

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

SFP 2 3 1993

Tom Duafala, Ph.D. Trical P.O. Box 1327 Hollister, CA 95024

OFFICE OF PREVENTION PESTICIDES AND **TOXIC SUBSTANCES**

Dear Dr. Duafala:

Subject: Request to Amend Telone Registrations in Response to

Telone Final Agreement

Tri-Form 40/60

EPA Registration No. 11220-15

Tri - Form 15

EPA Registration No. 11220-20

Tri-Form 30

EPA Registration No. 11220-21

Your Submissions Dated September 1, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide Rodenticide Act (FIFRA), as amended is acceptable provided that you:

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - In the Hazards to Humans section incorporate the following statements required for chloropicrin:

This fumigant has the capacity to cause marked irritation to the upper respiratory tract. A strong lachrymator (tear-producing eye irritant). 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.

Following the Hazards to Humans section add the following section:

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/M⁵). concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa, Draeger, or Sensidyne.

- c. In the Restricted Use Block delete "DUE TO ACUTE TOXICITY". This phrase is misleading since according to the 1,3-dichloropropene Registration Standard this chemical was made a restricted use pesticide due to its acute toxicity and its carcinogenicity.
- d. Delete the new section with the heading SHIPMENT in the Storage and Disposal Section. Although in the past we have allowed Department of Transportation shipping label requirements to appear on pesticide labeling, we have not verified that the proposed wording is accurate or appropriate for pesticide labeling.
- 2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

The amended labeling supersedes all previously accepted labeling. The effective dates for the new label requirements is June 30, 1993. Please note that any product not bearing the approved labeling in accordance with the October 7, 1992 Final Agreement will be considered misbranded and will be subject to enforcement action.

This acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR Part 156, Subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency. This product is subject to the Worker Protection Regulations and its compliance dates and you must make these label changes in accordance to its requirements.

Sincerely yours,

Cynthia Giles-Parker

Product Manager (22) Fungicide-Herbicide Branch Registration Division (H7505C)

CLGales-pah

Enclosure

cc: Lisa Engstrom
Special Review Branch
Special Review and Reregistration Branch (H7508W)

3) 15

RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY

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

TRI-FORM 40/60

PREPLANT SOIL FUMIGANT

ACTIVE INGREDIENTS: 1,3-Dichloropropene Chloropicrin INERT INGREDIENTS:

37.6% 59.4% 3.0%

3.0%

100.0%

Contains 4.51 pounds of 1,3-dichloropropene and 7.13 pounds of chloropicain per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

NOTICE: Read the entire label, Use only according to label directions. Refer to inside of label booklet for Direction for Use including Storage, and Disposal and additional precautionary information including requirements for Personal Protective Equipment (PPE).

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

FIRST AID

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

IF ON SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If water is not immediately available, remove excess chemical from skin with adsorbent material such as tower or dry soil, then proceed at once to a location where water is available and thoroughly wash contaminated skin with plenty of water. Call a physician.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Because rapid absorption may occur through tungs if product is aspirated and causes systemic effects, the decision to induce vomiting or not should be made by a physician. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against loxicity when considering emptying the stomach.

See Side Panel For Additional Precautionary Statements.

TRICAL

P.O. BOX 1327 . HOLLISTER, CA 95024

E.P.A. EST. 11220-CA-1,2,3,4; FL-1

NET CONTENTSLBS.

ACCEPTED
with COMMENTS
In EPA Letter Detect

SEP 23 1993

Under the Federal Insecticide Provision, and Lodenticide Act or special A. for the probable of the Louisian IPA Roy. No.

11220-15

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS:

DANGER

-PELIGRO

Si usted no entiendo la etiqueta, busque a alguien para que se la explique a usted en detalle.

HAZARDOUS LIQUID AND VAPOR. MAY BE FATAL IF INHALED, ABSORBED THROUG SHIN OR SWALLOWED. CAUSES SEVERE ETE DAMAGE. CAUSES BURNS OF SKIN. MAY CAUSE LIVER AND KIDNEY DAMAGE ÁND SYSTEM RESAIRATORY IRRITATION NOSKI PROLDINGED CONTACT. MAY CAUSE ALLERGIC SKIN REACTION. 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 PRECAUTIONS, AND BY WEARING PROTECTIVE CLOTHING SPECIFIED ON THE LABEL AND IN THE LABEL BOOKNET.

> PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS (PPE);

REQUIREMENTS (PPE).

The chemical resistance selection category for this product is H. For more information about PPE insternals that are resistant to this product for various lengths of time, consult an EPA chemical-resistance selection chart. Heat illness mitigation techniques are in practice, such as gradual adjustment to heat and respirator stress, fans for cooling, cooling vestly, frequent breaks, frequent links of dirinking water, and naintaining weight from day-to-day.

NOTE: RESPIRATORY PROTECTION:

(ONLY FULL-FACED RESPIRATORS MAY BE WORN)

When using respiratory protection, chemical dartidges or canisters must be replaced daily or when the odor of imitation of this product becomes apparant, whichever is sconer. The following respiratory protection is acceptable for use with this product A MSHA/NIOSPIApproved fulf-face light-fitting respirator or losse-fitting powered air purifying (FAPR) respirator with cartridge or canister specified in the label booklet and only when all of the following criteria have been met:

1. Respirator fil-lesting and fil-checking-program conforming to OSHA's as

- 1. Respirator fit-lesting and fit-checking program conforming to OSHA's as described in 29 CFR Part 1910.134.
 2. Training for respirator user conforming to OSHA's training requirement as
- described in 29 CFR Part 1910.134.

Examination of the respirator user by a qualified medical practitioner to ensure physical ability to safety year that tryle of respirator. NOTE: CHEMICAL PROTECTIVE CLOTAING (CPC)

NOTE: CHEMICAL PROTECTIVE CLOTAING (CPC)
There are no protective clothing/malerials that are completely impervious to penetration by figuid 1,3-dichlopropene. CRC constructed of SARANEX, neoprane and chlorinated polyethylene provide short-term liquid contact and splash protection. CPC constructed of EVAL laurinate barriers (for example, RESPONDER suits manufactured by Ufe-quand or SILVERSHIELD gloves manufactured by North), Vitors and Telion provide longer-term protection. Leather gloves and shoes offer no protection from 1,3-dichloropropene and if contaminated cannot be made safe to wear. Render unusable and dispose of contaminated leather poofs inchaffing shoes. contaminated leather goods, including shoes.

NOTE: See Label Booklet For Additional Personal Protective Equipment Requirements.

USER SAFETY RECOMMENDATIONS READ LABEL VERY CAREFULLY

CONTRACTOR OF THE PROPERTY OF

- READ LABEL VERY CAREFULLY

 1. Do not get in eyis.

 2. Do not breathe the vapor.

 3. Do not swallon any 1,3-ochloropropone.

 5. Never siphon 1,3-ochloropropone by mouth or use mouth to blow clogged lines, nozzles, etc.

 Do not easy drink, smoke, or chew gurn or tobacco while handling

Do not east drink, smoke, or chew gum or tobacco while handling this product or bifore washing hands and face thoroughly with soap and water. Do not use the foliat before thoroughly washing hands.

If this product penetrates through your clothing or personal protective equipment, stop handling this product immediately, remove the clothing and equipment, wash your body thoroughly, and put on clean clothing and equipment before resuming the handling activity. Never wear protective gear having the odor of 1,3-dichloropropens.

having the odor of 1,3-dichloropropens.

After handling this product, remove personal protective equipment immediately. Wash the outside of gloves before taking them off. Showed or wash thoroughly and change into clean clothing as soon as possible, biscard clothing and personal protective equipment that cannot be reused, including clothing or other absorbent materials that have been drenched of thoroughly contaminated with this product. Otherwise, wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturer's directions or, if no such directions, in determined the such as the manufacturer's directions or, if no such directions, in determined the such as the such as the separately from directions, in delergent and hot water. Keep and wash them separately from other laundry.

EMERGENCY: In case of an emedigency endangering health or the environment involving this product, call the 24 Hour Emergency Phone Number (800) 424-9300.

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. In case of spills, properly dispose of contaminated materials.

Ground Water Advisory: 1,3-dichloropropene is known to move through soil and under certain conditions has the potential to reach ground water as a result of agricultural use. Application in areas where soils are permeable and ground water is near the surface, or in karst goology, could result in ground water

PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE: Do not use, pour, spal, or store near heat or open flames. Do not cut or weld container.

ENGINEERING CONTROLS REQUIREMENTS

MECHANICAL TRANSFER SYSTEM:

Personal protective equipment specified for "Direct Contact Activities" must be worn by the operator of the mechanical transfer system. The operator of the mechanical transfer system must have available to him the manufacturer's written instructions for operation of the system and must read and understand (or have explained to him in detail) the proper operation and maintenance of the

WITH ALL BULK AND MINI-BULK CONTAINERS:

- 1,3-dichloropropene must be transferred through connecting hoses, pipes, and/or couplings sufficiently light to prevent workers or other persons from coming in contact with liquid 1,3-dichloropropene.
- 1. All hoses, piping, and tanks used in connection with 1,3-dichloropropene shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.
- External sight gauges shall be equipped with valves so that pipes to sight
 gauge can be shut off in case of breakage or leakage.
 The mechanical transfer system must be adequate to make necessary
- measurements of the posticide being used.

 Shul-off devices must be installed on the exit end of all hoses and at all
- disconnect points to prevent leakage of 1,3-dichloropropene 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
- The pressure in hoses used to move 1,3-dichloropropene beyond a pump must not exceed the manufacturer's maximum pressure specification.

DIRECTIONS FOR USE

it is a violation of Federal law to use this product in a manner inconsistent with as labeling. Read all Directions for Use carefully before applying.

AGRICULTURAL USE REQUIREMENTS

Use his product only in accordance with its labeling. For any requirerpoils specific to your State, consult the agency in your State responsible for pasticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers may be in the area duling application. For any requirements specific to your State, consult the agency in your State responsible for posticide regulation.

The restricted entry tolerval (REI) following application of a product containing 1,3-dichloropeopene is 72 hours.

- The following Personal Protective Equipment must be worn for early early into treated areas that involves contact with treated soil;

 a. An approved full-face soft-fitting respirator equipped with organic vapor cartridges (MSHAVNIOSH approval CC23C) or can ster approved for pesticides (MSHAVNIOSH approval AO14G) whenever the odor of 1,3-dichloropropers can be detected.
- Chemical resistant goves and/convear. The footwear must be worn when waiting on ireated soil within 72 hours after application.

Notify workers of the application by providing oral or written warnings.—Wittlen or oral warning riust be given to workers who are expected to be in a sealed area or in any area about to be treated with this product. These onal warnings shall inform workers of areas or fields that may not be entered without protective equipment unit 72 hours after treatment. In case of serious proscure equipment until 72 hours stier treatment. In case of sacidental exposure, follow directions as shown by the Frist Aid section on this label. When oral warnings are given, warnings shall be piven in a language custorparity understood by workers. Written warnings must include the fallowing information; DANGER, Area treated with soil furnigant containing 15-dictioropropens on (insert date of application). Do not enter without, we containing a customent until 72 hours after treatment. rolactive equipment until 72 hours after treatment.

STORAGE, SHIPMENT AND DISPOSAL

SHIPPING, STORAGE: Agricultural Chemical. Do not ship or store with food, feeds, drugs or clothing.

SHIPMENT: This furnigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as RQ Poisonous Lig. 3, sammable, n.o.s. (contains Dichloropropene and Chloropicnia), 6.1, UN 2329, PG 1, Poison-Inhalation Hazard, Hazard Zone B and no exemptions from specifications, packaging, marking, and labeling are allowed. Describe empty cylinders as having last contained Dichloropropone and Chloropicrin (Poison-Inhalation Hazard). Do not ship with food, feeds, or clothing.

STORAGE: Store in tightly-closed original container in a cool 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

DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide and rinsales 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. Because 1,3-dichloropropene is company under certain conditions, flush all application equipment with fluel oil, kerosone 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 bofore storing. Do not use water. Dispose of rinsate by applicable Fedoral, State and local regulations. Never introduce rinsate or unused product into surface or underground water supplies,

METAL CONTAINER DISPOSAL: To dispose of container emplied during application operation, remove bungs, invert container in the field just treated and ensure that the container is free of liquid. Orient container such that ventilation of bung holes is not restricted. Allow containers to serate for at least 14 days. Replace bungs prior to transport. After aeration, offer container to qualified reconditioner or dispose of as directed by State or local regulations.

REFILLABLE CONTAINERS: Contact the company and/or the company representative for directions on cleaning and handling relitable containers.

BULK PRODUCT TRANSFERS: Dry break or dry disconnect couplings are required for all product transfers involving bulk containers for products containing 1,3-dichloropropene as of September 30, 1993.

WARRANTY DISCLAIMER

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 not any other warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE, express 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 the risk of any understand.

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Crop injury, tack of performance, or other unintended consequences may result because of such factors as use of the product contrary to tabel and tabel booklet instructions (including conditions noted on the tabel and tabel booklet, such as unavorabel temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, burricanes), presence of other contrals the proposed applications and the factors at a futuition are becaused the contral of the materials, the manner of application, or other factors, all of which are beyond the control of the company or the seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

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 moduct bought; or, (2) Replacement of amount of product used. The company shall not be liable for losses or damages resulting from handling or use of this product unless the company is promptly notified as such loss or damage in writing. In no case shall the company be liable for consequential or incidental damages or losses. The terms of the Wasserty Disclaimer above and this Umitation of Remedies cannot be varied by any written or vedes statement or agreements. No employee or sales agent of the company or the select is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remades in any manner.

CA May, 1993-

RESTRICTED USE PESTICIDE DUE TO ACUTE TOXICITY

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

LABEL BOOKLET

Directions for Use Including Storage and Disposal; Precautionary Information, including Requirements for Personal Protective Equipment; Engineering Control and Requirements; and Agricultural Use Requirements.

TRI-FORM 40/60

ACTIVE INGREDIENTS:

1,3-Dichloropropene

Chloropicrin

INERT INGREDIENTS:

37.6% 59.4%

3.0%

100.0%

Contains 4.51 pounds of 1,3-dichloropropene and 7.13 pounds of chloropican per gallors,

TRICAL

P.O. BOX 1327 . HOLLISTER, CA 95024

E.P.A. EST. 11220-CA-1,2,3,4; FL-1 E.P.A. REG. NO. 11220-15

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

NOTICE: Read the entire label. Use only according to label directions. Refer to inside of label booklet for Direction for Use including Storage, and Disposal and additional precautionary information including requirements for Personal Protective Equipment (PPE).

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

FIRST AID

IF INHALED: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

IF ON SKIN: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If water is not immediately available, remove excess chemical from skin with adsorbent material such as lower or dry soil, then proceed at once to a location where water is available and thoroughly wash contaminated skin with plenty of water. Call a physician.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

IF SWALLOWED: Do not induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Because rapid absorption may occur through lungs if product is aspirated and causes systemic effects, the decision to induce vomiting or not should be made by a physician. If lavage is performed, endotracheal and/or esophageal control is suggested. Danger from lung aspiration must be weighed against loxicity when considering emptying the stomach.

See Side Panel For Additional Precautionary Statements

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS:

DANGER

PELIGRO

Si usted no entienda la etiquela, busque a alguien para quo se la explique a usled en delalle.

HAZARDOUS LIQUID AND VAPOR. MAY BE FATAL IF INHALED, ABSORBED THROUGH CAUSES SEVERE EYE SKIN OR SWALLOWED. DAMAGE. CAUSES BURNS OF SKIN. MAY CAUSE LIVER AND KIDNEY DAMAGE SYSTEM RESPIRATORY IRRITATION **UPON** PROLONGED CONTACT. MAY CAUSE ALLERGIC SKIN REACTION. 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 PRECAUTIONS, AND BY WEARING PROTECTIVE CLOTHING SPECIFIED ON THE LABEL AND IN THE LABEL BOOKLET.

PERSONAL PROTECTIVE EQUIPMENT REQUIREMENTS (PPE):

The chemical resistance selection category for this product is H. For more information about PPE reaterials that are resistant to this product for various lengths of time, consult an EPA chemical-resistance selection chart. Heat fliness mitigation techniques are in practice, such as gradual adjustment to heat and respirator stress, fans by cooling, cooling vests; frequent breaks, trequent intake of drinking water, and maintaining weight from day-to-day.

NOTE: RESPIRATORY PROTECTION:

(ONLY FULL-FACED RESPIRATORS MAY BE WORN)When using respiratory protection, chemical cartridges or cantisters must be
replaced daily or when the odor of imitation of this product becomes apparent,
whichever is sconer, The following respiratory protection is acceptable for use
with 1,3-dichloroproponer: A MSNANIOSH approved full-face tight-fitting
respirator or loose-fitting powered air purifying (PAPR) respirator with cartridge
or canister specified in the label booklet/ and only when all of the following critaris have been met: criteria have been met:

- (1). Respirator fit-testing and fit-checking program conforming to OSHA's as described in 29 CFR Part 1990, 34;
 (2). Training for respirator user conforming to OSHA's training requirements as described in 29 CFR Part 1910, 154;
 (3). Examination of the respirator user by a qualified medical practitioner to ensure physical ability to safety wear that style of respirator.

NOTE: CHEMICAL PROTECTIVE CLOTHING (CPC)There are no protective clothing materials that are completely impervious to penetration by liquid 1,3-dichinopropene. CPd constructed of SARANEX, neoprene and chlorinsted polyethytene provide anortherm liquid contact and splash protection. CPC constructed of EVAL laminate barriers (for example, RESPONDER suits manufactured by Life-guard of SILVERSHIELD gloves manufactured by North), frion and Telion provide longer-term protection. Leather gloves and shoes offer no protection from 13 dichloropropene and it contaminated cannot be stude safe to wear. Render thusable and dispose of contaminated leather goods, including shoes.

1. Direct Contact Activities: The following personal protective equipment (PPE) must be worn by individuals performing tasks the may involve direct contact with figure 1,3-dichloropropens or from direct venting of 1,3-dichloropropens/vapor to the atmosphere. These tasks, which must be conducted outdoors or in a well-ventilated area, include but are not limited to:

Equipment calibration or adjustment,

Equipment calibration or adjustment;
Equipment defan-up and repair;
Product sampling;
Any activity less than 6 feet from an unshielded pressurized hose containing 1,3-dichloropropene;

Rinssie disposal; Fumigan transfer; Clean-up of small spills; Preparing containers for seration:

- (a). A full-face light-fitting respirator or loose-fitting powered air puttying (PAPR) respirator equipped with organic vapor carridges (MSHA) NIOSH approval TC-23C) or canister approved for pesticides (MSHA) HOSH approval TC-14G).
- Chemical resistant aprox.

Headgear if there is a potential for contact with liquid 1, 3-dichlo propens from an overhead source.

Chemical resistant gloves and footwear (E.G., EVAL or neoprene).

See Requirements Continued in Third Column

PROTECTIVE EQUIPMENT REQUIREMENT'S (Continued):

Application: Persons operating application equipment for this product ist wear:

(a). Coveralis (b). Shoos and socks.

In addition, the following PPE must be worn whenever the odor or imitation of this product can be detected: (a) An approved full-lace light-litting respirator or loose-litting powered air punifying (PAPR) respirator equipped with granic vapor cattridges (MSHA/NIOSH approval TC-23C) or canistor approved for posicides (MSHA/NIOSH approved TC-14G), NOTE: The PPE specified above for "Direct Contact Activities" must be readily

available at all times and worn if it is necessary to leave the vehicle applying this product to perform any direct contact activity.

3. Early Entry Activities: Persons entering the treated area to perform soil sealing or any other early entry activity within 72 hours after application must

(a). Coveralls or a long-sleeved shirt and pants.

(b). Shoes and socks)

in addition, the following PPE must be readily available at all times and worn

In addition, the following PPE must be readily available at all times and worn under the conditions indicated:

(a), An approved full-face sight-fitting respirator or joose-fitting powered air purifying (PAPR) respirator equipped with organic vapor cartridges cartridges (MSHA/NIOSN approval TC-23C)/or canister approved for for pesticides (MSHA/NIOSN approval TC-14G) whenever the odor or imitation of this product can be detected.

(b). Charrical resistant gloves and footwear (r.g., EVAL or neoprene) whenever there is direct contact with soil treated with this product.

4. Special Activities: The following personal protective equipment must be worn by persons exposed to high airborne concentrations of this product, such as clean-up following large spills, expecture to this product in poorly ventilated areas and bulk tank cleaning:

areas and bulk tank cleaning:
(a). Body protection providing gas in protection (level A) is required to

prevent possible skin effects.

prevent possible skin effects.

(b). A positive pressure atmosphere supplying respirator (MSHANIOSH approval number prefix TC-96C or TC-19F) must be worn.

USER SAFETY RECOMMENDATIONS

READ LABEL VERY CAREFULLY

 Do not get in eyes.
 Do not breathe the vapo 3. Do not get on skin.

4. Do not swallow any 1/3-dichloropropene.
5. Never siphon 1,3-diphloropropene by mouth or use month to blow out.

clogged lines, nozzies, elc.

Do not eat, drink, smoke, or chew gurn or tobacco while handling this pro-product or before weshing hands and face thoroughly with apap and water.

product or belong washing hands and ace thoroughly was been and waser. Do not use the logist before thoroughly washing hands.

If this product penetrates through your clothing or personal protective equipment, stop handing this product immediately, remove the clothing and equipment, yash your body thoroughly, and put on clean clothing and equipment before resuming the handing activity. Never wear protective gear having the body of 1,3-dichloropropens.

After francising this product, remove personal protective equipment immediately. Wash the outside of gloves before taking them off. Shower or

wash fromoughly and change into clean clothing as soon as possible.

Discard clothing and personal protective equipment that cannot be reused including clothing or other absorbent materials that have been drenched or thiroughly contaminated with this product. Otherwise, wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturer's directions or, if no such directions, in detergent and hot water. Keep and wash them separately from other laundry.

EMERGENCY: In case of an emergency endangering health or the environment involving this product, call the 24 Hour Emergency Phone Number (800) 424-9300,

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. In case of spills, properly dispose of contaminated materials.

Ground Water Advisory: 1,3-dichloropropone is known to move through soil and under certain conditions has the potential to reach ground water as a result. of agricultural use. Application in areas where soils are permeable and ground water is near the surface, or in karst goology, could result in ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE: Do not use, pour, spill, or store near heat or open flames. Do not cut or wold container.

ENGINEERING CONTROLS REQUIREMENTS

MECHANICAL TRANSFER SYSTEM; Personal protective equipment specified for "Direct Contact Activities" must be worn by the operator of the mechanical transfer system. The operator of the mechanical transfer system must have available to him the manufacturer's written instructions for operation of the system and must read and understand (or have explained to him in detail) the proper operation and maintenance of the system.

WITH ALL BULK AND MINI-BULK CONTAINERS: 1,3-dichloropropens must be transferred through connecting hoses, pipes, and/or couplings sufficiently light to prevent workers or other persons from coming in contact with figuid 1,3-dichloropropens.

1. All hoses, piping, and lanks used in connection with 1,3-dichloropropene 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. The mechanical transfer system must be adequate to make necessary

measurements of the posticide being used.

 Shut-off devices must be installed on the exit end of all hoses and at all
disconnect points to prevent leakage of 1,3-dichloropropose 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.

The pressure in hoses used to move 1,3-dichloropropene beyond a pump must not exceed the manufacturer's maximum pressure specification.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Road all Directions for Use carefully before applying.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its laboling. For any requirements specific to your State, consult the agency in your State responsible for posticide regulation. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers may be in the area during application. For any requirements specific to your State, consult the agency in your State responsible for pesticide regulation.

The restricted entry interval (REI) following application of a product containing 1,3-dichloropropena is 72 hours.

The following Personal Prejective Equipment must be worn for early entry into treated areas that hypotens contact with treated soil;

a. An approved ful-face tight-fitting aspirator equipped with organic vapor carridges (MSHAMIOSH approved Q23C) or canister approved for pesticides (MSHAMIOSH approved Q34C) whenever the odor of 1,3-dichloropropers can be detected.

b. Chemical resistant gloves and convers. This footwest must be worn when waiting on treated soil within 72 hours after application.

waiting on treated soil within 72 hours after application.

Notify workers of the application by providing oral or written warnings, will ten or oral warning that be given to workers who are expected to be in a treated area or in ago area about to be treated with this product. These oral warnings shall inform workers of areas or fields that may not be enfored without protective equipment until 72 hours after treatment. In case of accidental exposure, follow directions as shown by the First Ald section on this labet. When oral warnings are given, warnings shall be given in a language customatify understood by workers. Written warnings must include the following information: DANGER, Area treated with soil furnigant containing the first follows or one on finant date of application). Do not enter without 1.6-dichlorograpene on (Insert date of application). Do not enter without protective equipment until 72 hours after treatment.

STORAGE, SHIPMENT AND DISPOSAL

SHIPPING, STORAGE: Agricultural Chemical. Do not ship or store with food, foeds, drugs or clothing.

SHIPMENT: This fumigant is classified in the U.S. Department of Transportation Hazardous Materials Regulations as RQ Poisonous Liquids, flammable, n.o.s. (contains Dichloropropone and Chloropicrin), 6.1, UN 2929, PG 1, Poison-Inhalation Hazard, Hazard Zone B and no exemptions from specifications, packaging, marking, and labeling are allowed. Describe empty cylinders as having last contained Dichloropropone and Chloropichia (Polson-Inhalation Hazard). Do not ship with food, feeds, or clothing.

STORAGE: Store in lightly-closed original container in a cool place away from dwellings. Do not allow confamination of seeds, plants, fartilizars, or other pasticide chemicals. Do not confaminate food, feed stuffs, drugs, or domestic water supplies.

DISPOSAL: Pesicide wastes are toxic. Improper disposal of excess posticide and rinsales 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. Because 1,3-dichloropropone is corrosive under cortain conditions, flush all application equipment with fuel oil, kerosena or a similar type of petroleum solvent immediately after usa. Fill pumps and meters with new motor oil or a 50% motor oil/lust oil mixture before sloring. Do not use water. Dispose of rinsate by applicable Federal, State and local regulations. Never introduce rinsale or unused product into surface or underground water supplies.

METAL CONTAINER DISPOSAL: To dispose of centainer emptied during application operation, remove burgs, invert container in the field just treated and ensure that the container is free of liquid. Orient container such that ventilation of burg holes is not restricted. Allow containers to aerate for at least 14 days. Replace bungs prior to transport. After aeration, offer containor to qualified reconditioner or dispose of as directed by State or local regulations.

REFILLABLE CONTAINERS: Contact the company and/or the company representative for directions on cleaning and handling refiliable containers.

BULK PRODUCT TRANSFERS: Dry break or dry disconnect couplings are required for all product transfers involving bulk containers for products containing 1,3-dichloropropone as of September 30, 1993.

WARRANTY DISCLAIMER

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 FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of his product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

INHERENT RISKS OF USE

It is impossible to eliminate at risks associated with use of this product. Crop injury, tack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label and label booklet instructions (including conditions noted on the label and label booklet, such as unfavorabel temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, formadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the company or the seller. All such risks shall be assumed by Buyer.

LIMITATION OF REMEDIES

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. The company shall not be liable for losses or damages resulting from handling or use of this product unless the company is promptly notified os such loss or damage in writing. In no case shall the company 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 statement or agreements. No employee or sales agent of the company or the sellor is authorized to vary or exceed the terms of the Warranty Disclaimer or this Unitation of Remedies in any manner,

CA May, 1993-

GENERAL INFORMATION

Commence of the second section of

This product is a multi-purpose liquid lumigant for preplant treatment of soil to control nemaločes, symphytans, wireworms and contain soil bome diseases in cropland.

Before fumigation, soil sampling for the type and number of posts present is recommended. In fields where pre-treatment soil samples indicate the presence of high population levels of nemalodes, a successful fumigation cannot be expected to eradicate entire populations. Therefore, post-treatment sampling is recommended to determine the nood for additional post 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 posts.

GENERAL USE PRECAUTIONS

Soil furnigation using this product should be conducted only according to directions and conditions of use described in this labeling. .

FORMULATOR USE OF 1,3-DICHLOROPROPENE: Labeling for end use products containing 1,3-dichloropropene that are prepared and sold by formulators must comply with all precautionary statements, use precautions, environmental hazards, handling and protective equipment requirements, maximum application rates and other exposure mitigation measures specified in this product labeling.

RECONTAMINATION PREVENTION: This product will control peals that are present in the soil treatment zone at time of furnigation. It will not control peals that are introduced into soil after furnigation. To avoid reinfestation of treated soil do not use irrigation water, transplants, seed pieces, or equipment that could carry soil bome peats from infested land. Avoid contamination from moving infested soil onle treated beds through cultivation, movement of soil from below the treated zone, dumping contaminated tare soil in treated felds and soil contamination from equipment or crop remains. Clean equipment carrefully before entering treated fields.

BULK TRANSFERS: Dry break or dry disconnect couplings are required for all product transfers involving bulk containers for 1,3-dichloropropene as of September 30, 1993.

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 motals.

EQUIPMENT CLEAN-UP: Because 1,3-dichloropropene is corrosive under certain conditions, flush all application equipment with fuel of, 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. Dispose of finsale by incorporation into field just treated or by other approved means. Never introduce finsale or unused product into surface or underground water supplies.

CHEMIGATION: Do not apply 1,3-dichloropropene through any type of imication system.

FERTILITY INTERACTIONS: Funigation 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 funigant are applied to sois that are other cold, wet, soid, or high in organic matter. To avoid injury to certain crops including red beets, carrots, com, radishes, cole crops, legumes (beans), lettuce, onions, and sugar boets, fertilize as indicated by soil tests made after funigation. 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 the product as required by certain state nursery regulations, liming of highly acid soils before furnigation may stimulate nitritication and reduce the possibility of ammonia loxicity. Certain nursery crops such as citiva seedlings, Cornus sp., Crategus sp., spruce, and vegetable crops such as cauliflower have shown evidence of phosphorus deficiency following furnigation. To avoid this possible effect, it is suggested that additional phosphate fertificer (foliar applied) is recommended where experience indicates a deficiency may occur.

APPLICATION TIKING: This product can be applied at any time of the year when soil bendations permit. Conditions that allow rapid diffusion of the fulfiligant 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. The following soil temperature and moisture conditions should exist at time of treatment. Failure to meet these conditions may result in unsatisfactory product performances.

SOIL CONDITIONS: <u>Soil immorphing</u> at the depth of application must be between 40 degrees F and 50 degrees F. In areas where the soil iemporature in the spring may not reach 40 degrees F in time to allow application of this product prior to planting, tale summer or early fall treatment is recommended.

<u>Soil moisture</u> throughout the desired freatment zone should be at or near the permanent witing point to allow optimum dispersion of the furnigant, which moves as a gas through the soil air spaces. The permanent witing point varies with soil texture and organic matter content. Coarser textured soils can be furnigated under conditions of higher soil moisture than finer textured soils; however, if the soil moisture is too high, furnigant movement will be returded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a quide to conditions that will be acceptable. If you do not know how to determine the soil moisture content of the area to be treated, consult your local extension service or soil conservation service specialist or pest control advisor (ag consultant) for assistance.

In general, no irrigation should immediately precede subsciting or fumigation; however, when surface soil moisture conditions are not likely to provide an adequate seal operats fumigant loss, a very light sprinkler irrigation to well the top 1 to 2 inches of soil may be useful.

SOIL PREPARATION: The soil should be free of clods. Large clods can proved effective soil seafing and reduce effectiveness of this product. Plant residues should be thoroughly incorporated into the soil prior to treatment to avoid interfering with application. Undecomposed plant material may harbor pests that will not be controlled by furnigation. Little or no crop residue should be present on the soil surface. Crop residue that is present should be premit the soil to be sealed effectively. Compacted soil tayors within the desired treatment zone should be fractured before or during application of the furnigant. Deviation from the above conditions may result in unsatisfactory results.

PLACEMENT OF FUMIGANT: This product may be applied as either a broadcast (overall) or now treatment. It must be placed at least 10 inches below the final soil surface. When soil conditions allow, placement a minimum of 12 inches below the final soil surface is recommended. Deeper placement is recommended when fumigating soil to be planted to deep-rooted plants, such as personal finit and nut crops, or to control deeply distributed pests.

APPLICATION METHODS AND EQUIPMENT.

BROADCAST APPLICATION: Use thisel (shank), Nobel (sweep) plow or plow-sole application equipment. For best results when using chisel equipment, use ripper-type, forward-swept shanks. Nobel plow equipment is particularly useful for fall furnigation when the soil still contains some standing undecomposed plant material. Subsoiling may be necessary before application as described under "Soil Preparation". Choose application equipment which allows the deepest application and best soil seal under existing conditions.

The furnigant outlet spacing varies with the type of application equipment used.

With chief equipment a furnigant shank spacing of 12 to 24 inches is recommended. The outlet spacing for this equipment may be up to 1 1/2 times the application depth but generally should be equal to the application depth and should not exceed the soil-shattering capability of the chisels. The maximum outlet spacing should not exceed 24 inches. With physical equipment a 12-inch outlet spacing is recommended. Do not exceed an outlet spacing of 18 inches. With higher (sweep) plant emipment use an outlet spacing of 9-12 inches along the sweeps.

Broadcast application can be made in the same direction or at an angle to the direction of row planting.

ROW APPLICATION: Use chisel equipment to treat a band of soil where the crop is to be planted, i.e. the plant row. One or two chisels per plant row is recommended, in general, when one chisel is used, apply product at the flow rates given. When two chisels por plant row are used, space the chisels (furnigant outlets) 8 to 12 inches apart and divide the flow rates equally between the two outlets. Regardless of the number of chisels used, the amount of furnigant applied per 1000 feet of plant row should remain the same. With cartain deeper rooted crops such as potatoes and sugar beets, higher flow rates may be necessary to ensure adequate treatment of the zone of soil where primary root growth occurs; however, in no case should the amount of furnigant applied por acre exceed the gallons por acre rates for broadcast treatment.

To prevent seed germination problems caused by improper seed-to-soll contact or improper seeding depth, do not place the seed directly over the furrow left by the application chiselfs). When one chiself is used per plant row, place the seed about 4 inches to one side of the chisel furrow. When two chisels are used por plant row, plant the seed offset from the chisel trace.

SEALING THE SOIL AFTER APPLICATION: Immodiately after chisol application of the product, the soil should be "scaled" to prevent furnigant loss and onsure that an effective concentration of furnigant is maintained within the soil for a period of several days.

Eor Broadcast Treatment (flat furnication), seating can be accomplished with equipment that will uniformly mix the soil to a depth of 3 to 4 inches to effectively eliminate chisel or plow traces which can allow direct escape of the furnicant. A tandom disc or similar equipment may be used for this purpose. To maximize seating, steps should also be taken to compact the soil surface to further retard the rate of furnicant loss by following with a ring roller, cultipacker or roller in combination with tillage equipment. Compaction of the soil surface along may give the appearance of adequate seating without effectively disrupting chisel or plow traces.

For Row Treatment, forming the beds at the time of application should be accomplished in a manner that places the furnigant at least 12 inches from the nearest solvair interface. The closest solvair interface could be the furnow for multiple knile applications or the top of the bed for single knile applications. Row treatments into preformed bods should be sealed by disrupting the chisel trace using press sealers, ring refers or by reforming the bods and following with such equipment.

Sealing can also be improved by applying non-periorated plastic firm, such as polyethylene, over the entire area or in strips. Use of a film to seal the soil surface does not climinate the need to eliminate chisel traces prior to application of the plastic film unless simultaneous application and tarp laying by the same piece of equipment occurs and the tarp is a minimum of 1 mil thick.

Proper soil conditions at the time of application (see Soil Preparation section) are important to ensure proper placement of turnigant (see Placement of Furnigant section) and obtaining adequate seating. Prior tillage should be adequate to eliminate clock and thoroughly mix crop residues into the soil.

SOIL FUMIGATION INTERVAL: Leave the soil undisturbed and unplanted for at least 7 days after application of the furnigant. A longer undisturbed interval is required if the soil becomes cold or wet, and for deep-moted tree, shrub and vine planting sites.

After the furnigation interval, to prevent phytoloxicity, allow the furnigant to dissipate completely before planting the crop. Under optimum soil conditions for dissipation, I week for each 10 gallons' acre is recommended. For fruit, nut, and nursery crops at least three months should elapse between treatment and planting. To hasten dissipation, especially if heavy rains or low temperatures occur during the treatment period, till the soil to the depth of furnigant application. Use a knile-like chisel without turning the soil to reduce the possibility of recontaminating the treated soil. Dissipation is usually complete when the odor of the product is no longer evident at the application depth. Seed may be used as a bicassay to determine if the product is present in the soil at concentrations sufficient to cause plant injury. Do not plant if the odor of the product is present within the zone of furnigation.

APPROVED USES

TRI-FORM 40/60 is a preplant soil furnigant for control of soil-borne pests such as woreworms and normalodes, and diseases caused by certain species of Rhizcotonia, Pythian, Fusanum, Phylophthone, and Versicillium. TRI-FORM 40/60 is to be used in soil to be planted to the crops listed below.

Booklet Page 9

APPLICATION RATES TRI-FORM 40/60

Crop	Type of Treatment	'Soil Type	Gallons Per Acre ¹
Brussel Sprouts Cucumbers Eggplant Floral Crops Melons Nursery Crops	Over-all (Broadcast)	Mineral Muck or peat	21.9 to 36.3 58.2 to 87.3
Onions	Over-all (Broadcast)		51.0 to 58.4
Plant and Seed Beds Radishes	Over-all (Broadcast)	Mineral Muck or peat	29.1 to 36.3 58.2 to 87.3
Strawberries	Over-all (Broadcast)	Mineral	58.2 to 87.3
Sweet Potatoes	Over-all (Broadcast)		51.0 to 58.4
Tomatoes	Over-all (Broadcast)	Mineral Muck or peat	21.9 to 36.3 58.2 to 87.3

¹ Use the higher rates in heavier soil.

NOTE:

- 1. Use highest rate on heavy soils such as clay or muck and lowest rate on light sandy soils.
- Use highest rate for cyst-forming nematodes and Verticillium wilt control.
- 3. Row or bed applications may be made at the broadcast rates, but the amount used will be proportionately less per acre depending on the row spacing and width of treatment in the row or bed.