

8536-2

04/24/2008

Tacket 1/14



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mardel Rose Belotinsky
Regulatory Affairs Specialist
Cardinal Professional Products
P.O. Box 782
Hollister, CA 95024-0782

APR 24 2008

Subject: Chloropicrin 100 Fumigant
EPA Registration Number 8536-2
Your Amendment dated August 2, 2007 Adding directions for use for tree site
fumigation
PRIA Decision Number 382301

Dear Ms. Belotinsky:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following change is made:

1. In the "General Instructions" section for "Tree-site Soil Fumigation", revise the sentence to read, "Prior to application, till, auger or back-hoe the site to loosen the soil and to enhance fumigant penetration and aeration. Using a probe, inject 0.5 to 1.0 lb. of CHLOROPICRIN 100 to a depth of 16 to 24 inches into the center of the area to be treated. Tamp soil after injection. Avoid applying CHLOROPICRIN 100 when excessive soil moisture conditions exist. Aerate the soil before planting. Do not apply more than 1.15 lbs. active ingredient per 100 sq. ft."

One copy of the label stamped "Accepted with Comments" is enclosed for your records. Please submit one copy of the final printed label before the product is released for shipment.

If you have any questions, please contact Tamue L. Gibson by phone at (703) 305-9096 or via email at Gibson.tamue@epa.gov.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7505P)

Enclosure

Jacket 2/14

Specimen Label

**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.

Chloropicrin 100 Fumigant

ACTIVE INGREDIENT:
Chloropicrin99%
OTHER INGREDIENTS: 1%
TOTAL:100%

This product weighs 13.88 lbs./gal. @ 68 °C.

KEEP OUT OF REACH OF CHILDREN



DANGER PELIGRO

POISON [Note : « Poison » will be printed in red.]

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.)

**ACCEPTED
with COMMENTS
In EPA Letter Dated
APR 24 2008**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
8536-2

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

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. Keep warm. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
NOTE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Do not give anything by mouth to an unconscious person.	
NOTE TO PHYSICIAN	
Chloropicrin 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. Pulmonary edema may develop later. Treatment is symptomatic.	
EMERGENCY PHONE NUMBER: Infotrac, 1-800-535-5053	
<i>See side panels for additional precautionary statements.</i>	

3/14



Cardinal Professional Products

P. O. Box 782
Hollister, CA 95024-0782

EPA Reg. No. 8536-2

EPA Est. 11220-CA-4; 11220-CA-8

NET CONTENTS.....LBS.

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

THIS FUMIGANT IS A HIGHLY HAZARDOUS MATERIAL AND MUST BE HANDLED WITH CARE ONLY BY THOSE INDIVIDUALS EXPERIENCED WITH ITS PROPER USE. CONSULT YOUR DEALER REPRESENTATIVE OR THE DISTRIBUTOR FOR CORRECT PROCEDURE BEFORE USING. READ AND FOLLOW ALL LABEL DIRECTIONS AND PRODUCT LITERATURE SPECIFIC TO YOUR REQUIREMENTS. POISONOUS LIQUID AND VAPOR. INHALATION MAY BE FATAL. CHLOROPICRIN IS READILY IDENTIFIABLE BY SMELL. EXPOSURE TO VERY LOW CONCENTRATIONS OF VAPOR WILL CAUSE IRRITATION OF EYES, NOSE, AND THROAT. CONTINUED EXPOSURES AFTER IRRITATION IS EVIDENT, OR HIGHER CONCENTRATIONS, MAY CAUSE PAINFUL IRRITATION TO EYES OR TEMPORARY BLINDNESS. LIQUID WILL CAUSE CHEMICAL BURNS TO SKIN OR EYES. DO NOT GET ON SKIN, IN EYES, OR ON CLOTHING. HARMFUL OR FATAL IF SWALLOWED. CHLOROPICRIN FUMIGANT HAS THE CAPACITY TO CAUSE MARKED IRRITATION TO THE UPPER RESPIRATORY TRACT, AND IS A STRONG LACHRYMATOR (TEAR PRODUCING EYE IRRITANT). LOW CONCENTRATIONS, BELOW THOSE NECESSARY TO CAUSE SERIOUS SYSTEMIC INTOXICATION, ARE CAPABLE OF CAUSING SEVERELY PAINFUL EYE IRRITATION, HENCE WILL NOT 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.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/m³). 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, certified for chloropicrin use, such as a Matheson-Kitagawa or a Dräger tube/pump.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

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

- **Applicators and other handlers must wear:**
 - Loose-fitting or well ventilated long-sleeved shirt and long pants or equivalent, e.g., coveralls
 - Shoes and socks
 - When handling the product (e.g. mixer, loader), full-face shield or safety glasses with brow and temple shields (Do NOT wear goggles.)
 - When the air concentration level of chloropicrin is above 0.1 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 chloropicrin in the working area is measured to be 0.1 ppm or less.
- **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) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.
 - **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).

WORK SAFETY REQUIREMENTS

Do not wear jewelry, gloves, goggles, tight clothing, rubber protective clothing, or rubber boots when handling. Chloropicrin is heavier than air and can be trapped inside clothing and cause skin 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. 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 on clothing. 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.
- Supply your physician with information on Chloropicrin, which is available from your Dealer Representative or the Distributor.

5/14

ENVIRONMENTAL HAZARD

This fumigant is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local 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 the fumigant pressure system, as corrosion will result. Diesel oil is satisfactory for this purpose.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Do not apply this product in a 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.

6/14

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). *No instructions elsewhere on this labeling relieve users from complying with the requirements of the WPS.*

ENTRY RESTRICTIONS: Greenhouse Space Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person—other than a correctly trained and equipped handler who is performing a handling task permitted by the WPS—is PROHIBITED in the entire greenhouse (entire enclosed structure/building) from the start of application until aeration reduces the air concentration level of chloropicrin in the working area to 0.1 ppm or less.

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 application until 48 hours after application AND until the air concentration level of chloropicrin in the working area is measured to be 0.1 ppm or less. 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 0.1 ppm or less. If tarps are used for the application, non-handler entry is prohibited during tarp removal and until the air level is measured to be 0.1 ppm or less. **Outdoor Soil Fumigation:** Entry (including early entry that would otherwise be permitted under the WPS) by any person—other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling—is PROHIBITED from the start of application until 48 hours after application. In addition, if tarps are used for the application, non-handler entry is prohibited while tarps are being removed.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fumigant warning signs, as described in the "Placarding of Fumigated Areas" section of this labeling. Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal. **Greenhouses—Soil or Space Fumigation:** Post the fumigant warning signs outside all entrances to the entire greenhouse (entire enclosed building/structure). **Outdoor Soil Fumigation:** Post the fumigant warning signs at entrances to treated areas.

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

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/PELIGRO"
- "Area under fumigation, DO NOT ENTER/NO ENTRE"
- Chloropicrin Fumigant in use"
- the date and time of fumigation
- 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 0.1 ppm or less. 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. Warning signs are available from your dealer or distributor.

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. 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.

PRECAUTIONS TO FOLLOW

- Before using fumigant, read and follow all directions on the label and in the product literature.
- Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory agencies as required.
- It is advisable to supply your physician with information on chloropicrin, which is available from the company.
- 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.
- Never fumigate alone. It is imperative to always have an assistant and proper protection equipment, as listed in the Personal Protective Equipment section, to aid in case of accidents.
- 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 work with the tractor and driver while fumigating.
- Handle this fumigant in the open, when possible, with the operator "upwind" from the container, where there is good ventilation.
- Check the fumigant pressure system, when used, for leaks before beginning application.
- A gas mask must be carried in each service vehicle.
- Do not spill. If liquid fumigant splashes or spills on shoes or clothing, remove them at once, as fumes from the contaminated area will be an intolerable source of irritation. If the liquid contacts skin where rings or bandages are worn, remove them and wash the exposed skin with soap and water. Air expose shoes or clothing outside and do not wear until free of all traces of fumigant.
- Always have adequate clean water available to wash the skin.

- This fumigant must not be applied when there is an atmospheric inversion, since uncomfortable concentrations of chloropicrin may drift to nearby areas.
- Do not lift injection shanks to turn at the end of a pass until the fumigant has drained from the system following closure of the shutoff valve.
- Trash pulled by the shanks to the ends of the field when fumigating must be covered by lifting the shanks, then covering the trash with polyethylene film before making the turn for the next pass.
- In case of rupture of a hose or fitting while applying the fumigant, immediately stop the tractor and motor. Get off the tractor and get to a place where the problem can be observed without exposure to the fumes. Approach from upwind, with respiratory protection, if required, and make the necessary repairs.
- When changing the cylinders, be certain they are turned off, and the fumigant system is not under pressure.
- 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 the tarpaulin, if used.
- Two trained persons must be present during removal of the tarpaulin.

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 ammonia salts and use only fertilizers containing nitrates until after the crop is well established and the soil temperature is about 65 degrees F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

SOIL FUMIGATION

CHLOROPICRIN 100 is a preplant fumigant for the control of soil-borne pests such as wireworms and nematodes, and diseases caused by certain species of *Phythium*, *Phytophthora*, *Fusarium*, and *Verticillium*. It is to be used in soil to be planted to the crops listed below. Prior to application, the soil should be in condition for planting and with sufficient moisture to support seed germination.

BROADCAST APPLICATION

Apply CHLOROPICRIN 100 by means of chisels with injection points spaced no more than 12 inches apart and at a depth no less than 8 inches below soil surface. To seal in fumigant after application, drag or cultipack immediately behind chisels, or wet down treated area to a depth of 1 inch, or cover treated area with a plastic tarpaulin. If plastic tarpaulin is used, it should remain for a minimum of 48 hours. Do not apply to areas adjacent to fields where valuable crops are growing nor adjacent to buildings inhabited by humans or livestock. Fumigation of small volumes of soil or mushroom casing soil may be made by injecting chloropicrin 6 to 8 inches deep in a grid pattern not to exceed 12 inch spacing.

9/14

RECOMMENDED DOSAGES PREPLANT SOIL FUMIGATION¹	
LAND TO BE PLANTED TO	POUNDS PER ACRE⁴
Floral Crops, Nursery Crops	500
Plant and Seed Beds	300 – 500
Eggplant, Cucumbers, Melons, Tomatoes	300 – 500
Sweet Potatoes, Yams	150 – 400
Onions	200 – 400
Strawberries	150 – 500
All Other Crops ²	150 – 500
Mushrooms Casing Soil ³	5 – 10 cc/cu.ft.
Potting Soil	3 – 4 cc/sq.ft.
Seeds Beds	3 – 6 cc/sq.ft.

¹ If treated area is covered with a plastic tarpaulin immediately after application, dosage may be reduced by 33%.

² Not to be used with aquatic crops or for forestry uses.

³ In the case of Mushroom soil, seal with water plus plastic or wet newspapers.

⁴ To facilitate application of this product when applying in low dosages, dilution with the solvent Exxsol[®] D-80 is allowed. The maximum rate of Exxsol[®] D-80 shall not exceed 150 lbs./acre.

ROW, BED OR STRIP APPLICATIONS may be made at the broadcast rates but the amount used will be proportionately less per acre depending on the spacing and width of treatment in the row, bed or strip.

EXPOSURE AND AERATION: After application, leave the soil undisturbed for 10 to 14 days. Wet soil retards diffusion of the fumigant, thus requiring a longer exposure period. At the end of the exposure period, aerate the soil by plowing or deep cultivation. If heavy rains accompanied by low temperatures occur during the exposure period, working the soil several times is essential for thorough aeration. Aeration is usually complete when the odor of the fumigant is no longer evident.

TREE-SITE SOIL FUMIGATION

Prior to application, the site should be tilled, augered or back-hoed to loosen the soil, which will enhance fumigant penetration and aeration. Using a probe, inject 0.5 to 1.0 lb. of CHLOROPICRIN 100 to a depth of 16 to 24 inches into the center of the area to be treated. Tamp soil after injection. Avoid applying CHLOROPICRIN 100 when excessive soil moisture conditions exist, or aerate the soil, if necessary, before planting. Do not apply more than 1.15 lbs. active ingredient per 100 sq. ft.

APPLICATION OF CHLOROPICRIN 100 THROUGH DRIP LINE

DOSAGE: 100 to 300 pounds per acre. See crops listed in dosage table above.

DILUTION RATE: Pre-mix with TS Series surfactant prior to application through drip system at a ratio of 1:20 surfactant to CHLOROPICRIN 100. Contact your Cardinal Professional Products representative to obtain TS Series surfactants.

10/14

GENERAL PREPARATION AND INSTRUCTIONS:

1. Plan the application by calculating the amount of CHLOROPICRIN 100 required at the appropriate rate for the crop, acreage and target pest.
2. CHLOROPICRIN 100 must be applied through a drip irrigation system to wet the soil thoroughly in the area being treated. Drip emitters should be spaced 8-12" apart.
3. TS Series Surfactants may be metered into the supply line for CHLOROPICRIN 100 and then passed through a mixing device, such as a centrifugal pump or static mixer, to assure proper agitation. The mixture of CHLOROPICRIN 100 and TS Series surfactant must then be metered into the water supply and passed through a similar mixing device to assure proper agitation before it is distributed into the drip irrigation system.
4. Meter CHLOROPICRIN 100 into the drip system according to the dosage desired. An adequate concentration of active ingredient must be present in order to be effective. At no time should the concentration of active ingredient exceed 1,500 ppm in the drip line. For example, a 300 pounds per acre rate would require 24,000 gallons of water per acre for 1,500 ppm.
5. Soil conditions prior to application are as follows:
 - A. Ground should be in seedbed condition, no clods larger than 1/2" in diameter.
 - B. Beds should be listed, shaped and ready for planting.
 - C. Soil moisture should be at 50% of field capacity in the top 2-3" at time of CHLOROPICRIN 100 application.
6. After application of CHLOROPICRIN 100 you should continue to irrigate the area with untreated water to flush the irrigation system. Do not permit CHLOROPICRIN 100 to remain in the irrigation system after the application is complete. The total volume of water, including the amount used for flushing the irrigation system, should not exceed 1.5 acre-inches (40,000 gallons) of water per acre.

USE PRECAUTIONS:

1. Apply this product only through drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
6. The system must contain a functional check valve, vacuum-relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
7. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
8. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system

interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

9. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
10. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
11. Use a metering system, such as a positive displacement injection pump (e.g., diaphragm pump), a positive pressure system, or a Venturi system, effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
12. Posting of areas to be chemigated is required when: 1) any part of the treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public, such as golf courses or retail greenhouses. Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive areas. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period. All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the signs shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

AERATION: Do not disturb treated soil for at least 2 weeks. Wet soil retards diffusion of the fumigant thus requiring a longer aeration period. Aeration is usually complete when the odor of the fumigant is no longer evident.

**FUMIGATION OF ENCLOSED SPACES
(NOT FOR USE IN CALIFORNIA)**

When used for fumigation of enclosed spaces (houses and other structures, warehouses, vaults, chambers, greenhouses, trucks, vans, boxcars, ships, or 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 aeration periods. Do not fumigate sites which may be used for the storage or transport of raw agricultural commodities. After fumigation, fumigated areas must be aerated until the air concentration level of chloropicrin is measured to be 0.1 ppm or less. 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, additional Worker Protection Standard restrictions apply.

12/14

SPACE FUMIGATION: (Not containing raw agricultural commodities): For control of mites, cockroaches, silverfish, and fungi use 1 pound of CHLOROPICRIN 100 per 1000 cubic feet. Increase dosage 1-1/4 to 1-1/2 pounds per 1000 cubic feet when absorbent materials are present.

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 60 degrees F or higher. Introduce CHLOROPICRIN 100 into a shallow pan, or onto burlap sacks, or similar absorbent material located inside the structure. Use fans to hasten evaporation of CHLOROPICRIN 100 and to keep fumigant in circulation. Ventilate area thoroughly for 12 to 24 hours. Fans, dryness, and high temperatures speed aeration.

VAULT FUMIGATION: For the control of fleas, mites, silverfish, cockroaches, and moths in furniture and clothing use 1 to 2 pounds of CHLOROPICRIN 100. In heavily loaded vaults, increase dosage rates by an additional 1 pound/1000 cubic feet.

APPLICATION INFORMATION: Introduce the desired amount of CHLOROPICRIN 100 into a shallow pan or onto burlap sacks or similar absorbent material located inside the structure or vault. Use fans to hasten evaporation of chloropicrin and to keep fumigant in circulation. Exposure time is 24 hours. Ventilate by opening doors and using fans for 12 to 24 hours prior to re-entry.

TREATMENT OF WOOD, TIMBERS, POLES, PILES AND GLUE-LAMINATED BEAMS FOR CONTROL OF INTERNAL WOOD DECAY BY FUNGI AND INSECTS
(NOT FOR USE IN CALIFORNIA)

Carefully pour or inject CHLOROPICRIN 100 into drilled holes, then plug the holes with a 2-1/2 inch to 3 inch treated wood plug. When pouring or injecting fumigant and plugging holes, wear safety goggles to avoid splashing any liquid into the eyes. Holes in poles and piles should be positioned in a spiral pattern by drilling each hole 6 inches to 12 inches vertically from the preceding hole and rotating it by 90 degrees. Drill holes at a steep downward angle and avoid drilling through seasoning checks. If a treating hole intersects an internal rot pocket, plug that hole and drill new hole into solid wood above and, if possible, below the rot. For in-ground poles the first hole should be drilled at the ground level. Fill and plug the lowest hole before filling next higher hole. The suggested number of holes per treated structural timber and dosage are indicated in the following table:

<u>Pole Circumference</u>	<u>Hole Diameter</u>	<u>Length of Hole</u>	<u>Holes Per Pole</u>	<u>Pints of Fumigant/Pole</u>
Less than 32"	5/8"	15"	6	3/4
	5/8"	18"	5	3/4
	3/4"	15"	4	3/4
32"-45"	3/4"	15"	6	1
	3/4"	18"	5	1
	3/4"	21"	4	1
	3/4"	24"	3	1
	7/8"	21"	3	1
More than 45"	3/4"	24"	6	2
	7/8"	21"	5	2
	7/8"	24"	4	2

13/
14

For piles treated near the cutoff tops, cap the cutoff as recommended by the American Wood Preserver's Assn. Standard MA to contain the chemical and prevent reinfection. To treat glue-laminated beams, use at least 0.06 pints of chemical per cubic foot of wood to be treated. Drill treating holes into the top laminate through all glue lines when treatment is necessary. Stagger holes to minimize strength reductions of timbers. A vapor barrier wrap may be needed to confine chemical vapor. Do not treat inside an inhabited building. Have at least one gas mask with appropriate canisters available at the treating site. Wear protective gear and stand upwind when injecting the fumigant.

WARNING AGENT

CHLOROPICRIN 100 may be used for clearing structures prior to fumigation with odorless fumigants. Use 1 ounce per 10,000 to 15,000 cubic feet of space to be fumigated. Place a handful of cotton in a shallow container, or use a "Pic-Pan", and set it in the air stream of an electric fan. Five to ten minutes before introducing the odorless fumigant, pour CHLOROPICRIN 100 over the cotton in the shallow container or into the "Pic-Pan". CHLOROPICRIN 100 may be dispensed at one or more locations, so chosen as to ensure even distribution.

CHLOROPICRIN 100 is compatible when mixed with Chlorinated C₃ Hydrocarbons.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: Store in a cool, dry, well-ventilated area under lock and key. Post as a pesticide storage area. Persons moving, handling, or opening containers must wear the personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this labeling. Open container only in a well-ventilated area.

PESTICIDE HANDLING: The valve protection bonnet and safety cap should be removed only when fumigant is about to be removed from the cylinder. The safety cap and valve protection bonnet must be replaced when the cylinder is not in use. Cylinders should never be subjected to rough handling or to abnormal mechanical shock such as dropping, bumping, dragging, or sliding. Ropes, slings, hooks, tongs, and similar handling devices should not be used for unloading cylinders. A suitable hand truck, fork truck, or similar device to which the cylinders can be firmly secured should be used for transporting the heavier cylinders.

PESTICIDE 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 E.P.A. Regional Office for guidance.

CONTAINER DISPOSAL: Return cylinders to Cardinal Professional Products, 8770 Highway 25, Hollister, CA 95023, or to 1667 Purdy Avenue, Mojave, CA 93501. Cylinders are the property of Cardinal Professional Products and should be returned promptly by collect auto freight. When a cylinder is empty, the valve should be closed, the safety cap screwed onto the valve outlet, and the protection bonnet replaced prior to its return to the shipper. 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 the company for return instructions. Containers should never be refilled by the consumer or used for any other product or purpose.

SHIPPING: This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as Chloropicrin, 6.1, UN 1580, PG I, 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 (Inhalation Hazard). Do not ship with foods, feeds, or clothing.

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 0.1 ppm or less.

WARRANTY

Seller warrants that this product conforms to the chemical description on its label and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. 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 in a manner contrary to its label.

14/14