

PM21

8536-8

Pg. 1 of 9

197616 655
2 ABG

SEP 14 1987

Tom Duafala, Ph.D.
Soil Chemical Corporation
P.O. Box 782
Hollister, CA 95024-0782

Dear Dr. Duafala:

Subject: PIC-CLOR 60
EPA Registration No. 8536-8
Your Submission Dated April 30, 1987

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted.

1. The ingredient statement for your end-use product must list the active ingredient Chlorinated C₃ Hydrocarbons as follows:

1,3-Dichloropropene

2. Please refer to page 26 of the 1,3-Dichloropropene Registration Standard for current label requirements.

Sincerely yours,

Lois A. Rossi
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

88344-I: Toma: R-1: KENCO: 9/9/87: 9/17/87: LF: VO: dg: lf

CONCURRENCES

SYMBOL	TS-767C							
SURNAME	Toma							
DATE	9/10/87							

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

PIC-CLOR 60

PREPLANT SOIL FUMIGANT

ACTIVE INGREDIENTS

*CHLORINATED C₃ HYDROCARBONS 40%

CHLOROPICRIN 60%

TOTAL ACTIVE INGREDIENTS 100%

(*Includes 1,3-Dichloropropene and Related C₃ Hydrocarbons)

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

P O I S O N

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

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Get exposed person to fresh air. Keep warm. Make sure person can breathe freely. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. Do not give anything by mouth to any unconscious person.

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

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

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

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.



Soil
Chemicals
Corporation
PRODUCTS
For Pest
Management

P.O. Box 782
Hollister, CA 95024

E.P.A. EST. 8536-CA-1, 2, 3, 4-FL-1
E.P.A. REG. NO. 08536-8 -AA

NET CONTENTS..... LBS..

WORKING

COPY

ACCEPTED
with COMMENTS
in EPA Letter Dated:

SEP 14 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under FIFRA Reg. No.
8536-8

PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS

Red → **D A N G E R** ← Red

THIS FUMIGANT IS A HIGHLY HAZARDOUS MATERIAL AND MUST BE HANDLED WITH CARE ONLY BY THOSE INDIVIDUALS EXPERIENCED WITH ITS PROPER USE. CONSULT YOUR REPRESENTATIVE OR TRICAL FOR CORRECT PROCEDURE BEFORE USING. READ AND FOLLOW ALL LABEL DIRECTIONS AND PRODUCT LITERATURE SPECIFIC TO YOUR REQUIREMENTS.

POISONOUS LIQUID AND VAPOR. MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED. THE CHLOROPICRIN PORTION OF THIS FUMIGANT 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.

THIS 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.

PRECAUTIONS TO FOLLOW
PRIOR TO FUMIGATION

1. Before using fumigant, read and follow all directions on the label and in the product literature.
2. Comply with all local regulations and ordinances. Obtain an application permit from Agricultural Regulatory Agencies if required.
3. It is advisable to supply your physician with information on this fumigant.
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 fumigate 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.
7. Handle this fumigant in the open, when possible, with the operator "upwind" from the container where there is good ventilation.
8. Check the fumigant pressure system, when used, for leaks before beginning application.

RESPIRATORY EXPOSURE:

9. **RESPIRATORY PROTECTION: DO NOT BREATHE FUMES.**
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 fumigation area must wear a NIOSH/MSHA approved air purifying respirator approved for organic vapors, self-contained breathing apparatus (SCBA), or a combination air supplied/SCBA respirator.

EYE EXPOSURE:

10. If full-faced respiratory protection is not required, wear safety glasses, goggles, or full-face shield for eye protection when handling the liquid. Exposure of eyes to splashing liquid fumigant 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 PROTECTIVE CLOTHING. WHEN HANDLING LIQUID, USE GLOVE AND AN APRON THAT ARE RESISTANT TO CHLOROPICRIN AND TELONE II.
12. 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.
13. Always have adequate clean water available to wash the skin. Wash thoroughly with soap and water after handling and before eating and smoking.

**PRECAUTIONS TO FOLLOW
DURING FIELD FUMIGATION**

14. This fumigant should not be applied when there is an atmospheric inversion, since uncomfortable concentrations of Chloropicrin may drift to nearby areas.
15. Do not lift injection shanks to turn at end of a pass until the fumigant has drained from the system following closure of the shutoff valve.

SEE HANDLING PRECAUTIONS CONTINUED IN THIRD COLUMN

DIRECTIONS CONTINUED:

16. In case of the 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 up wind, with respiratory protection if required and make necessary repairs.
17. When changing cylinders, be certain they are turned off and the fumigant system is not under pressure.

PRECAUTIONS TO FOLLOW AFTER FIELD FUMIGATION

18. If required, post all treated areas with warning signs. The signs are available from your Dealer.
19. Keep all animals, children, and unauthorized people away from area under fumigation during 48 hour exposure period and during removal of tarpaulin.

NOTE CAREFULLY:

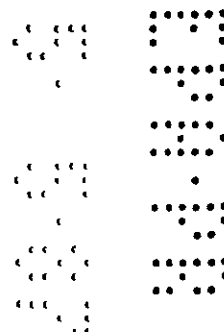
Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to plant roots, fertilize as indicated by soil tests made following fumigation. To avoid ammonia injury and/or nitrate starvation to crops, avoid using fertilizers containing nitrates until after the crop is well established and the soil temperature is about 65° F. Liming highly acid soils before fumigation stimulates nitrification and reduces the possibility of ammonia toxicity.

ENVIRONMENTAL HAZARD

This fumigant is toxic to fish and wildlife. It should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment or disposal of wastes. In case of spills, properly dispose of contaminated materials.

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 a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

STORAGE

Store in a cool, dry, well-ventilated 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 containers should wear protective clothing. Open container only in a well-ventilated 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
Long Beach, CA 90810 Hollister, CA 95023

1. 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.
2. Do not ship cylinders without safety caps or valve protection bonnets.
3. When a cylinder is partially full and there is no further requirement for the product, contact Soil Chemicals Corp. for return instructions.
4. 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 mixture, class "B" poison and no exemptions from specifications, packaging, marking, and labeling are allowed. Describe empty cylinders as having last contained Chloropicrin mixture. 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.
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

Evacuate immediate area of spill or leak. Use SCBA combination air-supplied SCBA respirator, or approved canister respirator for entry into affected area to correct problem. Move leaking or damaged containers outdoors or to an isolated location, observing strict safety precautions. Work upwind if possible. Allow spilled material to evaporate, or to absorb onto vermiculite, 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 than 0.1 ppm.

DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest E.P.A. Regional Office for guidance.

GENERAL INSTRUCTIONS

THIS FUMIGANT IS A HIGHLY HAZARDOUS MATERIAL AND SHOULD 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 FUMIGANT SHOULD BE TRAINED IN THE HAZARDS, THE USE OF REQUIRED RESPIRATOR EQUIPMENT, DETECTOR DEVICES, EMERGENCY PROCEDURES, AND THE PROPER USE OF THE FUMIGANT.

Note to Users: Cancer Hazard Warning Statement "The use of this product may be hazardous to your health. This product contains 1,3-dichloropropene which has been determined to cause tumors in laboratory animals. Risks can be reduced by closely following the use directions and precaution, and by wearing protective clothing specified elsewhere on this label."

Note to users: Required clothing and equipment during the handling and application of 1,3-dichloropropene:

One-piece coveralls which have long sleeves and long pants constructed of laminated fabric as specified in the USDA/FDA Guide for Commercial Applicators.

Liquid-proof hat such as a plastic hard hat with a plastic sweat band.

Heavy-duty liquid proof (neoprene/synthetic) work gloves and boots.

Note to users: Any article worn while handling 1,3-dichloropropene must be washed before reusing. Immediately remove all clothing which has been drenched or has otherwise absorbed 1,3-dichloropropene from any spill. Dispose of contaminated clothing in a sanitary landfill by incineration, or if allowed by state and local authorities by burning. If burned, stay out of smoke.

PIC-CLOR 60 is a preplant soil fumigant for control of soil-borne pests such as wireworms and nematodes, and diseases caused by certain species of Rhizoctonia, Pythium, Fusarium, Phytophthora and Verticillium. PIC-CLOR 60 is to be used in soil to be planted to crops listed below. Prior to application the soil should be in condition for planting and with sufficient moisture to support seed germination.

APPLICATION

Apply PIC-CLOR 60 by means of chisels spaced no more than 12" apart and at a depth of 8" below the soil surface. To seal in fumigant after application drag or cultipack immediately behind chisels or wet down treated area to a depth of 1" or cover area with a plastic tarpaulin. If a plastic tarpaulin is used it may be removed after 24 hours. Do not apply PIC-CLOR 60 to areas adjacent to fields where valuable crops are growing or near buildings inhabited by humans or livestock.

RECOMMENDED DOSAGES

Land To Be Planted To:	Lbs. Per Acre
Strawberries	500-650*
Tomatoes	500-650*
Floral Crops	500-650*
Nursery Crops	500-650*
Onions	500-550
Radishes	500-550
Plant & Seed Beds	500-550
Eggplant	500-650*
Cucumbers	500-550
Melons	500-650*
Sweet Potatoes	275-375

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

Field Reentry:

✓ "Workers entering the treated area 72 hours after application of 1,3-dichloropropene must wear protective clothing."

EXPOSURE AND AERATION

After application leave the soil undisturbed for 14 to 21 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 temperature occur during the exposure period, working soil several times is essential for thorough aeration. Aeration is usually complete when the odor of the fumigant is no longer evident.

WARRANTY

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



Last page