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EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Poisonous liquid and vapor. Inhalation of vapors may be fatal. Chloropicon is readily identifiable by smell. Exposure to very low concentrations of vapor will cause irritation of eyes, nose, and throat. Continued exposure after irritation, or higher concentrations may cause painful irritation to the eyes or temporary blindness. Liquid will cause chemical burns to skin or eyes. Do not gef on skin, in eyes, or on clothing. Harmful or fatal if swallowed.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is **8.1 ppm** (**0.7 mg/mt**). If the air concentration level exceeds **0.1 ppm**, an air punfying respirator must be worn. If the air concentration level exceeds **4 ppm**, an air-supplying respirator must be worn. The air concentration is measured by a direct reading detection device such as Matheson-Kirágawa.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Loose-fitting or well ventilated long-sleeved shirt and long pants Shoes and socks.

Full-face shield or safety glasses with brow and temple shields (Do NOT wear goggles).

When the acceptable air concentration level is above **8.1 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 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 prefitter approved for pesticides (MSHA/NOSH approval number prefit TC-23C). OR (b) a respirator with a canister approved for pesticides (MSHA/NOSH approval number prefix TC-14G) OR (c) a NOSH approved respirator with an organic vapor (OV) cartridge or canister with any R. P. or FE prefiter.

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

WORK SAFETY REQUIREMENTS

- Do not wear jeweiry, gloves, goggles, tight clothing, rubber protective clothing, or rubber boots when handling. Chloropicini is heavier than air and can be trapped inside choling and cause skin injury.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them.
- 3. Clean PPE after each day's use, immediately after contamination remove outer clothing, shoes, and socks and do not reuse until thoroughly aerailed or ventilated. Keep such clothing and shoes outdoors until thoroughly aerailed. 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, taceshields and respirators.

USE 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.

NOTE TO PHYSICIAN, Chloropicrin is a volatile liquid that is the active ingredient in tear gas. As a gas it is a powerful lachymator. Early symptoms of overexposure are lachymation, respiratory distress and vomiting. Pulmonary edema may develop later. Treatment is symptomatic.

This label must be accompanied by a poison inhalation hazard label.

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ENVIRONMENTAL HAZARDS

This product is toxic to tish and aquatic invertebraces. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and funoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not allow Chlor-O-Pic or its vapors to come into contact with any desirable living plants. Avoid spilling, dripping or otherwise contacting Chlor-O-Pic with crops in adjacent fields as plant injury may result. Do not apply Chlor-O-Pic when there is little on no air movement or during air inversion conditions.

PHYSICAL OR CHEMICAL HAZARDS

Chlor-O-Pic 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, aluminum, or alkali metals. Chlor-O-Pic is a northarmable liquid.

DIRECTIONS FOR USE

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

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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.

Chlor-O-Pic is a highly hazardous material and must be used only by persons trained in its proper use. Before using, read and follow all label precautions and directions.

All persons working with this furnigant must be trained in the hazards, use of required

respirator equipment and detector equipment, emergency procedures, and proper use of the fumigant.

When used for fumigation of empty potato storages or empty grain bins, two persons trained in the use of this product must be present at all times during introduction of the fumigant, testing and aeration periods.

STORAGE AND DISPOSAL

Storage and Handling. Store upright in a cool. dry, well-ventilated locked area. Post as a pesticide storage area. Do not contaminate water, food. or feed by storage or disposal. 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 wellventilated area.

Pesticide Disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or nnsate 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.

<u>Container Disposal (cylinders)</u>. Return empty cylinders freight collect to the Great Lakes Chemical Corporation location from which shipment was made Close cylinder valve by turning clockwise until hand tight. Disconnect lines Replace safety caps and bonnet. Return cartial cylinders only after consulting Great Lakes Chemical Corporation for proper shipping instructions.

<u>Container Disposal (plastic)</u>. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or purcture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

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 for Humans section of this labeling. Move leaking or damaged containers outdoors or to an isolated location. Observe stirct safety precausions. Work upwind, if possible. Allow spilled fumigant to evaporate or to absorb onto verniculite, dry sand, earth, or sim Bar 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 clearup. Do not permit entry into the spill or leak area by any otreperson until the concentration of chloropionn is measured to be less than 0.1 ppm.

RESTRICTED USE PESTICIDE DUE TO AC

For retail sale to and use only by Certified Applicators or persons unde and only for those uses covered by the Certified Applicator'.

CHLOR-O-F

ACTIVE INGREDIENTS:																	
Chloropicrin			-				-										
OTHER INGREDIENTS:	•	•	•	•	•	•	-	•	•	•	•	•	-	•	•	•	-

TOTAL

DANGER • PELIGRO • POISO

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle. (If you de to you in detail).

Statement of P	ractical Treatment. In all cases of overexposure, get medical attention immediately. Take
IF INHALED:	Get exposed person to fresh air. Keep warm. Make sure person can breathe freely. If b
	 preferably by mouth-to-mouth. Do not give anything by mouth to an unconscious pers

- IF ON SKIN: Immediately remove contaminated clothing, shoes, and other items covering skin. Wa water,
- IF IN EYES. Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minut SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STA



P.O. Box 2200, West Lafayette, Indiana

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 furnigation, and
- name, address, and telephone number of the applicator.

Do not allow entry by unprotected persons into the furnigated area until the signs are removed. Such signs must only be removed when the air concentration level of chicropicini 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 furnigated 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, nursenes, 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 Soil Furnigation: 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 48 hours after application AND until the air concentration level of chloropicrin in the working area is measured to be 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. on-handler entry is prohibited during tarp removal and until the air level is measured to be less than 0.1 ppm.

Dutdoor Soil Fumigation: Entry (including early entry that would otherwise be permitted under the WPS) by any person-other than a correctly traneed 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 taros are used for the application, non-handler entry is prohibited while taros are used for the NOTIFICATION: Notify workers of the application by warning mem orally.

and by posting turnigant varning signs, as described in the "Placarding of Furnigated Areas" section of this labeling. Post the furnigant warning sign instead of the WPS sign for this application. but follow all WPS requirements pertaining to location, legiblifty, size, and timing of posting and removal.

Greenhouses-Soil Furnigation: Post the furnigant warning signs outside all entrances to the entire greenhouse (entire enclosed structure building). Outdoor Soil Furnigation: Post the furnigant warning signs at entrances to treated areas.

PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD: PPE for entry that is permitted by this tabeling is listed in the "Hazards to

Humans and Domestic Animals" section of this labeling

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I. SPACE FUMIGATION DIRECTIONS

When using Chlor-O-Pic as a space fumigant, 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. <u>SPACE FUMIGATION</u>. For specific treatment sites, pests to be controlled, rates of application and exposure times, see Table I.

After furnigation, furnigated areas must be aerated until the air concentration level of chloropic/in 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 furnigated area unless he/she is wearing the specified personal protective equipment (including prescribed respirator) specified in the Hazards to Humans section of this tabeling

TABLE I CHLOR-O-PIC RECOMMENDED DOSAGES FOR SPACE FUNIGATION

Treatment Site	Pests	Rate	Exposure time (Hrs)
Empty Potato Cellars, Houses, Storages	fungi, insects, mites, rats and mice	0.35-0.7 bb. per 1000 cau. ft.	12-24
Empty grain bins (subfloor aeration	insects, mites, fungi, rats, and mice		
space)		2-4 lb. per 1000 sq. ft	12-24

<u>General Application Information</u>. Prior to application, all openings should be sealed to make the structure as gas tight as possible. For rat and mouse control in structures not tightly constructed seal any cracks or openings which might allow furmigant to escape or allow rodents to enter or leave the premises. Temperature at the time of application should be 60°F. or higher and wind should be relatively calm. For furnigation of pozto houses, the ar inside should be saturated with moisture at a temperature of at least 70°F. In all cases, extinguish fames and shut off heating elements prior to application. Introduce Chlor-O-Pic into a shaflow pan (except aluminum) or onto absorbent materia! such as burlap sacks located inside the structure. Arrange a fan to direct an ar stream over the pan or absorbent material to hasten evaporation

Additional tans should be used as necessary to keep the furnigant in circulation except for the furnigation of subfloor aeration spaces. At the end of the exposure period, ventilate the area by opening doors, windows and exhaust ports (if sc equipped) and continue to run fans for 12 to 24 hours. Observe all aeration entry, and placarding instructions listed earlier

B. <u>WARNING AGENT</u>, Chior-O-Pic may be used for cleaning structures prior to furnigating with methyl bromide or sulfuryl fluoride. Use 1 ounce per 10,000 cubic feet of space to be furnigated. Dispense Chior-O-Pic into a shallow pan made of plastic or metal (except aluminum) and arrange a fan to direct an ar stream across the pan to hasten evaporation. Use additional fans to distribute the warning agent throughout the structure. Insure the building is empty of personnel before sealing the last entrance. Five to ten minutes later, introduce the methyl bromide or sulfuryl fluoride structure; turnigant.

II. SOIL FUMIGATION

Chlor-O-Pic may be used as a preplant sc. 'umigant for control of man, economic solitome pests if present in soli at the of treatment. Soil fumigator with Chlor-O-Pic provides control or suppression of plant-parasitic disease causing organisms including nematodes, the cacterial pathogen <u>Pseudomonas</u> solanacearum, fungi in the genera <u>Cylindroccurum</u>. <u>Fusarium Phytophthora</u> <u>Pyrenochaeta</u> <u>Pythium</u>, <u>Rhizoctonia</u>. <u>Sclerotrum</u>, <u>Sclerotrum</u>, and <u>Verticollium</u> the clubroot organism <u>Plasmodiophora</u>, and the soil pox organism <u>Actinomyces</u> <u>ipomoea</u>. <u>Control of certain soil-infesting</u> insects such as cutworms, grubs and wireworms may also be obtained as well as suppression of weeds if used with a torgaulin.

Keep pets, levestock, 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 tanzaulin, if used.

<u>WHEN TO TREAT</u> Furnicate with Chlor-O-Pic at least 14 days prior to planting whenever solid conditions are suitable. For best results, soli should be tilled to a fine, loose condition with sol temperature at depth of application between 60°F and 85°F. Do not funciate when soil temperature is below 50°F. Soil should contain adequate moisture to support good seed germination. Fall treatment is suggested for fields that will be planted too early to allow for adequate soil temperatures.

<u>SOIL PREPARATION</u> For best turnigant penetration and soil sealing, plant remains should be worked into the soil long enough before treatment to allow for maximum decomposition. Deep bildinge (e.g. 12 to 18 inches) often improves results. Till the soil to a very fine condition, leaving a few clods as possible. Optimum seedbed mosture is an essential factor for effective furnigation. Do not furnigate dry soil

<u>Application</u>: For field accircation as an overall treatment, inject Chlor-O-Pic with a chisel type applicator "aving chisels spaced no more than 12 inches apart and injecting the furnigant 6-8 inches below the soil surface. To seal in furnigant after application, cover treated area with a plastic tarp. Alternate sealing methods include the use of a drag, cutipacker, roller or float to firm the soil surface immediately beind chisels, or the application of water to wet the surface soil 1 inch deep. For application as a row or bed treatment in the field, Chlor-O-Pic should be applied using one chisel shank per row to inject furnigant 6-8 inches below the original soil surface and sealed by listing a high, wide bed over the row or firming the bedded area with a bed-shaper. Furnigation of small areas or volumes of soil, potting mix or mushroom casing may be made by applying Chior-O-Pic with intection points on a 12-inch spacing. For all applications i involving the use of a clastic tarpaulin, remove the tarp after 24-48 hours of exposure. Refer to Tabe 11 or dosage rates for specific crops.

TABLE # Chlor-O-PIC SOIL FUMIGATION USES

Field soils to be planted to:	Lbs. per acre overall ^a non-tarp ^b	Special small areas or volumes of:	cc/cu.ft.or sq.fl.
Cucumbers. eggplant, meions	300-500	Mushroom casing	5-10/cu. ft.
Onions	200-400	Potting mix	3-4/sq. ft.
Sweet potatoes	150-400	Seed bed	3-6/sq. ft.
Tobacco	150-500		
All Other Crops	150-500		

^a Row or bed applications are made at the overall rate, but amount used is proportionately less per acre depending on the row spacing an width of treatment in the row or bed.

^b If treated area is covered with a plastic tarp immediately after application, reduce dosage by 33°;

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

III. DIRECTIONS FOR TREATMENT OF STANDING DOUGLAS FIR UTILITY POLES, LAND PILINGS, AND SIMILAR TIMBERS TO CONTROL INTERNAL DECAY.

Not For Use in The State of California

Drill a minimum of four treatment holes of 3/4" diameter spaced evenly around the wood pole. The holes should be approximately at a 45° downward angle and deep enough to reach the center of the pole. The first hole should be near the groundine and each succeeding hole drilled 6-12 inches higher. Distribute the total amount of furnigem equally among the holes. Refer to TABLE III for the appropriate amount of furnigem. Wear appropriate respiratory protection or use application equipment that will prevent worker exposure to furnigant liquid or vapor. Seal treatment holes by plugging with treated wood plugs.

TABLE III. CHLOR-O-PIC DOSAGE RATE TABLE FOR DOUGLAS FIR STUMPS.

UTILITY POLES, LAND PILINGS AND SMILLAR TIMBERS

Not For Use in The State of California

Diameter (Inches)	8	12	16	20	24	28	32	36	40
Fluid Ounces	3	7	12	19	30	43	59	78	102

Seler warrants that this product complies with The specifications expressed in this label, SELLER MAKES NO OTHER WARRANTIGE, AND DISCLAIMS ALL OTHER WARRANTIGE, EXPRESS OR IMPLIEL WOLDING BUT NOT LIMITED. TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR THE INTENDED PURPOSE Selers' liability for default, breach, c1 alltre, under this label shall be limited to the amount of the purchase price. Sel ef shall have no liability for consequential carrages.

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