UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

26 MAY 1974

bote 128

Soil Chemicals Corporation P.O. Box 782 Hollister, CA 95024

Attn: Tom Duafala, Ph.D.

Subject: Chloropicrin 100

EPA Registration No. 8536-2

Your Submission of November 30, 1993

The submission noted above, a revised product label entailing changes to the application instructions involving the use of tarpaulins has been reviewed. Please note the following.

- 1. The new instructions "If plastic tarpaulin is used, it should remain for a minimum of 48 hours" and the movement of the tarpaulin from the Precautionary Statement section to the Application Statement section is acceptable.
- 2. The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. A stamped copy is enclosed for your records. Five copies of the finished printed labeling, including these comments must be submitted before releasing the product for shipment bearing the new labels.
- a. Revise the Environmental Hazards statement to read as per PR Notice 93-16 (published July 29, 1993): "This product 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 in to 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.".
- b. Please note that continued acceptance of wood or timber preservative uses is dependent on this use pattern being supported in the reregistration of this active ingredient.

CONCURRENCES								
S'MBOL)				NEOT. A	AAU.A	ECAL	No.	
SURNAME) (HOSTAGE				BEDT A	FAILAN	LE COF		
DATE TO ANY	334							

If you should have any questions concerning this letter, you may call Robert Travaglini on (703) 305-6909.

Sincerely,

Ruth G. Douglas Product Manager (32) Antimicrobial Program Branch Registration Division (7505C)

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS.

AND DOMESTIC ANIMALS:

ANGER

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 SOIL CHEMICALS CORPORATION FOR CORRECT PROCEDURE BEFORE USING. READ AND FOLLOW ALL LABEL DIR-ECTIONS AND THE PRODUCT LITERATURE SPECIFIC TO YOUR PARTICULAR REQUIREMENTS.

POISONOUS LIQUID AND VAPOR. INHALATION MAY BE FATAL. CHLOROPICAL: IS READILY IDENTIFIABLE BY SMELL. EXPOSURE TO VERY LOW CONCENT ATTIONS OF VAPOR WILL CAUSE INSTITUTION OF EYES, MOSE, AND THROAT. CONTINUED EXPOSURES AFTER INKITATION IS EVIDENT OR HIGHER CONCEN-TRATIONS, MAY CAUSE PAINFUL LIBRITATION TO EYES OR TEMPORARY BILIND-NESS. 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 LACHYMATOR (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 POMERFUL THAT A PERSON MAY BECOME TEMPORARILY MILINDED AND PANIC-STRICKEN AND THAT IN TURN NAY LEAD TO ACCIDENTS.

PRECAUTIONS TO FOLLOW PRIOR TO FUMIGATION

- Before using funigent, reed 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.

- application permit from Agricultural Regulatory Agencies as required.

 3. It is advisable to supply your physician with information on Chloropicrin, which is swallable from Soil Chemicals Corp.

 4. 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.

 5. Never funigate alone. It is imperative to always have an assistant and proper protection equipment, as listed below, to aid in case of accidents.

 6. Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to work with the tractor and driver while funigating.

 7. Handle this funigant in the open, when possible, with the operation.
- tian.
- Check the funigent pressure system, when used, for leaks before beginning application.

RESPIRATORY EXPOSURE:

RESPIRATORY FROTECTION: DO NOT BREATHE FURES. A GAS MASK MUST BE
CARRIED IN EACH SERVICE VERICLE.

9. If the concentration of chloropicrin in the working area, as
measured by direct reading devices (such as a Matheson-Kitagswa
gas detector tube), does not exceed 0.1 ppm (0.67 mg/cu.m) no
respiratory protection is required. If this concentration is
exceeded at any time, all persons in the fumigation areas must
wear a RIOSEN/MSBA approved air purifying respirator approved
for organic vapors, self-contained breating apparatus(SCBA), or
a combination air supplied/SCBA respirator.

EYE EXPOSURE:

į

- Wear safety glasses when working with this fumigent. Exposure
 of eyes to splashing liquid fumigent any render an individual
 helpless.
- 11. In case of eye exposure, flush eyes with clean water.

SKIN EXPOSURE:

SKIN EXPOSURE:

MEAR FRIL-BODY CLOTHING TWAT IS CLEANED AFTER EACH MEARING OR DISPOSABLE PROTECTIVE CLOTHING. MEEN NAMBLING LIQUID. USE GLOVES AND
AN APRON THAT ARE RESISTANT TO CHLOROPICHIN. IF FULL-FACED RESPIRATORY PROTECTION IS NOT REQUIRED. WEAR GOGGLES OR FULL-FACE SHIELD
FOR EYE PROTECTION MEEN HANDLING THE LIQUID.

12. Do not spiil. If liquid fumigant spiashes 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.

SERVICE ON SOLICE

13. Always have adequate clean water available to wash the skin

RESTRICTED USE PE

For retail sale to and use only t Applicators, or persons under th supervision, and only for those t by the Certified Applicator's cer

CHLOROPICRII FUMIGAN

ACTIVE INGREDIENTS: CHLOROPICRIN INERT INGREDIENTS: TOTAL

KEEP OUT OF REACH OF CH

DANGER



PI

IN ALL CASES OF OVEREXPOSURE, CF. ATTENTION IMMEDIATELY. TAKE PE DOCTOR OR AN EMERGENCY TREATMENT

STATEMENT OF PRACTICAL TE

IF INTALED: Get exposed person to in warm. Make sure person can breatt breathing has stopped, give artii tion, preferably mouth-to-mouth. Do thing by mouth to any unconscious pe

IF ON SKIN: Immediately remove conta ing, shoes and other items covering contaminated skin area thoroughly . water.

IF IN EYES: Hold eyelids open and steady, gentle stream of water for minutes.

PRECAUCION AL USARIO: Si usted no 1 use esta producto haste que la el sido explicada ampliamente.

NOTE TO PHYSICIAN: Chloropicrin is a wid that is the active ingredient is a gas it is a powerful lachrymator. of overexposure are lachrymation, re tress, and vomiting. Pulmonary eder later. Treatment is symptomatic.

BEST AVAILABLE COP

CHEMICALS CORPORATION FOR CORRECT PROCEDURE BEFORE USING. READ AND FOLLOW ALL LABEL DIR-ECTIONS AND THE PRODUCT LITERATURE SPECIFIC TO YOUR PARTICULAR REQUIREMENTS.

POISONOUS LIQUID AND VAPOR. IMMALATION MAY BE FATAL. CILOROPICAIN IS READILY IDENTIFIABLE BY SMELL. EXPOSURE TO VERY LOW CONCENTRA-TIONS OF VAPOR WILL CAUSE IDRITATION OF EYES, MISE, AND THROAT.
CONTINUED EXPOSURES AFTER IRRITATION IS EVIDENT OR HIGHER CONCEN-TRATIONS, MAY CAUSE PAIDIFUL LIBRITATION TO EYES OR TEMPORARY BLIND-NESS. LIQUID WILL CAUSE CHEMICAL BURNS TO SKIN OR EYES. DO NOT GET ON SKIN. IN EYES, OR ON CLOTHING, HARMFUL OR FATAL IF SHALLOHED.

CHLOROPICALIN FUNIGANT HAS THE CAPACITY TO CAUSE MANIGED IRRITATION TO THE UPPER RESPIRATORY TRACT, AND IS A STRONG LACHYMATOR (TEAR PRODUCING EYE INITIANT). LOW CONCENTRATIONS, BELOW THOSE NECESSARY TO CAUSE SERIOUS SYSTEMIC INTOXICATION, ARE CAPABLE OF CAUSING SEVERELY PAINFUL EYE IMPLIFACION. HENCE WILL HOT BE VOLUNTARILY TOLERATED. HOWEVER, THE EFFECT MAY BE SO POWERFUR THAT A PERSON MAY BECOME TEMPORARILY MILINDED AND PANIC-STRICKEN AND THAT IN TURN MAY LEAD TO ACCIDENTS.

PRECAUTIONS TO FOLLOW PRIOR TO FUMIGATION

Before using funigent, 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 remained.

application permit from Agricultural Regulatory Agencies as required.

3. It is advisable to supply your physician with information on Chloropicris, which is assistance at once in case of illness after exposure, and do not allow conditions which could accidentally cause further exposure until recovery is complete.

5. Never funigate alone. It is imperative to always have an assistant and proper protection equipment, as listed below, to aid in case of accidents.

6. Drivers of application equipment must advise other workers of all precautions and protedures. In addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to work with the tractor and driver while funigating.

7. Handle this funigant in the open, when possible, with the operation.

Check the funigant pressure system, when used, for leaks before beginning application.

RESPIRATORY EXPOSURE:
RESPIRATORY MOTECTION: DO NOT INVESTIGE FLIPES. A GAS HASK HUST BE CAPRIED IN EACH SERVICE VEHICLE.

JOULED IN EXCH SERVICE VEHICLE.

9. If the concentration of chloropicrin in the working area, as measured by direct reading devices (such as a Matheson-Kitagawa gas detector tube), does not exceed 0.1 ppm (0.67 mg/cu.m) no respiratory protection is required. If this concentration is exceeded at any time, all persons in the funigation area must wear a MICSH/MSNA approved air purifying respirator approved for organic vapors, self-contained breating apparatus(SCBA), or a combination air supplied/SCBA respirator.

EYE EXPOSURE:

- Wear safety glasses when working with this fungant. Exposure
 of eyes to splashing liquid funigant may render an individual
 helpless.
- 11. In case of eye exposure, flush eyes with clean water.

SKIN EXPOSURE:

WEAR FULL-BODY CLOTHING THAT IS CLEANED AFTER EACH WEARING OR DISPOSABLE PHOTECTIVE CLOTHING. WHEN HANDLING LIQUID. USE GLOVES AND
AN AFFON THAT ARE RESISTANT TO CHOROPICRUM. IF FULL-FACED RESPIRATORY PROTECTION IS NOT REDUIRED. WEAR COCCLES OR FULL-FACE SHIELD
FOR EYE PROTECTION WHEN WANDLING THE LIQUID.

12. Do not spill. If liquid funiquant splashes or spills on shoes
or clothing, remove them at once as funes 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
weak the exposed skin with mosp and water. Air expose shoes or
clothing outside and do not wear until free of all traces of
funigant.

13. Always have adequate clean water svallable to wash the skin.

PRECAUTIONS TO FOLLOW DURING FIELD FUMIGATION

- 14. This funigent should not be applied when there is an atmospheric inversion, since unconfortable concentrations of Chloropicrim may drift to nearby areas.
- 15. Do not lift injection smarks to turn at end of a pass until the fundgent has drained from the system following closure of the shutoff valve.
 16. Trash pulled by the shanks to the ends of the field when fundgeting must be covered by lifting the shanks, then covering the trash with polyethylese film before making the turn for the next pass.

SEE MANDLING PRECAUTIONS CONTINUED IN THIRD COLUMN

ACTIVE INGREDIENTS:

CHLOROPICRIN INERT INGREDIENTS:

TOTAL

14 100%

992

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

P ON

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

STATEMENT OF PRACTICAL TREATMENT

IF INMALED: Get exposed person to fresh air. K warm. Make sure person can breathe freely. breathing has stopped, give artificial respition, preferably mouth-to-mouth. Do not give a thing by mouth to any unconscious person.

IF ON SKIN: Immediately remove contaminated clo ing, shoes and other items covering the skin. W contaminated skin area thoroughly with scap water.

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

PRECAUCION AL USARIO: Si usted no lee ingles, use este producto haste que la etiqueta le h sido explicada ampliamente.

NOTE TO PHYSICIAN: Chloropicrin is a volatile 1 uid that is the active ingredient in tear gas. a gas it is a powerful lachrymator. Early sympt of overexposure are lachrymation, respiratory d tress, and vomiting. Pulmonary edema may deve later. Treatment is symptomatic.



Soil Chemicals Corporation **PRODUCTS** . For Pesi Management PO Sox 782 Hollister, CA 95024

E.P.A. EST. 8536-CA-1, 2, 3, 4; FL-1 **LP.A RIG NO. 8536-2**

NET CONTENTS......LB:

SEST AVAILABLE COPY

PESTICIDE

only by Certified der their direct those uses covered r's certification.

CRIN 100 ANT

99% 14 100%

OF CHILDREN

PELIGRO

ON

SURE, GET MEDICAL TAKE PERSON TO A REATMENT FACILITY

CAL TREATMENT

on to fresh air. Keep breathe freely. If re artificial respirabuth. Do not give anycious person.

bve contaminated clothpowering the skin. Wash bughly with scap and

ppen and flush with a ter for at least 15

sted no lee ingles, no que la etiqueta le haya

crin is a volatile liq-edient in tear gas. As rymator. Early symptoms ation, respiratory dismary edema may develop hatic.

> Soil **Chemicals** <u>Corporation</u>

DIRECTIONS CONTINUED:

17. In case of the rupture of a hase or fitting while applying the funigant, immediately step the tractor and motor. Get off the tractor and get to a place where the problem can be observed without exposure to the funes. Approach from upwind, with respiratory protection if required and make necessary repairs 18. When changing the cylinders, be certain they are turned off and the funigant system is not under prepair.

PRECAUTIONS (CO FULLOW ... AFTER FIELD FUNIGATION

Post all treated areas with warning signs. The signs are available from Soil Chemicals Corporation.
 Reep all animals, children, and unauthorized people every from area under funigation during 48 hour exposure period and durnemoval of tarpaulin.
 Do not feed domestic animals on crop residues unless an E.P.A. tolerance exists for such use. Examples are, but not limited to, sended or volunteer cover crops growing on soil which has been funigated as a preplant treatment for a registered cropuse.

NOTE CAREFULLY:

NOTE CAREFULLY:
Punigation say temporarily raise the level of ammonia nitrogen and soluble solts in the soil. This is most likely to occur when heavy rates of fertiliter and funigant are applied to soils that are either cold, wet, soid, or high in organic matter. To swold injury to plant motes, fertilize as indicated by soil tests made after funigation. To swold ammonia injury and/or nitrate starvation to crope, evold using fertilizers containing ammonis salts and use only fertilizers containing nitrates until after the crop is well established and the soil temperature is about 5:7. Liming highly soid soils before funigation stimulates nitrification and reduces the possibility of ammonia toxicity.

EMULT DANNETHMENTET. HERMON

ENVIRONMENTAL HAZARD

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

CHEMICAL HAZARD

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

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

STORAGE AND DISPOSAL

Storming a cool, dry, well-wentilated area under lock and key. Post as a penticide storage area. Do not contaminate water. food, or feed by storage or disposal. Persons moving or handling containers should wear protective clothing. Open container only in a well-wentilated area wearing protective clothing, and respiratory protection if necessary.

RETURN OF CYLINDERS
Cylinders are the property of:
Soil Chemicals Corp.
2060 East 220th St. 8770 Highway 25
Long Beach, CA 90810 Hollister. CA 95023
BE Soil Chemicals Corp.
7610 Hwy. 41 North
Palmetto. FL 33561

then a cylinder in empty, the valve should be closed the safety cap screwed onto the valve outlet, and the bonnet replaced prior to its return to the shipper.
 Do not ship cylinders without safety caps or valve protection bronnets.

bonnets.

bonnets.
When a cylinder is partially full and there is no further requirement for the product, contact Soil Chemicals Corp. for return instructions.
Containers should never be refilled by the consumer or used for any other product or purpose.

SHIPPING

DRIFFING
This fumigant is classified in the U.S. Department of Transportation Rezerdous Materials Regulations as Chloropicrin, 6.1, yel
1580, PG I, Poison-Inhelation Hezerd, Rezerd Zone B and no exceptions from specifications, packaging, marking and labeling are
allowed. Describe ampty cylinders as having lest contained
Chloropicrin (Inhelation Materd). Do not ship with food, feade,
and allowed.

HANDLING

1. The value protection bonnet and safety cap should be removed only when funigant is about to be removed from the cylinder. The safety cap and value protection bonnet must be replaced when the cylinder is not in use.

2. Cylinders should never be subjected to rough handling or to abnormal mechanical shock such as dropping, bumping, dragging, and lighter.

annormal mechanical snock such as dropping, bumping, dragging, or sliding.

3. Ropes, slings, hooks, tongs, and similar handling devices should not be used for unloading cylinders.

4. 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.

SPILL OR LEAK PROCEDURE

SFIDE of an account of a prill or leak. Use SCBA combination to the scale of a prill or leak. Use SCBA combination are supplied SCBA respirator, or approved cannister respirator for all supplied SCBA respirator, or approved cannister respirator for all supplies and a scale of contract problem. Howe leaking of

GENERAL INSTRUC

THIS PURICANT IS A HIGHLY MAZARDOUS MATERIAL A ONLY BY PERSONS TRAINED IN ITS PROPER USE. BEFORE FOLLOW ALL LABEL PRECAUTIONS AND DIRECTIONS. ALL MITH THIS PURICANT SHOULD BE TRAINED IN THE MAZ REQUIRED RESPIRATOR EQUIPMENT, DETECTOR DEVICES. DURES. AND THE PROPER USE OF THE PURICANT.

SOIL FUMIGATION

Chloropicrim is a preplent funigment for the contr pests as listed; such as, wiresorms and numotodus caused by certain species of Phythius. Phytopht and Verticillium. It is to be used in soil to be crops listed below. Prior to application, the ac condition for planting and with sufficient soist seed germination.

APPLICATION

Apply this funigant by means of chisele speced apert and at a depth of 8° below soil surfer funigant after application, drag or outlipeck is chisele, or set down treated area to a depth treated area with a pleatic terpeulin. If pleated, it should remain for a minisum of 48 hour to areas adjacent to fields where valueble crops adjacent to buildings inhabited by humans or live

Pumigution of small volumes of soil or sushroom cande by injecting chloropicrim 6 - 8 inches deep not to exceed 12 inch specing.

RECOMMENDED DOSAGES*

PREFERENCE SULL FURTICATION.	
LAND TO BE PLANTED TO:	POLNOS PER
Strauberries	150-SC
Tomatoes	300-SC
Floral Crops	500
Mursery Crops	500
Onzons	200-40
Plant & Seed Beds	300-50
Eggplant	300-50
Cucumbers	300-5C
Melons	300-50
Sueet Potatoes	150-40
Yaras	150-40
All Other Crops	150-4
Mushroom Casing Soil**	5-10 cc/c
Potting Soil	3-4 0€/#
Seed Back	3-6 cc/s

If treated area is covered with a plantic tary after explication, dosage may be reduced by 330
 In the case of Mushroom soil, seal with water wet messpapers.

Now or bed applications may be made at the broads amount used will be proportionately less par acre row specing end width of treatment in the row or

EXPOSURE AND AERATION

EAPOSURE AND AERATION
After application, leave the soil undisturbed I
Wet soil retards diffusion of the funigent. I
longer exposure period. At the end of the exposur
the soil by plowing or deep cultivation. If her
nied by low temperatures occur during the exposur
the soil several times is exsential for thorough
tion is usually complete when the odor of the
longer evident.

BEST AVAILABLE COPY

FUMIGATION OF ENCLOSED SI

When used for funigation of enclosed spaces structures, warehouses, waults, cheahers, gre vans, boxcars, ships, or other transport vehi trained in the use of this product sust be pre-during introduction of the funigant, testing, and Do not funigate sites which may be used fo transport of raw agricultural cosmodities.

SEE RESPIRATORY PROTECTION STATURENT

SPACE FUNICATION (Not containing row agricultural control of mites, cockroaches, milverfish, and fi Chloropicrin per 1000 cupic feet. Increase dosept per 1000 cubic feet when absorbent materialm are

APPLICATION INFORMATION: Prior to application, a and other openings should be sealed to make the ? Temperature at time of application about the higher. Introduce Chloropicrin into a shallow p secks, or similar absorbent meterial located into Use fans to heaten avaporation of Chloropicrin Win circulation. Ventilate area thoroughly for 12 resuming operations. Fans, dryness, and high seration. eeration. SEE AERATION STATEMENT.

VAULT FUMICATION: For the control of fless, crekrosches, and noths in furniture and clothing of Chloropicrin. In heavily loaded weeks, increan additional 1 pound per 1000 cwait feet.

APPLICATION INFORMATION: Introduce the d Chloropicrin into a shallow pan or ents burls absorbent meterial located inside the etructure to heaten eveporation of Chloropicrin and to Circulation. Exposure time is 24 hours. Ventile and using fans for 12 to 24 hours prior to re-def SEE AFRATION STATEMENT.

99% 14 100%

HILDREN

ELIGRO

N

ET MEDICAL TERSON TO A T FACILITY

REATMENT

wesh air. Keep he freely. If ficial respirao not give any-

aminated cloththe skin. Wash with soap and

d flush with a at least 15

lee ingles, no tiqueta le haya

a volatile liqn tear gas. As Early symptoms espiratory disma may develop

Soil hemicals rporation DUCTS Pest ement 82

FL-1

A 95024

.....las.

NOTE CAREFULLY:

NUTE CAREFULLY:
Punigation may temperarily raise the level of ammonis nitrogen and soluble ealts in the soil. This is most likely to occur when heavy rates of fartilizer and funigant are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to plent roots, fertilize as indicated by soil tests made after funigation. To avoid ammonis injury and/ar nitrate starvation to crope, avoid using fertilizers containing ameonie selts and use only fertilizers containing nitrates until efter the crop is well setablished and the soil temperature is about 65°F. Liming highly acid soils before funigation stisulates nitrification and reduces the possibility of ammonis toxicity. monia toxicity.

ENVIRONMENTAL HAZARD

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

CHEMICAL HAZARD

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

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

STORAGE AND DISPOSAL

STORAGE

Store in a cool, dry, well-wentilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food, or feed by storage or disposal. Persons moving or handling con-tainers should wear protective clothing. Open container only in a well-wentilated area wearing protective clothing, and respiratory protection if necessary.

RETURN OF CYLINDERS

Cylinders are the property of:
Soil Chemicals Corp. Soil Chemicals Corp.
2060 East 220th St. 8770 Highway 25 7610 Hwy. 41 North
Long Beach, CA 90810 Hollister, CA 95023 Palmetto, FL 33561

- 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 Soil Chemicals Corp. for return instructions.
- Containers should never be refilled by the consumer or used for any other product or purpose.

SHIPPING

This funigant is classified in the U.S. Department of Transporta-tion Hazardova Materials Regulations as Chloropicrin, 6.1, UM 1580, PG J. Poison-Inhelation Hazard, Hazard Zone B and no exemp-tions from specifications, packaging, marking and labeling are allowed. Describe empty cylinders as having lest contained Chloropicrin (Inhalation Hazard). Do not ship with food, feeds, or clothing. HANDLING

- 1. The valve protection bonnet and safety cap should be removed only when fumigant is about to be removed from the cylinder. The safety cap and valve protection bonnet must be replaced when the cylinder is not in use.

 2. Cylinders should never be subjected to rough handling or to abnormal mechanical shock such as dropping, bumping, dragging, or sliding.

- abnormal mechanical shock such as dropping, bumping, dragging, or sliding.

 3. Ropes, slings, hooks, tongs, and similar handling devices should not be used for unloading cylinders.

 4. A suitable hand track, fork truck, or similar device to which the cylinders can be firmly secured should be used for transporting the heavier cylinders.

SPILL OR LEAK PROCEDURE

Evacuate invediate area of spill or leak. Use SCBA combination
air-supplied SCBA respirator, or approved cannister respirator for
entry into affected area to correct problem. Howe leaking or
damaged containers outdoors or to an isolated location
atrict safety precautions. Work upwind if possible. Allow spilled
material to evaporate, or to absorb onto waniculite, dry sand,
earth, or similar absorbent material which may be disposed of on
site, or at an approved disposal facility. Do not permit entry
into spill area or cleanup by unprotected persons until concentration of chloropicrin is determined to be less then 0.1 pps.

DISPOSAL

DISPOSAL
Do not contaminate water, food, or feed by storage or disposal.
Pesticide wastes are toxic. Improper disposal of success 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 Hazerdone Meste representative at the meanest E.F.A. Regional Office for guidance.

funipent after application, dreg or cultipack immediately chimels, or wet down treated area to a depth of 1". a treated area with a plantic terpaulin. If plantic terpauled, it should remain for a minimum of 48 hours. Do me to areas adjacent to fields where valuable crops are gree adjacent to buildings inhabited by humans or livestoom. Pumigation of small volumes of soil or suchious chime and made by injecting chloropicrin 6 - 8 inches deep in a grid not to exceed 12 inch spacing.

RECOMMENDED DOSAGES*

LAND TO BE PLANTED TO:	POUNDS PER ACRE		
Strawberries	150-500		
Tometoes	300-500		
Floral Crops			
	500		
Mursery Crops	500		
Onions	200-400		
Plant & Seed Beds	300-500		
Eggplant	300-500		
Cucumbers			
	300-500		
Melons	300-500		
Sweet Potatoes	150-400		
Yates	150-400		
All Other Crops			
Art orner Crobs	150-500		
Mushrooms Casing Soil**	5-10 cc/cu ft.		
Potting Soil	3-4 cc/sq. ft.		
Seed Bade	3-6 cc/ag. ft.		
	J-V CC/80. It.		

* If treated area is covered with a plastic tarpeulin immater application, dosage may be reduced by 33%.
**In the case of Mushroom soil, seal with water plus played newspapers.

Now or had applications may be made at the broadcast rates assumt used will be proportionately less per acre depending you specing and width of treatment in the you or had.

EXPOSURE AND AERATION
After application, leave the soil undisturbed for 10 to 3
Not soil retards diffusion of the funigest, thus requi
longer exposure period. At the end of the exposure period,
the soil by plosting or deep cultivation. If heavy rains,
sied by low temperatures occur during the exposure period,
the soil several times is essential for thorough seration
tion is usually complete when the odor of the funigent
longer evident.

FUMIGATION OF ENCLOSED SPACES

When used for fumigation of enclosed spaces (houses a structures, variances, vaults, chambers, greenhouses, vans, boxcars, ships, or other transport vehicles) two trained in the use of this product must be present at a during introduction of the fumigant, testing, and serstion be not fumigate sites which may be used for the stotransport of raw agricultural commodities.

SEE RESPIRATORY PROTECTION STATEMENT

SPACE FUNIGATION (Not containing raw agricultural commoditic control of mites, cockrosches, milverfish, and fungi use 1 Chloropicrin per 1000 cubic feet. Increase domage 1 % to 1 per 1000 cubic feet when absorbent materials are present.

APPLICATION INFURMATION: Prior to application, all windows and other openings should be sealed to make the building gatemperature at time of application should be 60 degrahigher. Introduce Chloropicrin into a shallow pen, or onto higher. Introduce Chloropicrin into a shallow pen, or onto heache, or similar absorbent material located inside the structure of the SEE AERATION STATEMENT.

VAULT FUMICATION: For the control of fless, mitee, mit-cockreaches, and moths in furniture and clothing use 1 to of Chloropicrin. In heavily loaded weults, increase domage : an additional 1 pound per 1000 cubic feet.

APPLICATION INFORMATION: Introduce the desired as-Chlorepicrin into a smallow pan or onto burlay secks ar absorbent material located inside the structure or vault. to hasten evaporation of Chlorepicrin and to keep fun-circulation. Exposure time is 26 hours. Ventilate by openi and using fame for 12 to 24 hours prior to re-entry. SEE AERATION STATEMENT.

ACCEPTED with COLOMBITE in EPA Letter Detch

28 MAY 996

Under the rederal Insection Fungicula, and Rodestielde Act et amended, for the pessedde registered under EPA Bog. Fig.

3536 W

BEST AVAILABLE COPY

ì

UCTIONS ENIAL AND SHOULD BE USED BEFORE USING, READ AND 48. ALL PERSONS HOWLING INC. HAZARDS. THE USE OF VICES, EMERGENCY PROCE-

DN

he control of soil-borne emotodes, and discover Phytophthore, Punaraus, I to be pishted to the the smal should be in a soisture to support

apaced no more than 12"
1 surface. To seel in
Lipsch immediately behind
a depth of 1", or cover
If plastic tarpealin is
48 hours. Do not apply
ble except are growing nor
a or livestock.

mbrous casing soil may be has deep in a grid patters

AGES*

CUMOS PER ACRE 300-500 500 500 300-400 300-500 300-500 300-500 300-500 150-400 150-400 5-10 ec/cu ft 3-4 ec/sq. ft 3-6 ec/sq ft.

matic terpoulin serediately cod by 33%; th water plus plastic or

the broadcast rates but the a per acre depending on the ne you or bed

Listambed for 10 to 14 days. Lundgamt, this tequiring a the exposure period, serute in. If heavy rains accompa-the exposure period, wo.ming or thorough seration. Jeru-tor of the funiquet is no

OSED SPACES

d spaces (bounes and other store, greenhouses, trucks, apart vehicles) two persons unt be present at all times sating, and meration periods, a used for the storage or

gricultural commodities): For ish, and fungi use 1 yound of ease Gooses 1 t to 1 t prunds orisis are present.

lication, all windows, Goore, make the building gas tight, should be 60 degrees F or imballow pan, or onto burjag lecated inside the etructure, presicris sed to heep funionity for 12 to 24 hours before and high temperatures speed

of floor, mitor, milverfish, and clothing use 1 to 2 pounds wite, increase dosego rates by feet.

wee the desired event of embe buriep seems or singler or structure or voilt. Use fine trie and to keep finigent in its. Ventilate by opening Smars let to re-entry.

TREATMENT OF WOOD, TIMBERS, POLE), PILES AND GLUE-LAMINATED BEAMS FOR CONTROL, OF INTERNAL WOOD DECAY BY FUNGI AND INSECTS PILES

Carefully pour or inject Chloropicrin into drilled holes, there plug the holes with a 2 1/2" - 3" treated wood plug. When pouring or injecting fumigent and plugging holes, wear safety goggles to evoid splashing any liquid into the eyes. Holes in poles and piles should be positioned in a spiral pattern by drilling each hole 6 - 12" vertically from the preceding hole and rotating it by 90 degrees. Drill holes at a steep domment angle and avoid drilling chrough measoning checks. If a treating hole intersects an internal rot pocket, plug that hole and crill new hole into solid wood shove 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 ment higher hole. The suggested number of holes per treated structural timber and domage are indicated in the following table:

POLE CLICUMFERENCE	HOLE DIAMETER	LENGTH OF HOLE	NOLES FOR POLE	PERTS OF PURICINIT/POLI
LESS THAN 32"	5/8*	15"	•	3/4
	5/8*	18*	5	3/4
	3/4"	15"	Ĭ.	3/4
32" - 45"	3/4-	īš-	Ž	í
	3/4"	18"	Š	5
	3/4"	21-	Ž.	î
	3/4"	24.	i	î
	7/8-			ï
More than 45°	3/4"	21. 21.	ž	5
	7/8"	21.	š	5
	7/8*	24-	ă	ž

For piles treated near the cutoff tops, cap the cutoff as recommended by the American Wood Preserver's Amen. Standard MA to cottain the chemical and prevent reinfection.

To treat glue-laminated beers, 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 headed to exfine chemical vapor. Do not treat inside an inhabited building

Have at least one gas mask with appropriate canisters swallable at the treating site. Wear protective gear and stand upwind when injecting the funigant

PLACARDING OF AREAS FUMIGATED

The applicator past risemed or post all entrances to the function with right bearing in English and Spanish.

1. The signal word "DACCET/PELICRO and the shull and cross symbol."

2. The statement." Area under funigation. DO NOT ENTER/NO E.

3. The date of funigation.

4. Name of funigation.

5. Name, address, and talephone number of applicator.

Chiy & certified emplicator may remove placards, and only a concentration of echloropicris is below 0.1 ppm (0.7 mg/cu.s

AERATION AND REENTRY

After funication, trustment areas must be served until the of chloropicrin is below 0.1 ppm. Do not allow entry into area by any person before this time unless provided with a story protection device (SCBA, a combination air-supplied/approved canister respirator).

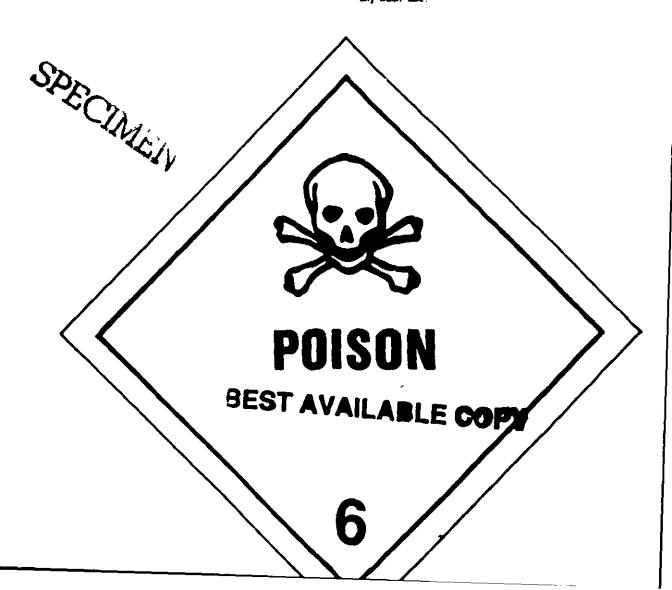
WARNING AGENT

Chloropicrin may be used for clearing structures prior to ing with methyl broads or sulturyl fluorise. Prepare a for funigation, and seal all except one entrance. Use 1 or 10,000 - 15,000 cubic feet of space to be fungated. When is evacuated, seal the entrance and start the fans. Check a tightness. Pive to ten minutes later, introduce methyl broadfuryl fluoride.

CHLCHOPICKIN 100 is compatible when mixed with Chlorinated C ₃ Hydrocarbons

WARRANTY

NOTICE: Seller warrants that the product conforms to its description and is reasonably fit for the purposes stated label when used in accordance with directive under nor ditions of use, but neither this warranty nor may other of MERCHANTABILITY or FITNESS FOR A PARTICULAR FURNOSE, a implied, extends to the use of this product contrary to structions, or under abnormal conditions, or under condit reasonably forwaseable to seller, and buyer assumes the any such use.



not apply buing man

dl may be

More than 45'

For piles treated mear 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 boles 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 fungent. Chloropicrin may be used for clearing structures priör to fundigating with methyl brunids or sulfuryl fluorids. Prepare structure for funigation, and seal all except one entrance. Use 1 ounce per 10,000 - 15,000 cubic feet of space to be funigated. When building is evacuated, seal the entrance and start the feas. Check seals for tightness. Five to ten minutes later, introduce methyl brunids or sulfuryl fluorids.

CHECKEPICKEN 100 is compatible when mixed with Chlorinated C 3 Mydrocarbons

WARRANTY

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or PIDESS FOR A PARTICILAR MEMOSE, express or implied, extends to the use of this product contrary to label instructions, or under exported conditions not reasonably foreseasable to seller, and buyer semimes the risk of any such use.

mediately

dastic or

s but the ag on the

.14 days. miring & i. serate accompai. working m. Aerat is no

and other, trucks, o persons all times a pariods. torage or

tice): Por 1 pound of 1 h pounds

re, doors, pas tight. reem F or ito burlsp structure. p funished urs before ures speed

ilverfish, e 2 pounds e rates by

securit of er similar . Wes fema migent in sing dence SPECIMEN POISON

CHLOROPICRIN UN 1580 INHALATION HAZARD

MP-21129 CA October, 1992

BEST AVAILABLE COPY