breathin preferably mouth-to-moul

If on skin—Immediately remove all of items covering skin. Wast soap and water.

unconscious person.

If in eyes - Hold eyelids open and flu for at Last 15 minutes

See side panels for addition

BEST AVAILABLE COPY

WORK SAFETY REQUIREMENTS

worn. the air concentration level exceeds 1 ppa, an airsupplying respirator must be worn. The air concentration levels measured by a direct reading detection device, such as a Matheson-Kitagawa.

PERSONAL PROTECTIVE EQUIPMENT

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Loose fitting or well ventuated long-sleeved shirt and long pants
Shoeseand sor s
Fift face shirt domestery glasses with brow and temple shirts to
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level is above the programme a respirator is required,
protect the eyes by wearing a full-face respirator.

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WORK SAFETY REQUIREMENTS #

- Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing, for rubber boots when handling. Chloropicrin is heavier than air and can be trapped inside clothing and cause kin injury.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product.
 Do not reuse them.
- Clean PPE after each day's use. 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. Follow PPE manufacturer's instructions for cleaning maintaining protective eyewear, face shields 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.

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STATEMENT OF PRACTIC

In all cases of overexposure, get medical at to a doctor or emergency treatment facility

tf inhaled —Get exposed person to tresh air.
breathe freely. If breathing has
preferably mouth-to-mouth. Do
unconscious person.

If on skin-Immediately remove all contantems covering skin. Wash contagonal water.

If in eyes —Hold eyelids open and flush will for at least 15 minutes.

See side panels for additional pri

EPA REG. NO. 8622-43

Distributed by:

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(meriBrom, Inc.

Chemi

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

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linder the Fet Fundicide, and an amended, f registered under X622

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

METAPICRIN

For soil, space and vault fumigants

By Wt. **ACTIVE INGREDIENTS:** CHLOROPICRIN99.0% INERT INGREDIENT: 1.0% TOTAL . . . 100%

ACUTELY TOXIC CHEMICAL

13.8 lbs. Active Ingredient per gal. (LIQUID IN CYLINDER)

KEEP OUT OF REACH OF CHILDREN

PELIGRO

DANGER



PELIGRO

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

STATEMENT OF PRACTICAL TREATMENT

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

- If inhaled -- Get exposed person to fresh air, Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. Do not give anything by mouth to an unconscious person.
- If on skin-immediately remove all contaminated clothing, shoes, and other items covering skin. Wash contaminated skin area thoroughly with soap and water.
- If In eyes Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes.

See side panels for additional precautionary statements.

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DIRECTIONS FC

It is a violation of Federal Law to use this prod labeling.

Do not apply this product in a way that w persons, either directly or through drift. in the area during application. For any r State or Tribe, consult the agency respon

PLACARDING OF FUMIGATED AR

The applicator (or supervisor of th entrances to the fumigated area with sign

- skult and crossbones symbol
- "DANGER/PELIGRO,"
- "Area under fumigation, DO
- *Chloropicrin Fumigant in v
- the date and time of fumigat

name, address, and telephon

Do not allow entry by unprotected perso the signs are removed. Such signs must concentration level of chloropicrin is me Signs must remain legible during the ent

Only a certified applicator (or someon may remove warning signs at entrances

AGRICULTURAL USE RI

Use this product only in accordance wit Protection Standard, 40 CFR 170. This for the protection of agricultural worke greenhouses, and handlers of agricultur requirements for training, decontamina assistance. It also contains specific insti to the statements in this labeling about restricted-entry intervals, and notificati in this box only apply to uses of this pro Worker Protection Standard (WPS).

No instructions elsewhere on this lab complying with the requirements of t

ENTRY RESTRICTIONS:

Greenhouse Space Fumigation: Ent would otherwise he permitted under the a correctly trained and equipped handltask permitted by the WPS - is PROIII (entire enclosed building/structure) fro aeration reduces the air concentration working area to less than 0.1 ppm.

Greenhouse Soil Fumigation: Entry otherwise be permitted under the WPS correctly trained and equipped handles permitted by the WPS -- is PROHIBIT (entire enclosed building/structure) fr hours after application AND until the



PELIGRO

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EPA REG. NO. 0622-43

☐ EPA EST. NO.	10163-AZ-1
☐ EPA EST. NO.	15298-IS-01
☐ EPA EST. NO.	29516-FL-04
☐ EPA EST. NO.	29516-NC-01

Distributed by:

IN CASE OF EMERGENCY CONTACT:

∡lmeriBrom.Inc.

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

FAX: (212) 286-4475

Chemtrec (800) 424-9300

AmeriBrom West

Call Collect: (805) 988-9749

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

NRPWRev 3	Net contents:	LBS./	KGS.	4/94

ACCEPTED with COMMENTS In EPA Letter Dated

JUN 4 9 1991

Under the Federal Insecticide. Fundicide, and Rodenticide Act as amended for the pesticide registered under EPA Reg. No.

0 9 Use this product only in accordance with its la Protection Standard, 40 CFR 170. This Standa for the protection of agricultural workers on f greenhouses, and handlers of agricultural pest requirements for training, decontamination, a assistance. It also contains specific instruction to the statements in this labeling about person restricted-entry intervals, and notification to in this box only apply to uses of this product t Worker Protection Standard (WPS).

No instructions elsewhere on this labeling complying with the requirements of the WI

ENTRY RESTRICTIONS:

Greenhouse Space Fumigation: Entry (incl would otherwise be permitted under the WPS a correctly trained and equipped handler who task permitted by the WPS -- is PROHIBITE! (entire enclosed building/structure) from the aeration reduces the air concentration level of working area to less than 0.1 ppm.

Greenhouse Soil Fumigation: Entry (includ otherwise be permitted under the WPS) by an correctly trained and equipped handler who is permitted by the WPS -- is PROHIBITED in (entire enclosed building/structure) from the hours after application AND until the air con chloropicrin in the working area is measured Until the aeration of the soil is complete (u handlers are permitted in the greenhouse ON concentration level of chloropicrin in the wor 0.1 ppm. If tarps are used for the application prohibited during tarp removal and until the less than 0.1 ppm.

Outdoor Soil Fumigation: Entry (including otherwise be permitted under the WPS) by ar correctly trained and equipped handler who i permitted on this labeling -- is PROHIBITED application until 48 hours after application. used for the application, non-handler entry is being removed.

NOTIFICATION: Notify workers of the ap orally and by posting fumigant warning signs, "Placarding of Fumigated Areas" section of the fumigant warning sign instead of the WPS sig follow all WPS requirements pertaining to loc timing of posting and removal.

Greenhouses -- Soil or Space Fumigation: signs outside all entrances to the entire green building/structure).

Outdoor Soil Fumigation: Post the fumigan to treated areas.

PPE FOR ENTRY DURING THE ENTRY PPE for entry that is permitted by this labeling to Humans and Domestic Animals" section of

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DIRECTIONS FOR USE

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

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

PLACARDING OF FUMIGATED AREAS

The applicator (or supervisor of the application) must placard all entrances to the fumigated area with signs bearing:

- · skull and crossbones symbol
- · "DANGER/PELIGRÓ,"
- * Area under fumigation, DO NOT ENTER/NO ENTRE,"
- · "Chloropicrin Fumigant in use,"
- · the date and time of fumigation, and
- · name, address, and telephone number of the applicator.

Do not allow entry by unprotected persons into the fumigated area until the signs are removed. Such signs must only be removed when the air concentration level of chloropicrin is measured to be less than 0.1 ppm. Signs must remain legible during the entire posting period.

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

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:

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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 building/structure) from the start of application until aeration reduces the air concentration level of chloropicrin— the working area to less than 0.1 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 hailding/structure) from the start of application until 48

PESTICIDE STORAGE.

PESTICIDE STORAGE AND HANDLING: { key. Post as a pesticide storage area.

DO NOT CONTAMINATE WATER, FOOD (secured to a rack or wall to prevent tipping. C or mechanical shock such as dropping, bu slings, hooks, tongs or similar devices to unk fork truck or other device to which the cyli

Persons moving or handling containers sho in a well-ventilated area wearing protective

container disposal: When cylinder is tight, screw cap onto valve outlet, and replication only the registrant is authorized to refill cylingly registrant's instructions for return or

PESTICIDE DISPOSAL: Pesticide wastes a violation of Federal Law. If these wastes instructions, contact your State Pesticide or Waste representative at the nearest EPA Finstructions for return of partially empty cy

RETURN OF CYLINDERS:

- (1) Cylinders are the property of the manufbe returned promptly by collect freight
- (2) Do not ship cylinders without safety ca
- (3) When a cylinder is partially full and ther the manufacturer or distributor for reti
- (4) Containers should never be refilled by purpose.

SPECIFIC DIF

This fumigant is a highly hazardous mater in its proper use. Before using, read and

All persons working with this fumigant mus in the use of required respirator equipment proper use of the fumigant.

When used for furnigation of enclosed sp (house and structures, warehouses, vaults, and other transport vehicles), two persons at all times during introduction of the furn

Do not furnigate with this product when so

SPILL AND LEAK PROCEDU

Evacuate everyone from the immorentry into affected area to correct equipment (including prescribed). Humans section of this labeling, outdoors or to an isolated locatic Work upwind, if possible. Allow absorb onto vermiculite, dry sand Such material should be disposed facility. Only correctly trained at to perform such cleanup. Do not by any other person until the con-

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 building/structure) from the start of application until aeration reduces the air concentration level of chloropicrin in the working area to less than 0.1 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 building/structure) from the start of any lication until 48 hours after application AND until the air concentration level of chloropicrin in the working area is measured to be to less than 0.1 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 chloropicrin in the working area remains less than 0.1 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 0.1 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 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 building/structure).

Outdoor Soil Fumigation: Post the fumigant warning signs at entrances to treated areas.

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

SPECIFIC DIRECTI

This furnigant is a highly hazardous material and in its proper use. Before using, read and follow

All persons working with this furnigant must be kr in the use of required respirator equipment and d proper use of the furnigant.

When used for fumigation of enclosed spaces in the contract of the contract of

Do not furnigate with this product when soil temp

SPILL AND LEAK PROCEDURES

Evacuate everyone from the immediate entry into affected area to correct probe equipment (including prescribed respir Humans section of this labeling. Move outdoors or to an isolated location. O Work upwind, if possible. Allow spille absorb onto vermiculite, dry sand, eart Such material should be disposed of or facility. Only correctly trained and PP to perform such cleanup. Do not perm by any other person until the concentrate less than 0.1 ppm.

SOIL FUM

Metapicrin may be used as a preplant soil fumion pests if present in soil at time of treatment. Soil or suppression of plant-parasitic nematodes and bacterial pathogen Pseudomonas solanacear Fusarium. Pyrenochaeta, Pythium, Rhizoclonia clubroot organism Plasmodiophora, and the soil of certain soil-infesting insects such as cutworms as well as suppression of weeds it used with a Reep pets, livestock, and other dotreated area during application, duspecified for applications in Dire Temoval of tarpaulin, if used.

WHEN TO TREAT: Furnigate at least 14 days p suitable. For best results, soil should be tilled to at depth of application between 60 Deg. F and 8t ture is below 50 Deg. F. Soil should contain adeq tion. Fall treatment is suggested for fields that w soil temperatures.

SOIL PREPARATION: For best furnigant penetr be worked into the soil long enough before treat Deep tillage (e.g., 12 to 18 inches) often improved leaving as few clods as possible. Optimum seed tive furnigation. Do not furnigate dry soil.

APPLICATION: For field application as an overtype applicator having chisels spacer no more gant 6.8 inches below the soil surface. To seal in with a plastic tarp. Alternate sealing methods in float to firm the soil surface immediately behind surface of soil inch deep. For application as a should be applied using one chisel shank per row to

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PESTICIDE STORAGE, HANDLING AND DISPOSAL

PESTICIDE STORAGE AND HANDLING: Store in dry, cool, ventilated area under lock and key. Post as a pesticide storage area.

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE: Store cylinders upright, secured to a rack or wall to prevent tipping. Cylinders should not be subjected to rough handling or mechanical shock such as dropping, bumping, or dragging, or sliding. Do not use rope stings, 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.

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

CONTAINER DISPOSAL: When cylinder is empty close valve by turning clockwise until hand tight, screw 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 cylinders.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide 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, or follow registrant's instructions for return of partially empty cylinders.

RETURN OF CYLINDERS:

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

soil surface and sealed by listing a high, wide be with a bed-shaper. Furnigation of small areas or casing may be made by applying Metapicrin with inch depth in a grid pattern with injection points involving the use of a plastic tarpaulin remove th to Table for dosage rates for specific crops. Do

WHEN TO PLANT: The soil should not be distur plant seeds or transplants until the fumigant odor ing treatment will retard diffusion of the fumigan period. Should these conditions occur, hasten a injection, taking care to avoid reinfestation of the ment and untreated soil.

Metapicrin Dosage Rates and

Crop	Manne
All crops* (including greenhouse, nursery, and outside beds)	Cultipackin
	Plastic (A)
Greenhouse beds	Plastic (A)
Mushroom casing soil	Water plus newspaper
Potting soil	Water or pl
Seedbeds - Celery (Florida)	Water or pl
Seedbeds (Other)	Water or pt
Seed flats	Plastic (A)

(A) Best results are obtained by covering beds wit after treatment. A water seal maintained for 24 hou tarpaulin on potting soil and seed flats for 24 hoc

'Suggested broadcast recommended rates for sp.

This furnigant 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.

SPECIFIC DIRECTIONS FOR USE

All persons working with this furnigant 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.

When used for furnigation of enclosed spaces where no commodities are or will be stored, (house and structures, warehouses, vaults, chambers, greenhouses, trucks, vans, boxcars, ships and other transport vehicles), two persons trained in the use of this product must be present at all times during introduction of the fumigant, testing and aerations periods

Do not furnigate with this product when soil temperature is below 50° F, at a depth of 6 inches.

SPILL AND LEAK PROCEDURES

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 respirator) 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 or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility. 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 concentration of chloropicrin is measured to be less than 0.1 ppm.

Preplant Soil Rate

Strawberry cropland **Tomatoes Onions** Engplants Cucumbers Melons Sweet Potatoes Yams Tobacco

Bow or bed applications may be made at the broproportionately less per acre depending on the rov or bed

SPACE AND VAULT FUMIGA

When using *1ETAPICRIN as a space, greenhouse placard or post all entrances to the fumigated a previously listed under "Placarding of Furnigated

A. SPACE FUMIGATION (not containing raw ag mites, cockroaches, silverfish and fungi, use 1 pou Increase dosage 11/4 to 11/2 pounds per 1000 cubic le Do not treat empty spaces where commodities w

SPECIFIC DIRECTIONS FOR USE

This fumigant is a highly hazardous material and : ...uld be used only by individuals trained in its proper use. Before using, read and follow all label precautions and directions.

All persons working with this furnigant 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 furnigant.

When used for fumigation of enclosed spaces where no commodities are or will be stored, (house and structures, warehouses, vaults, chambers, greenhouses, trucks, vans, boxcars, ships and other transport vehicles), two persons trained in the use of this product must be present at all times during introduction of the fumigant, testing and aerations periods.

Do not furnigate with this product when soil temperature is below 50° F, at a depth of 6 inches.

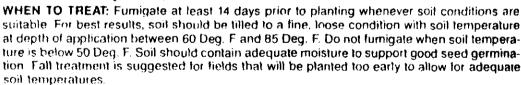
SPILL AND LEAK PROCEDURES

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 respirator) 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 or to absorb onto vermiculite, dry sand, earth, or similar absorbent material. Such material should be disposed of on site or at an approved disposal facility. 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 concentration of chloropicrin is measured to be less than 0.1 ppm.

SOIL FUMIGATION

Metapicrin may be used as a preplant soil furnigant for control of many economic soilborne pests if present in soil at time of treatment. Soil furnigation with Metapicrin provides control or suppression of plant-parasitic nematodes and disease causing organisms including the bacterial pathogen Pseudomonas solanacearum, fungi in the genera Cylindrocladium, Fusarium. Pyrenochaeta, Pythium, Rhizoctonia, Sclentina, Sclentium, and Verticiflum, the clubroot organism Plasmodiophora, and the soil pox organism Actinomyces ipomoea. Control of certain soil-infesting insects such as cutworms, grubs and wireworms may also be obtained as well as suppression of weeds if used with a tarpaulin

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, if used.



SOIL PREPARATION: For best furnigant penetration and soil sealing, plant remains should be worked into the soil long enough before treatment to allow for maximum decomposition. Deep tillage (e.g. 12 to 18 inches) often improves results. Till the soil to a very fine condition, leaving as few clods as possible. Optimum seedbed moisture is an essential factor for effective furnigation. Do fiot furnigate dry soil.

APPLICATION: For field application as an overall treatment, inject Metapicrin with a chisel type applicator having chisels spaced no more than 12 inches apart and injecting the fumigant 6-8 inches below the soil surface. To seal in fumigant after application, cover treated area with a plastic tarp. Alternato sealing methods include the use of a drag cultipacker, roller or float to firm the soil surface immediately behind chisels, or the application of water to wet the surface of soil 1 inch deep. For application as a row or bed treatment in the field Metapicrin should be applied using one chisel shank per row to inject fumigant 6-8 inches below the original

(A) Best results are obtained by covering beds with after treatment. A water seal maintained for 24 hou tarpaulin on potting soil and seed flats for 24 hou

*Suggested broadcast recommended rates for spi

Preplant Soil Rate

Strawberry cropland Tomatoes Onions Eggplants Cucumbers Melons Sweet Potatoes Yams Tobacco

Row or bed applications may be made at the broproportionately less per acre depending on the row or bed

SPACE AND VAULT FUMIGA

When using METAPICRIN as a space, greenhouse placard or post all entrances to the fumigated a previously listed under "Placarding of Fumigated

A. SPACE FUMIGATION (not containing raw agmites, cockroaches, silverfish and fungi, use 1 poincrease dosage 1½ to 1½ pounds per 1000 cubic filto not treat empty spaces where commodities v

APPLICATION INFORMATION: Prior to application should be sealed to make the building gas tight. The BOTE or higher Introduce METAPICRIN into a subscribent material located inside the structure METAPICRIN AND TO KEEP FUMIGANT IN CIRCLE 12 to 24 hours before resuming operations. Fancients

B. VAULT FUMICATION: For the control of fleas, in furniture and clothing, use 1 to 2 pounds of META dosage rates by an additional 1 pound per 10 commodities.

APPLICATION INFORMATION: Introduce the despan or onto burlap sacks or similar absorbent ma Use tans to hasten evaporation of METAPICHIN artime is 24 hours. Ventilate by opening doors and u

C. WARNING AGENT: METAPICRIN may be use with methyl bromide or sulfuryl fluoride. Prepar cept one entrance. When building is evacuated. Check seals for tightness. Five or ten minutes if flouride.

After fumigation, fumigated are concentration level of chloropicrin is Until the acceptable air concentration person to enter into the fumigated are specified personal protective equipmes specified in the Hazards to Humans s greenhouses, additional Worker Protective

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soil surface and sealed by listing a high, wide bed over the row or firming the bedded area with a bed-shaper. Fumigation of small areas or volumes of soil, potting mix or mushroom casing may be made by applying Metapicrin with a probe type point-injection device to a 6-8 inch depth in a grid pattern with injection points on a 12-inch spacing. For all applications involving the use of a plastic tarpaulin remove the tarp after 24-48 hours of exposure. Refer to Table for dosage rates for specific crops. Do not plant treated soil for 15 days.

WHEN TO PLANT: The soil should not be disturbed for 14 days following treatment. Do not plant seeds or transplants until the furnigant odor has left the soil. Cool or wet weather following treatment will retard diffusion of the furnigant, requiring a longer exposure and aeration period. Should these conditions occur, hasten aeration by working the bed to the depth of injection, taking care to avoid reinfestation of the furnigated zone with contaminated equipment and untreated soil.

Metapicrin Dosage Rates and Method of Application

Crop	Manner of Seating	Dosage	
All crops* (including greenhouse, nursery, and outside beds)	Cultipacking or water seal	485-1076 lbs /A	
	Plastic (A)	150 200 lbs /A	
Greenhouse heds	Plastic (A)	3-4 cc/sq_ft	
Mushroom casing soil	Water plus plastic or wet newspapers	5:10 cc/cu ft	
Potting soil	Water or plastic (A)	3-4 cc/sq. (t	
Saedbeds Celery (Florida)	Water or plastic (A)	1021 lbs /A or 6 cc/sq_ft	
Seedbeds (Other)	Water or plastic (A)	3.4 cc/sq. ft	
Seed flats	Plastic (A)	2.4 cc/sq. ft 10 cc/cu. ft	

(A) Best results are obtained by covering beds with a tarpaulin or plastic cover for 24 hours after treatment. A water seal maintained for 24 hours in top inch soil may also be used. Keep tarpaulin on potting soil and seed flats for 24 hours.

*Suggested broadcast recommended rates for specific crops.

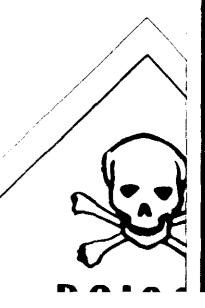
Preplant Soil Rate	Pounds/acre	
Strawberry cropland	320-500	
Tomatoes	300-500	
Onions	200-400	
Eggplants	300-500	
Cucumbers	300-500	
Melons	300-500	
Sweet Potatoes	150-400	
Yams	150-400	
Tobacco	150-500	

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

SPACE AND VAULT FUMIGATION DIRECTIONS

When using METAPICRIN as a space, greenhouse or vault fumigation, the applicator must placard or post all entrances to the fumigated area with signs bearing the information previously listed under "Placarding of Fumigated Areas"

A. SPACE FUMIGATION (not containing raw agricultural commodities): For control of mites, cockroaches, silverfish and fungi, use 1 pound of METAPICRIN per 1000 cubic feet Increase dosage 1¼ to 1½ pounds per 1000 cubic feet when absorbent materials are present Do not treat empty spaces where commodities will be stored.



2-4 cc/sq. ft. 10 cc/cu. ft.

12 9 14

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APPLICATION INFORMATION: Prior to application all windows, doors and other openings should be sealed to make the building gas tight. Temperature at time of application should be 80 ft. or higher. Introduce METAPICRIN into a shallow pan or onto burlap sacks or similar absorbent material located inside the structure. Use fans to hasten evaporation of METAPICRIN AND TO KEEP FUMIGANT IN CIRCULATION. Ventilate area thoroughly for 12 to 24 hours before resuming operations. Fans, dryness, and high temperature speed aeration.

B. VAULT FUMIGATION: For the control of fleas, mites, silverfish, cockroaches, and moths in furniture and clothing, use 1 to 2 pounds of METAPICRIN. In heavily loaded vaults, increase dosage rates by an additional 1 pound per 1000 cubic feet. Do not fumigate grain or commodities.

APPLICATION INFORMATION: Introduce the desired amount of METAPICRIN into a shallow pan or onto burlap sacks or similar absorbent material located inside the structure or vault. Use fans to hasten evaporation of METAPICRIN and to keep furnigant in circulation. Exposure time is 24 hours. Ventilate by opening doors and using fans for 12 to 24 hours prior to reentry

C. WARNING AGENT: METAPICRIN may be used for clearing structures prior to furnigating with methyl bromide or sulfuryl fluoride. Prepare structure for furnigation and seal all except one entrance. When building is evacuated, seal the last entrance and start the fans. Check seals for tightness. Five or ten minutes later, introduce methyl bromide or sulfuryl flouride.

After fumigation, fumigated areas must be aerated until the air concentration level of chloropicrin is measured to be less than 0.1 ppm. 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 specified personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this labeling. In greenhouses, additiona! Worker Protection Standard restrictions apply.



Seller warrants that the product conforms to its conforms of use, but neither this warranty nor conditions of use, but neither this warranty nor conforms of use. But neither this warranty nor conforms to label instructions or under a not reasonably forseeable to seller, and buyer a

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Pounds/acre

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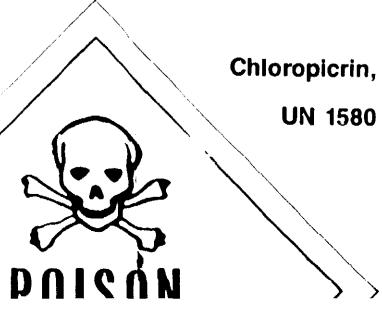
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Selfer warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product confrary to label instructions or under abnormal conditions, or under conditions not reasonably forseeable to seller, and buyer assumes the risk of any such use.

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