

8536-42

11-30-2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

8536-42

Date of Issuance:

NOV 30 2007

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Pic-Clor 40 EC

Name and Address of Registrant (include ZIP Code):

Soil Chemicals Corporation dba Cardinal Professional Products
P.O. Box 782
Hollister, California 95024-0782

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA Sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA Sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Submit the following studies within 18 months of the date of this product registration:
 - a. Storage stability – OPPTS 830.6317
 - b. Corrosion characteristics – OPPTS 830.6320
3. Make the following changes to the label:
 - a. Change the product registration number to “EPA Reg. No. 8536-42”.

Signature of Approving Official:

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

Date:

11/30/2007

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b. Revise the name on the product label to read "Soil Chemicals Corporation dba Cardinal Professional Products."

4. Submit one copy of the final printed label before the product is released for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely,



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

Enclosure: Label stamped "Accepted with Comments"
Product Chemistry Review dated 10/17/07
Acute Toxicity Selective Method Action dated 10/1/07

NOV 30 2007
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

8536-42

Draft Specimen Labeling

RESTRICTED USE PESTICIDE
DUE TO HIGH ACUTE INHALATION TOXICITY AND CARCINOGENICITY
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 40 EC

A multi-purpose liquid fumigant to be used in drip irrigation systems only for pre-plant treatment of soil to control nematodes, symphlyans, wireworms and certain soil-borne diseases in cropland.

ACTIVE INGREDIENTS:

1,3-Dichloropropene55.6%
Chloropicrin37.8%

OTHER INGREDIENTS:..... 6.6%

TOTAL:100.0%

One gallon of Pic-Clor 40 EC weighs about 11.14 lbs./gal. at 20° C.
Contains 6.35 pounds of 1,3-Dichloropropene and 4.23 pounds of Chloropicrin per gallon.

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.)

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

FIRST AID

If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • 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 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.
<ul style="list-style-type: none"> • For additional information in case of an emergency, call toll free (1-800-424-9300.) 	

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- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN

Because rapid absorption may occur through lungs if product is aspirated and cause systemic effects, the decision to induce vomiting or not should be made by a physician. Probable mucosal damage may contraindicate the use of gastric lavage. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

SEE SIDE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.



Cardinal Professional Products

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

(831) 637-1992

EPA File No. 8536-UE

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

NET CONTENTS.....LBS.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

HAZARDOUS LIQUID AND VAPOR

•CORROSIVE TO EYES AND SKIN •CAUSES IRREVERSIBLE EYE DAMAGE •CAUSES SKIN BURNS •FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH THE SKIN •PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS. •PROLONGED CONTACT MAY CAUSE LUNG, LIVER, AND KIDNEY DAMAGE AND RESPIRATORY SYSTEM IRRITATION.

•DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. •DO NOT TAKE INTERNALLY. •DO NOT BREATHE VAPOR.

•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 EXACTLY FOLLOWING DIRECTIONS FOR USE, PRECAUTIONARY STATEMENTS, AND BY WEARING THE PERSONAL PROTECTIVE EQUIPMENT SPECIFIED IN THIS LABELING.

•THIS PRODUCT ALSO CONTAINS CHLOROPICRIN, A STRONG LACHRYMATOR (TEAR-PRODUCING EYE IRRITANT), WHICH HAS THE CAPACITY TO CAUSE MARKED IRRITATION TO THE UPPER RESPIRATORY TRACT. LOW CONCENTRATIONS ARE CAPABLE OF CAUSING PAINFUL EYE IRRITATION. THE EFFECT MAY BE SO POWERFUL THAT A PERSON MAY BECOME TEMPORARILY BLINDED AND PANIC-STRICKEN. THAT, IN TURN, MAY LEAD TO ACCIDENTS.

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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-supplied respirator must be worn. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa, Dräger, or Sensidyne.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Chemical-Resistant Materials: 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. PPE constructed of Saranex, neoprene, and chlorinated polyethylene provide short-term contact or splash protection against liquid in this product. Longer-term protection is provided by PPE constructed of Viton, Teflon, and EVAL barrier laminates (for example, Responder suits manufactured by Lifeguard or Silvershield gloves manufactured by North). Where chemical-resistant materials are required, leather, canvas, or cotton materials offer no protection from this product and must not be worn when contact with this product is possible. Coveralls must be loose-fitting and constructed of woven fabrics (e.g. tight knit cotton or cotton/polyester), non-woven fabrics (e.g. Tyvek or Sontara), or fabrics containing microporous Teflon.

1) Handlers performing mechanical transfer of product (closed delivery systems)

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear and socks
- Face-sealing goggles
- In addition, the following PPE must be immediately available to the handler in case of emergency:
 - Coveralls
 - Full-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or 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.

(2) Handlers performing tasks with liquid contact potential

Tasks with liquid contact potential are tasks performed outdoors. They include:

- Equipment calibration or adjustment
- Equipment clean-up and repair
- Product sampling
- Rinsate disposal
- Fumigant transfer (open delivery systems)
- Clean-up of small spills
- Preparing containers for aeration
- Any activity less than 6 feet from an unshielded pressurized hose containing this product

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Handlers performing tasks with liquid contact potential must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or 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.

3) Handlers in the treated area within 5 days after application

Only the following handler tasks may be performed in the treated area within 5 days after the application is complete:

- Assessing pest control, application technique, or application efficacy
- Sampling air or soil for this product
- Assessing/adjusting the soil seal, including plastic or tarp

All other tasks are prohibited until the 5-day period has expired.

Handlers performing the above tasks in the treated area within 5 days after application must wear:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear and socks
- Full-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or 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.

(4) Handlers exposed to high concentrations

Handlers exposed to high airborne concentrations of this product, such as cleanup following large spills and exposure to this product in poorly ventilated areas, must wear:

- Chemical-resistant suit
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear

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- Supplied-air respirator with MSHA/NIOSH approval number prefix TC-19C or self-contained breathing apparatus (SCBA) with MSHA/NIOSH approval number prefix TC-13F. See further respirator requirements in the "User Safety Requirements" section of this label.

Note: In-tank cleaning of bulk tanks must be performed only by persons who have been specifically trained for this activity according to OSHA guidelines as described in OSHA 29 CFR Part 1910.146.

USER SAFETY REQUIREMENTS

1. Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met: (a) Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner; (b) Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (c) Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (d) Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
2. Never Fumigate Alone: It is imperative to always have an assistant and proper protective equipment in case of accidents.
3. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
4. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each day's use.
5. Contact With Mouth: Never siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
6. Heat Illness Avoidance: Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, fans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment wash waters. See "Storage and Disposal" section. In case of spills, properly dispose of contaminated materials.

Groundwater Advisory: 1,3-dichloropropene is known to move through soil and under certain conditions has the potential to reach groundwater as a result of agricultural use. Application in areas where soils are permeable and groundwater is near the surface could result in groundwater contamination.

PHYSICAL OR CHEMICAL HAZARDS

- Combustible. Do not use or store near heat or open flame.
- Do not mix or allow coming in contact with oxidizing agent. A chemical reaction hazard may occur.
- Handle carefully! Do not drop or let container be impacted by heavy objects. An explosion hazard may occur.

ENGINEERING CONTROLS REQUIREMENTS

WITH ALL BULK AND MINI-BULK CONTAINERS: This product must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with the liquid product.

1. All hoses, piping, and tanks used in connection with this product shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.
2. External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
3. The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.
4. Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of this product when the transfer is stopped and hose is removed or disconnected. A dry coupler that will minimize pesticide leakage must be installed at the disconnect point.
5. The pressure in hoses used to move this product beyond a pump must not exceed the manufacturer's maximum pressure specification.

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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.

NOTICE: READ THE ENTIRE LABEL AND LABEL BOOKLET BEFORE USING THIS PRODUCT. USE ONLY ACCORDING TO LABEL AND LABEL BOOKLET DIRECTIONS. BEFORE BUYING OR USING THIS PRODUCT, READ "WARRANTY DISCLAIMER" AND LIMITATION OF REMEDIES."

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 on this label about personal protective equipment (PPE), 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).

ENTRY RESTRICTION: 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 5 days 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 at entrances to treated areas. The sign must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO" (2) "Areas under fumigation", "DO NOT ENTER/NO ENTRE" (3) the date and time of fumigation, (4) "1,3-Dichloropropene and Chloropicrin fumigants in use," and (5) name, address, and telephone number of the applicator. 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.

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

POSTING REQUIREMENTS

Posting of areas to be chemigated is required when 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.

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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 for 14 days. 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.

GENERAL INFORMATION

This product is a multi-purpose liquid fumigant for preplant treatment of soil to control nematodes, symphylans, wireworms and certain soil borne diseases in cropland. This product, a soil fungicide and nematicide, may be applied as a preplant soil treatment to control or to aid in reducing the damaging effects of certain soil borne diseases [soil rot (soil pox) of sweet potatoes; *Streptomyces scabies* (potato scab or common scab of potatoes); Granville (bacterial) wilt, black root rot, black shank diseases of tobacco; *Verticillium* wilt of mint, pink root of onions, pod rot of peanuts]; plant parasitic nematodes [root-knot, root lesion, citrus, cyst formers (golden, sugar beet, soybean), burrowing, lance, reniform, ring, spiral, sting, pin, stubby root, stylet, dagger and certain others]; symphylans (garden centipedes) and wireworms. Before fumigation, soil sampling for the type and number of pests present is recommended. In fields where pre-treatment soil samples indicate the presence of high population levels of nematodes, a successful fumigation cannot be expected to eradicate entire populations. Therefore, post-treatment sampling is recommended to determine the need for additional pest management practices. Consult State Agricultural Experiment Station or Extension Service specialists for information on other practices such as post-harvest destruction of crop residues, weed control or other cultural practices, and use of nematode resistant crop varieties that may aid in reducing crop losses from soil borne pests.

GENERAL USE PRECAUTIONS

Soil fumigation using this product must be conducted only according to directions and conditions of use described in this labeling. DO NOT FORMULATE THIS PRODUCT INTO OTHER END-USE PRODUCTS. DO NOT USE CONTAINERS, PUMPS OR OTHER TRANSFER EQUIPMENT MADE OF ALUMINUM, MAGNESIUM OR THEIR ALLOYS, AS UNDER CERTAIN CONDITIONS 1,3-DICHLOROPROPENE MAY BE SEVERELY CORROSIVE TO SUCH METALS.

Because 1,3-dichloropropene is corrosive under certain conditions, flush all application equipment with fuel oil, kerosene or a similar type of petroleum solvent immediately after use. Fill pumps and meters with new motor oil or a 50% motor oil/fuel oil mixture before storing. DO NOT USE WATER.

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DO NOT APPLY WITHIN 100 FEET OF ANY WELL USED FOR POTABLE WATER. DO NOT APPLY THIS PRODUCT WITHIN 100 FEET FROM THE EDGE OF KARST TOPOGRAPHICAL FEATURES. Karst topography is identified from landscape features that result from the dissolving activity of water in carbonate rock formations (limestone, dolomite, and marble). Surface features that are associated with karst topography include sinkholes, caverns, springs, and sinking or disappearing streams. In North Dakota, South Dakota, Wisconsin, Minnesota, New York, Maine, New Hampshire, Vermont, Massachusetts, Utah, and Montana: Where groundwater aquifers exist at a depth of 50 feet or less from the surface, do not apply this product where soils are Hydrologic Group A.

USE RESTRICTIONS FOR PIC-CLOR 40 EC IN CERTAIN FLORIDA COUNTIES

For the following Florida counties: Brevard, Broward, Charlotte, Citrus, Collier, Dade, DeSoto, Glades, Hardee, Hendry, Hernando, Highlands, Hillsborough, Indian River, Lake Lee, Manatee, Martin, Monroe, Okeechobee, Orange, Osceola, Palm Beach, Pasco, Pinellas, Polk, Sarasota, Seminole, St. Lucie, Sumter, and Volusia, use PIC-CLOR 40 EC only on soils that have a relatively shallow hard pan or soil layer restrictive to downward water movement (such as spodic horizon) within six feet of the ground surface and are capable of supporting seepage irrigation regardless of irrigation method employed. DO NOT APPLY WHERE SUBSURFACE DRIP IRRIGATION EQUIPMENT MIGHT RELEASE THE FUMIGANT DIRECTLY INTO SHALLOW SUBSURFACE IRRIGATION WATER. For all other Florida counties, follow the label affixed to the product container for PIC-CLOR 40 EC.

RECONTAMINATION PREVENTION

This product will control pests that are present in the soil treatment zone at time of fumigation. It will not control pests that are introduced into soil after fumigation. To avoid reinfestation of treated soil do not use irrigation water, transplants, seed pieces, or equipment that could carry soil borne pests from infested land. Avoid contamination from moving infested soil onto treated beds through cultivation, movement of soil from below the treated zone, dumping contaminated tare soil in treated fields and soil contamination from equipment or crop remains. Clean equipment carefully before entering treated fields.

FERTILITY INTERACTIONS

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 certain crops including red beets, carrots, corn, radishes, cole crops, legumes (beans), lettuce, onions, and sugar beets, fertilize as indicated by soil tests made after fumigation. To avoid ammonia injury or nitrate starvation (or both) to crops grown on high organic soils, do not use fertilizers containing ammonium salts. Use only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 65 degrees F. In mineral soils, do not apply more than 2/3 of the nitrogen requirements from fertilizers containing ammonium salts until the crop is well established and the soil temperature is above 65 degrees F.

When using high rates of this product as required by certain state nursery regulations, liming of highly acid soils before fumigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as citrus seedlings, *Cornus* sp., *Crataegus* sp.,

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spruce, and vegetable crops such as cauliflower have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect, additional phosphate fertilizer (foliar applied) is recommended where experience indicates a deficiency may occur.

TABLE 1 PIC-CLOR 40 EC APPLICATION RATES			
Broadcast Equivalent Rates and Use Information for Control of Nematodes, Symphylans ^a , Wireworms ^a and Certain Soil-Borne Diseases in Soils to be Planted to Crops Listed			
Crop	Soil Type	Gallons/Acre ¹	Lbs./Acre
Field Crops, Vegetable Crops	Mineral	13 to 20.5 ²	144.8 to 228.4
Strawberries	Mineral	29 to 38.4	323 to 427.9
Fruit and Nut Crops	Mineral	39.5 to 51.5	440 to 573.7
Nursery Crops	Mineral	39.5 to 56	440 to 623.8

^aNote: To control symphylans (garden centipedes) apply at 15.5 or more gallons per acre (172.7 lbs./acre), and apply during late summer or early fall when the soil is warm. To suppress wireworms, use dosages recommended for nematodes.

¹Rates given are broadcast equivalent. Based on the width of the area to be treated, reduce the broadcast rates proportionately.

²For cyst-forming nematodes, increase dosage to 26 gallons per acre (289.6 lbs./acre).

APPLICATION DIRECTIONS

APPLICATION TIMING

This product can be applied at any time of the year when soil conditions permit. Conditions that allow rapid diffusion of the fumigant as a gas through the soil normally give best results. Because this product does not provide residual control of soil pests, it should be used as a preplant application before planting each crop. Soil temperature at the depth of application should be between 40 degrees F and 80 degrees F. In areas where the soil temperature in the spring may not reach 40 degrees F in time to allow application of this product prior to planting, late summer or early fall treatment is recommended. Failure to meet these conditions may result in unsatisfactory product performance.

DRIP APPLICATION

1. Plan the application by calculating the amount of PIC-CLOR 40 EC required at the appropriate rate for the crop; acreage and target pest. [See Table 1 for broadcast equivalent rates.]
2. A secured tarp seal is required for all applications. As a minimum, the tarp seal must remain in place for 14 days. A longer undisturbed interval is required under cold and wet conditions.
3. Apply PIC-CLOR 40 EC through surface or buried drip irrigation systems, being sure to wet the soil thoroughly in the area being treated. Drip emitters should be spaced 8-12" apart.
4. PIC-CLOR 40 EC must be metered into the water supply line and then passed through a mixing device, such as a centrifugal pump or static mixer, to assure proper agitation.
5. Meter PIC-CLOR 40 EC 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.

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6. Use drip irrigation components made only of copper, stainless steel, steel, polypropylene, polyethylene, nylon, Teflon, rigid PVC, EPDM, and Viton. Rigid PVC should not be exposed to undiluted PIC-CLOR 40 EC or more than 1,500 ppm PIC-CLOR 40 EC in the diluted form. Do not use drip tube materials made of aluminum, magnesium, zinc, cadmium, tin and alloys, or vinyl.
7. Field 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 when possible be at 50% of field capacity in the top 2-3" at time of PIC-CLOR 40 EC application.
8. After application of PIC-CLOR 40 EC you should continue to irrigate the area with untreated water to flush the irrigation system. Do not permit PIC-CLOR 40 EC 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 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.

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PLANTING INTERVAL

After fumigation, to prevent phytotoxicity, allow the fumigant to dissipate completely before planting the crop. Do not disturb treated soil for at least 2 weeks. Under optimum soil conditions for dissipation, 1 week for each 10 gallons/acre is recommended, with a minimum interval of 14 days following application. 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. Seed may be used as a bioassay to determine if the product is present in the soil at concentrations sufficient to cause plant injury. Do not plant if odor of the product is present within the zone of fumigation.

BUFFER ZONE

An application of this product shall not be made within 100 feet of an occupied structure, such as a school, hospital, business or residence. No person shall be present at this structure at any time during the seven consecutive day period following application. **This buffer zone does not apply to use on soils that will not experience an additional 1,3-D treatment for at least three years. For example, on soils to be planted with fruit trees, nut and nursery crops, perennial vines, hops, mint or pineapple.** Note: This product shall not be applied to soils more frequently than once each year.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in tightly-closed original container in a cool, secure place away from dwellings. Do not allow contamination of seeds, plants, fertilizers, or other pesticide chemicals. Do not contaminate food, feed stuffs, drugs, or domestic water supplies.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide and rinsates 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.

REFILLABLE CONTAINERS: Cylinders are the property of the distributor 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 shipping. Do not ship cylinders without safety caps or valve protection bonnets. When a cylinder is partially used and there is no further requirement for the product, contact the distributor for return instructions. Containers should never be refilled by the consumer or used for any other product or purpose.

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WARRANTY DISCLAIMER

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.**

INHERENT RISKS OF USE: It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.) abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the seller. To the extent consistent with applicable law, all such risks shall be assumed by buyer.

LIMITATION OF REMEDIES: To the extent consistent with applicable law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at the company's election, one of the following: (1) Refund of purchase price paid by buyer or user for product bought, or (2) Replacement of amount of product used. To the extent consistent with applicable law, the company shall not be liable for losses or damages resulting from handling or use of this product unless the company is promptly notified of such loss or damage in writing. To the extent consistent with applicable law, the company shall not be liable for consequential or incidental damages or losses. The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the company or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.