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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

DEC 16 1994

TOM DUAFALA TRICAL, INC. P.O. BOX 1327 HOLLISTER, CA. 95024

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject: Label Amendment Submission of 6/20/94 in Response to PR' Notice 93-7 EPA Reg. No. 11220-15

TRI-FORM 40/60

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- WITHIN one year from date of this acceptance.



Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Fin Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

RESTRICTED USE PESTICIDE

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

TRI-FORM 40/60

A LIQUID SOIL FUMIGANT FOR PREPLANT TREATMENT OF CROP LANDS TO CONTROL PLANT PARASITIC NEMATODES AND CERTAIN OTHER SOIL PESTS. NOT FOR USE IN GREENHOUSES OR OTHER ENCLOSED AREAS.

> **ACTIVE INGREDIENTS:** 1,3-Dichloropropene Chloropicrin **INERT INGREDIENTS:** TOTAL

37.6% 59.4% 3.0% 100.0%

Contains 4.51 pounds of 1,3-Dichloropropene and 7,13 pounds of chloropicnin per gallon,

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

Peligro: 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 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 towel 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 toxicity when considering emptying the stomach.

See Side Panel For Additional Precautionary Statements.

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

NET CONTENTSLBS.

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

1220-15

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS: DANGER

HAZARDOUS LIQUID AND VAPOR.

- DO NOT SWALLOW ANY OF THIS PRODUCT, MAY BE FATAL IF SWALLOWED. DO NOT GET IN EYES, CAUSES SEVERE EYE INJURY.

DO NOT GET IN EYES, CAUSES SEVERE EYE INJURY.

DO NOT GET ON SKIN, MAY BE FATAL IF ABSORBED THROUGH THE
SKIN, CAUSES SKIN BURNS, MAY CAUSE ALLERGIC SKIN REACTION,
DO NOT BREATHE VAPOR. MAY BE FATAL IF INHALED, MAY CAUSE
LUNG, LWER, AND KIDNEY DAMAGE AND RESPIRATORY SYSTEM
IRRITATION UPON PROLONGED CONTACT.

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 FUNDAMY STATEMENTS, AND BY WEARING THE PERSONAL
PROTECTIVE EQUIPMENT SPECIFIED IN THIS LABELING.
THIS FUNDAMENT HAS THE CAPACITY TO CAUSE MARKED IRRITATION
TO THE UPPER RESPIRATORY TRACT. A STRONG LACHYMATOR
(TEAR-PRODUCING EYE IRRITANT), LOW CONCENTRATIONS ARE CAPABLE OF CAUSING PAINFUL EYE RIRITATION. THE EFFECT MAY BE SO
POWERFUL THAT A PERSON MAY BECOME TEMPORARILY BLINDED
AND PANIC-STRICKEN. THAT, IN TURN, MAY LEAD TO ACCIDENTS.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/M³). The air concentration level is measured by a direct reading detection device, such as a Malheson-Kitagawa, Draeger, or Sensidyne.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

CENSONAL PROTECTIVE EQUIPMENT (PPE)
Chemical-Resistant Malerials: Some materials that are chemical-resistant to this product are steed below, if you want more options, follow the instructions for calegory if on an EPA chemical resistance category selection chart. PPE constructed of Saranex, neopreso, and chlorinated polyethylene provide short-term contact or splash protection against faquid of this product. Longer-term protection is provided by PPE constructed of Viton, Telfon, and EVAL barrier laminates (for example, Responder suits manufactured by Life-guard or Silvershied gloves menufactured by North). Leather, canwas, or cotton materials offer no protection from this product and must not be worn when contact with this product is possible.

- (1) Handlers Performing Direct-Contact Tasks: Direct-contact tasks are tasks performed outdoors or in a well-ventibled area. They include:

 equipment calibration or adjustment
- equipment cleanup and repair

- product sampling
 application or soil-sealing outside an enclosed cab
 any activity less than 6 feet from an unshielded pressurized hose containing this product, removal of tarp or plastic film
- rinsale disposal fumigant transfe
- cleanup of small spills
- cleanup or small spins
 preparing containers for aeration
 nany other handling task not otherwise Ested in (2), (3), or (4) below
 Applicators and other handlers performing direct-contact tasks must wear;
 Coveraits over short-sleeved shirt and short pants,
 Chemical resistant gloves, such as barrier laminate or viton,
 Chemical resistant footwear plus socks,
 Chemical resistant footwear plus socks,
 Chemical resistant footwear plus socks,

- Chemical resistant headgear for overhead exposure
- Chemical-resistant headgear for overhead exposure,
 Chemical-resistant approx.
 Chemical-resistant approx.
 Full-face Respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHANIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHANIOSH approval number prefix TC-14G).
 See further respirator requirements in the "User Safety Requirements" section of the
- (2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must
- Coveralls
- Shoes and socks
- Shoes and socks,
 Plus, if oder or irritation from this product can be detected inside the enclosed cab or if the air concentration level of chloropicrin exceeds 0.1 ppm inside the enclosed cab, handlers in the cab must wear a full-face respirator with either an organic-vapor-removing cartridge with a profilter approved for pesticides (MSHA/NIOSH approval number prefix TC-13C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-13C). See further respirator requirements in the "User Safety Requirements" socillon of the labet.
 In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab full perform any direct-contact activity. The enclosed cab must meet the requirements isled in the Worker Protection Standard (WPS) for agricultural posticides-40 CFR 170.240(d)(5).
- (3) Handlers in Treated Area Within 72 Hours After Application: Only the following handler lasks may be performed in the treated area within 72 hours after the application
- Assessing/adjusting the soll seal

- Assessing pest control, application technique, or application efficacy
 Sampling air or soil for this product
 All other tasks are prohibited until the 72-hour period has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the treated area within 72 hours after application must wear:
 - Coveralls.

Chemical-resistant gloves, such as barrier laminate or viton,
Chemical-resistant footwear and socks,
Plus, if odor or irritation from this product can be detected or if the air concentration raus, a coor or imision from this product can be defected of a the air concentration level of choropicin exceeds 0.1 ppm, handlers must wear a full-face respirator with either am organic-vapor-removing cartridge with a profiller approved for pesticides (MSHANNOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHANNOSH approval number prefix TC-14C). See further respirator requirements in the "User Safety Requirements" section of the label.

See Requirements Continued in Third Column

Requirements, Continued:

- (4) Handlers Exposed to High Concentrations: Handlers exposed to high airborne concentrations of this product, such as cleanup following large spills, in-lank cleaning of bulk tanks, and exposure to this product in poorly ventilated areas, must wear:

 Chemical-resistant suit.
 Chemical-resistant gloves, such as barrier laminate or viton,

 - Chemical-resistant goves, such as barner laminate or vilon,
 Chemical-resistant convear plus socks,
 Chemical-resistant headgear,
 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 the label.

USER SAFETY REQUIREMENTS

1. Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met: (a). Full-face respirators must be worn. (b). Cartridges or cansiters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sconer. (c). Respirators must be R-tested and fitchcoked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910,134). (d). Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910,134). (e). 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 Furnicate alone: It is inspirative to always have an assistant and proper.

salely wear the style or respirator to be worn.

2. Never Funnigate allocate it is imporative to always have an assistant and proper protective equipment in case of accidents.

3. Drivers Responsibilities: Drivers of application equipment must advise other workers of all precautions and procedures, in addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to safely work with the tractor and

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that have been denoted on news, seemed them.

5. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If 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.

6. Contact With Mouth: Never siphon this product by mouth or use mouth to blow out should fines notzies, etc.

6. Contact With Mouth: Never sighon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
7. Heat Illness Avoidance: Use measures to avoid or minimize heat litness 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 heake of drinking water, and maintaining weight from day to day.

USER SAFETY RECOMMENDATIONS

- ers should:
 Wash hands before eating, drinking, chewing gum, using lobacco, or using the loilet,
 Remove clothing immediately if posticide gets inside. 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

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

STORAGE, SHIPMENT AND DISPOSAL

SHIPPING, STORAGE: Agricultural Chemical. Do not ship or store with food, feeds, drugs 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 posticide chemicals. Do not contaminate food, feed stuffs, drugs, or domestic water supplies.

DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticida and DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide and insales 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 corresive under cartain conditions, flush all application equipment with fuel oil, kerosene or a similar type of petroleum solvent immediately after use. Fit pumps and meters with new motor oil or a 50% motor offuel off mixture before storing. Do not use water. Dispose of instate 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 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 restircted. After seration, 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 refillable containers.

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

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. See "Storage, Shipment and Disposal" section. In case of spills, properly dispose of contaminated

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 sreas where soils are permeable and ground water is near the surface, or in karst geology, could result in ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

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

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a 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.

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 dotail) the proper operation and maintenance of the surface.

understand (or have explained to him in detail) are proper operations and himself the system.

WITH ALL BULK AND MINI-BULK CONTAINERS: 1,3-dichloropropene and 1,3-dichloropropene mixed with chloropicin must be transferred through connecting hoses, pipes, and/or couplings sufficiently light to prevent handlors or other persons from conling in contact with liquid 1,3-dichloropropene, and/or chloropicins.

1. All hoses, piping, and tanks used in connection with 1,3-dichloropropene and/or chloropicrin shall be appropriate for use under the pressure and vacuum conditions to appropriate.

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 and leakage.

3. The mechanical transfer system must be adequate to make necessary measurements of the posticide 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 1,3-dichloropropente and/or chloropicrin 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 1,3-dichloropropense and/or chloropicrin beyond a pump must not exceed the manufacturer's maximum pressure specification.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Direction for Use section for information about this standard.

WARRANTY DISCLAIMER

NOTICE: 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 accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FINNESS, 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 foresseable to seller, and buyer assumes the risk of any such use.

INHERENT RISKS OF USE: It is impossible to eliminate all risks associated with use INFIERCENT 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 label and label booklet instructions (including conditions noted on the label and label booklet, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, all of which are beyond the control of the company or the seller. All such risks shall be assumed by Buyer.

control of the company or the seller. At 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, stickt 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 smount 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 of 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 seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

CA April, 1994



RESTRICTED USE PESTICIDE

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

LABEL BOOKLET

DIRECTIONS FOR USE INCLUDING STORAGE, SHIPMENT AND DISPOSAL;
PRECAUTIONARY INFORMATION, INCLUDING REQUIREMENTS FOR PERSONAL
PROTECTIVE EQUIPMENT; ENGINEERING CONTROL AND REQUIREMENTS; AND AGRICULTURAL USE REQUIREMENTS.

TRI-FORM

A LIQUID SOIL FUMIGANT FOR PREPLANT TREATMENT OF CROP LANDS TO CONTROL PLANT PARASITIC NEMATODES AND CERTAIN OTHER SOIL PESTS. NOT FOR USE IN GREENHOUSES OR OTHER ENCLOSED AREAS.

ACTIVE INGREDIENTS:

1,3-Dichloropropene Chloropicrin INERT INGREDIENTS:

37.6% 59.4% 3.0% 100.0%

Contains 4.51 pounds of 1,3-Dichloropropens and 7.13 pounds of chloropicrin per gallon.

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

NET CONTENTS LBS.

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISON

Peligro: Si Usled no entiende la etiqueta, busque a alguien para que se la explique a Usted en detaile. (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 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 towel 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 toxicity when considering emptying the stomach.

See Side Panel For Additional Precautionary Statements.

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS: DANGER

HAZARDOUS LIQUID AND VAPOR

DO NOT SWALLOW ANY OF THIS PRODUCT. MAY BE FATAL IF SWALLOWED.

SWALLOWED.

DO NOT GET IN EYES, CAUSES SEVERE EYE INJURY,
DO NOT GET ON SKIN, MAY BE FATAL IF ABSORBED THROUGH THE
SKIN, CAUSES SKIN BURNS, MAY CAUSE ALLERGIC SKIN REACTION:
DO NOT BREATHE VAPOR, MAY BE FATAL IF INHALED, MAY CAUSE
LUNG, LWER, AND KIDNEY DAMAGE AND RESPIRATORY SYSTEM
IRRITATION UPON PROLONGED CONTACT.

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 FUMIGANT HAS THE CAPACITY TO CAUSE MARKED IRRITATION

THIS FUMIGANT HAS THE CAPACITY TO CAUSE MARKED IRRITATION TO THE UPPER RESPIRATORY TRACT. A STRONG LACHRYMATOR (TEAR-PRODUCING EYE IRRITATION, 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.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm $(0.7 \, \text{mg/m}^3)$. The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa, Draeger, or Sensitiyne.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Chomical-Rosstant 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, reoprene, and choinnaide polyethylene provide short-term contact or splash protection against liquid of this product. Longer-term protection is provided by PPE constructed of Viton, Teflon, and EVAL barrier laminates (for example, Responder suits manufactured by North). Leather, canvas, or cotton materials offer no protection from this product and must not be worn when contact with his product is nowship.

- (1) Handlers Performing Direct-Conlact Tasks: Direct-conlact lasks are lasks performed outdoors or in a well-ventilated area. They include:
- equipment calibration or adjustment
- equipment cleanup and repair

- product sampling:
 application or soil-sealing outside an enclosed cab
 any activity loss than 6 feet from an unshielded pressurized hose containing this
- removal of larp or plastic film
- rinsale disposal fumigant transfer

- rumigant transer cleanup of small spills preparing containers for aeration any other handling lask not otherwise listed in (2), (3), or (4) below ppticators and other handlers performing direct-contact tasks must wear:

 Coveralls over short-sleeved shirt and short pants,
- Chemical-resistant gloves, such as barrier laminate or viton,
 Chemical-resistant footwaar plus socks,
 Chemical-resistant headgear for overhead exposure,

- Chemical-resistant paron,
 Full-face Respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHANIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHANIOSH approval number prefix TC-14G).
 See further respirator requirements in the "User Safety Requirements" section of the label.
- (2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must wear: - Coveralis,

 - Shoes and socks.
- Shoes and socks,
 Plus, if odor or inflation from this product can be detected inside the enclosed cab or if the air concentration level of chloropicrin exceeds 0.1 ppm inside the enclosed cab, handlers in the cab must wear a full-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHANIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHANIOSH NIOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of the label.
 In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity. The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides-40 CFR 170.240(d)(5).
- (3) Handlers in Treated Area Within 72 Hours After Application: Only the following handler tasks may be performed in the treated area within 72 hours after the application

- s compete:

 a Assessing/adjusting the soil seal

 Assessing pest control, application technique, or application efficacy

 Sampling at or soil for this product
 All other tasks are prohibited until the 72-hour period has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the treated area within 72 hours after application must wear:
- Coveralls, Chemical-resistant gloves, such as barrier laminate or viton,

Chemical-resistant ploves, such as barrier laminate or viton.

Chemical-resistant footwear and socks.

Plas, if oder or kritation from this product can be detected or if the air concentration level of chloropicrin exceeds 0.1 ppm, handlers must wear a full-face respirator with either an organic-vapor-removing cartridge with a prefiller approved for pesticides (MSHAMNOSH approval number prefix TC-200), or a canister approved for pesticides (MSHAMNIOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of the labet.

See Requirements Continued in Third Column

Requirements, Continued:

(4) Handlers Exposed to High Concentrations: Handlers exposed to high arborne concentrations of this product, such as cleanup following targe spits, in-tank cleaning of bulk banks, and exposure to this product in poorly ventilated areas, must wear:

- Chemical-resistant suit,
- Chemical-resistant gloves, such as barrier laminate or vilon,
- Chemical-resistant footwaar plus socks,

- Chemical-resistant headgear.

Chemical-resistant headgear, Supplied-air respirator with MSHANIOSH approval number prefix TC-19C or self-contained breathing apparatus (SCBA) with MSHANIOSH approval number prefix TC-13F. See further respirator requirements in the "User Safety Requirements" section of the label.

USER SAFETY REQUIREMENTS

COLER OFFICE 1 IN ACCIDANTIFICATION.

Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met: (a). Full-face respirators must be worn. (b). Cartridges or cansilers must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sconer. (c). Respirators must be Related and fitchecked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (d). Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (a). Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.

must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.

2. Nover Furnigate attone. It is importative to always have an assistant and proper protective equipment in case of accidents.

3. Drivers Responsibilities: Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instead their helpers in the mechanical operation of the tractor and how to safely work with the tractor and

driver white furnigating.

4. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid of this product. Do not

reuse inem.

5. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If 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.

6. Confact With Mouth: Never siphon this product by mouth or use mouth to blow out

7. Heat Illness Avoidance: Use measures to avoid or minimize heat itness 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

irs shours:
Wash hands before eating, drinking, chewing gum, using lobacco, or using the toilef.
Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put

Remove country surrousing, a partial on clean clothing on clean clothing. Remove PPE surrouside of gloves before removing. As soon as possible, wash thoroughly and change into clean

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

STORAGE, SHIPMENT AND DISPOSAL

SHIPPING, STORAGE: Agricultural Chemical. Do not ship or slore with food, feeds,

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

por consummate rood, feed stuffs, drugs, or domestic water supplies.

DISPOSAL: Pesticide wasters are toxic. Improper disposal of excess pesticide and rinsates is a violation of Federal law. If these wasters cannot be disposed of by use according to tabel 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 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 officel oil mixture before storing. Do not use water, Dispose of finsate by applicable Federal, 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 Equid. Orient container such that ventilation of bung holes is not restricted. Allow containers to aerate 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: REFILLABLE CONTAINERS: Contact the company and/or the company; representative for directions on cleaning and handling refitable containers.

BULK OR MINIBULK 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.

.....

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. See "Storage, Shipment and Disposal" section. In case of spills, properly dispose of contaminated maloriais.

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 pormeable and ground water is near the surface, or in karst geology, could result in ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE: Do not use, pour, spil, or slore near heat or open flames. Do not cut or

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drill. Only producted handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 menufactures's written instructions for operation of the system and must read and understand for have explained to him in detail) the proper operation and maintenance of

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

1. All hoses, piping, and tanks used in connection with 1,3-dichloropropene and/or chloropicin shall be appropriate for use under the pressure and vacuum conditions to he accounted.

2. External sight gauges shall be equipped with valves so that pipes to sight gauge can be shul off in case of breakage and leakage.

3. The mechanical transfer system must be adoquate to make necessary measure-

ments of the positicide being used.

4. Shat-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of 1,3-dichbropropone and/or chloroprini product when the transfer is stopped and hose is removed or disconnected. A dry coupler that will maintaile pesticide leakage must be installed at the disconnect point.

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

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 Use this product only in accordance with its labeling and with the Worker Protection of Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, deconlamination, notification, and emergency assistance, it also contains specific instructions and exceptions pertaining to the statements in this baceting about personal protective equipment, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). 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 72 hours after application. In addition, if larps are used for the application, non-handler entry is prohibited while tarps are being removed.

NOTHFICATION: Notify workers of the application by warning them orally and by posting furnigant warning signs at entrances to treated areas. The signs must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO," (2) "Area under turnigation, DO NOT ENTER/NO ENTRE." (3) the date and time of furnigation, (4) 13-Dichloropropene and Chloropicini furnigants in use, and (5) name, address, and telephone number of the applicator. Post the furnigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, siza, and timing of posting and removal.

PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD: PPE for entry that is permitted by this labeling."

is permitted by this labeling is fisted in the "Hazards to Humans and Domestic tals" section of this labeling."

WARRANTY DISCLAIMER

NOTICE: Seller warrants that this product conforms to the chemical description on the label and is reasonably it 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 this product contrary to label instructions, or under abnormal conditions, or conditions not reasonally foreseeable to seler, and buyer assumes the risk of any such use.

INHERENT RISKS OF USE: It is impossible to eliminate all risks associated with use INHERENT RISKS OF USE: It is impossible to eliminate all ricks associated with use of this product. Corp highly, lack of portornance, or other unintended consequences may result because of such factors as use of the product contrary to labet and labet booklet instructions (including conditions noted on the labet and labet booklet, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tomadoes, hurricanes), presence of other materials, the manner of application, 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 LIMITATION OF REMEDIES: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, shird fability, 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 lable for losses or damages resulting from handling or see of this product unless the company is promptly notified of such loss or damages in writing. In no case shall be company be liable for consequential or incidental damages or losses. The forms of the Warranty Disclaimer above and this Limitation of Romedies cannot be varied by any written or verbal statement or agreements. No employee or sales agent of the company or the saffer is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Romedies in any manner.

CA April, 1994

GENERAL INFORMATION

This product is a multi-purpose liquid furnigant for preplant treatment of soil to control nematodes, symphylans, wireworms and certain soil borne diseases in

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 cannol be expected to aradicate entire populations. Therefore, post-treatment sampling is recommended to determine the need for additional pest

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

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 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 Imigation water, transplants, seed pieces, or equipment that could carry soil bome 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.

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 metals.

EQUIPMENT CLEAN-UP:

Because 1,3-dichloropropene is comosive 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. Dispose of rinsale by incorporation into field just treated or by other approved means. Never introduce rinsale or unused product into surface or underground water

CHEMIGATION:

Do not apply 1,3-dichloropropene through any type of imigation system.

FERTILITY INTERACTIONS:

FEMILITY INTERACTIONS: Furnigation may lemporarily raise the level of ammonia nitrogen and soluble sails in the soil. This is most likely to occur when heavy rates of fertilizer and furnigant 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, com, radishes, cole crops, legumes (beans), lettuce, onlons, and sugar beets, fertilize as indicated by soil tests made after furnigation.

To avoid ammonia injury or nitrate starvation (or both) to crops grown on high organic soits, do not use fertilizers containing ammonlum 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 sails 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 fumigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as circus seedlings. Comus sp., Crategous sp., spruce, and vegetable crops such as cauliflower have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer (foliar applied) is recommended where experience indicates a deficiency may occur.

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 furnigant 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 performance:

SOIL CONDITIONS: Soil temperature at the depth of application must be SOIL CONDITIONS: Soil temperature at the depth of application must 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 planning, late summer or early fall treatment is recommended. Soil moisture throughout the desired treatment zone should be at or near the permanent willing point to allow optimum dispersion of the furnigant, which moves as a gas through the soil air spaces. The permanent willing 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 retarded 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 guide 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 imigation should immediately precede subsciling or furnigation; however, when surface soil moisture conditions are not likely to provide an adequate seal against furnigant loss, a very light sprinkler imigation to wet the top 1 to 2 inches of soil may be useful.

SOIL PREPARATION: The soil should be free of clods. Large clods can prevent effective soil sealing and reduce effectiveness of this product. Plant prevent effective soil sealing 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 fumigation. Little or no crop residue should be present on the soil surface. Crop residue that is present should lie flat to permit the soil to be sealed effectively. Compacted soil layers within the desired treatment zone should be fractured before or during application of the fumigant. Deviation from the above conditions may result in unsatisfactory continue.

PLACEMENT OF FUMIGANT: This product may be applied as either a broadcast (overall) or row 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 furnigating soil to be planted to deep-rooted plants, such as perennial fruit and nut crops, or to control deeply distributed pests.

APPLICATION METHODS AND EQUIPMENT

BROADCAST APPLICATION: Use chisel (shank), Noble (sweep) plow or BROADCAST APPLICATION: Use chisel (shank), Noble (sweep) plow or plow-sole application equipment. For best results when using chisel equipment, use ripper-type, forward-swept shanks. Noble 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

The fungant outlet spacing varies with the type of application equipment used. With chisel 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 plow-sole equipment a 12-inch outlet spacing is recommended. Do not exceed an outlet spacing of 1212 inches. With plow to the proper development uses an outlet spacing of 9.12 18 inches, With Nobie (sweep) plow equipment use an outlet spacing of 9-12

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 roop 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 per plant row are used, space the chisels (temigant 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 funigant applied per 1000 feet of plant row should remain the same. with certain deeper root eet of paint the should relate the said.

With certain deeper rooted crops such as potaloes 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 per acre exceed the gallons per acre rates for broadcast treatment.

APPLICATION METHODS AND EQUIPMENT (Continued):

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

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

For Broadcast Treatment (flat fumigation), sealing 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 fumigant. A tandem disc or similar equipment may be used for this purpose. To maximize sealing, steps should also be taken to compact the soil surface to further retard the rate of fumigant loss by following with a ring roller, cultipacker or roller in combination with tillage equipment. Compaction of the soil surface alone may give the appearance of adequate sealing 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 soll/air interface. The closest soll/air interface could be the furnow for multiple knife applications or the top of the bed for single knife applications. Row treatments into preformed beds should be sealed by disrupting the chisel trace using press sealers, ring rollers or by reforming the beds and following with such equipment.

Sealing can also be improved by applying non-perforated plastic film, such as polyethylene, over the entire area or in strips. Use of a film to seal the soil surface does not eliminate 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 furnigant (see Placement of Furnigant section) and to obtain adequate sealing. Prior tillage should be adequate to eliminate clods 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 fumigant. A longer undisturbed interval is required if the soil becomes cold or wet, and for deep-rooted tree, shrub and vine planting sites.

After the fumigation interval, to prevent phytotoxicity, allow the fumigant to dissipate completely before planting the crop. Under optimum soit conditions for dissipation, 1 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 fumigant application. Use a knife-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 bloassay 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 fumigation.

APPROVED USES

TRI-FORM 40/60 is a preplant soil fumigant for control of soil-borne pests such as woreworms and nematodes, and diseases caused by certain species of Rhizoctonia, Pythium, Fusarium, Phytophthora, and Verticillium. TRI-FORM 40/60 is to be used in soil to be planted to the crops listed below.

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 Heds Radishes	Over-all (Broadcast)	Hineral Huck 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.

2. 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.



DEC 16 1994

TOM DUAFALA TRICAL, INC. P.O. BOX 1327 HOLLISTER, CA. 95024

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject: Label Amendment Submission of 6/20/94 in Response to PR Notice 93-7 EPA Reg. No. 11220-15
TRI-FORM 40/60

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling AND
- WITHIN one year from date of this acceptance.



Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Tin Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

Tom Duafala Ph.D. Trical

Comments for: EPA REG. NO. 11220-15, 20,21 TRI-FORM 40/60, TRI-FORM 15, TRI-FORM 30

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

In section 1 under PERSONAL PROTECTIVE EQUIPMENT delete "Application or soil-sealing outside an enclosed cab" Add the Personal Protective Equipment section for "Applicators Outside an Enclosed Cab" on page 5 of 11 of PR Notice 93-7 Supplement 4-E.

In section 1 nder PERSONAL PROTECTIVE EQUIPMENT change "Applicators and other handlers performing direct contact tasks must wear" to "Handlers performing direct contact tasks must wear:"

In section 1 under PERSONAL PROTECTIVE EQUIPMENT change "Any other handling tasks not otherwise listed in (2),(3), or (4) below" to "Any other handling tasks not otherwise listed in (2),(3),(4) or (5) below"

Add the following to the end of the PPE section for "Handlers Exposed to High Concentrations":

NOTE: In-tank cleaning of bulk tanks shall be performed only by persons who have been specifically trained for this activity. refer to OHSA 29 CFR 1910.146 and the Telone User's Guide, section on storage tanks.

ADD "EVAL" after barrier laminate in the chemical-resistant glove statements.

RESTRICTED USE PESTICIDE

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

TRI-FORM 40/60

A LIQUID SOIL FUMIGANT

FOR PREPLANT TREATMENT OF CROP LANDS TO CONTROL PLANT PARASITIC NEMATODES AND CERTAIN OTHER SOIL PESTS. NOT FOR USE IN GREENHOUSES OR OTHER ENCLOSED AREAS.

ACTIVE INGREDIENTS:

1,3-Dichloropropene 37.6%
Chloropicrin 59.4%
INERT INGREDIENTS: 3.0%
TOTAL 100.0%

Contains 4.51 pounds of 1,3-Dichloropropone and 7.13 pounds of chloropicrin per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

POISOR

Peligro: 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 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 towel or dry soil, then proceed at once to a locatior, 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, endotraches and/or esophageal control is suggested. Danger from lung spiration must be weighed against toxicity when considering emptying the stomach.

See Side Panel For Additional Precautionary Statements.

TRJCAL

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

NET CONTENTS LBS.

ACCEPTED
with COMMENTS
In EPA Letter Dated

DEC 16 1994

Under the Federal Inserticida, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1/270-/5____

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS: DANGER

HAZARDOUS LIQUID AND VAPOR

DO NOT SWALLOW ANY OF THIS PRODUCT, MAY BE FATAL IF

SWALLOWED.
DO NOT GET IN EYES, CAUSES SEVERE EYE INJURY.

SWALLOWED.

DO MOT GET IN EYES. CAUSES SEVERE EYE INJURY.

DO MOT GET ON SKIN. MAY BE FATAL IF ABSORBED THROUGH THE

SKIN. CAUSES SKIN BURNS, MAY CAUSE ALLERGIC SKIN REACTION.

DO NOT BREATHE VAPOR, MAY BE FATAL IF INHALED. MAY CAUSE

LUNG, LIVER, AND KIDNEY DAMAGE AND RESPIRATORY SYSTEM

IRRITATION UPON PROLONGED CONTACT.

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 DRECTIONS FOR USE,

PRECAUTIONARY STATEMENTS, AND BY WEARING THE PERSONAL.

PROTECTIVE EQUIPMENT SPECIFIED IN THIS LABELING,

THIS FUMICANT HAS THE CAPACITY TO CAUSE MARKED IRRITATION

TO THE UPPER RESPIRATORY TRACT. A STRONG LACHRYMATOR

(TEAR-PRODUCING EYE IRRITANT), LOW CONCENTRATIONS ARE CAP
ASLE OF CAUSING PAINFUL EYE IRRITATION. THE EFFECT MAY BE SO

POWERFUL THAT A PERSON MAY BECOME TEMPORARILY BLINDED

AND PANK-STRICKEN. THAT, IN TURN, MAY LEAD TO ACCIDENTS.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chloropicrin is 0.1 ppm (0.7 mg/M³). The air concentration level is measured by a direct reading detection device, such as a Matheson-Kilagawa, Draeger, or Sensidyne,

PERSONAL PROTECTIVE EQUIPMENT (PPE)

CHOUNAL PROTECTIVE EQUIPMENT (PPE)
Chemical-Resistant Materials: Some materials that are chemical-resistant to this product are fisted below. If you want more options, follow the instructions for category is on an EPA chemical resistance category selection chart. PPE constructed of Saranex, reoprene, and chlorinated polyethylene provide short-term contact or aplash protection against Equid of this product. Longer-term protection is provided by PPE constructed of Yaon, Tellon, and EVAL barrier laminates (for example, Responder suits manufactured by Life-guard or Silvers hield gloves manufactured by North). Leather, canvas, or cotton materials ofter no protection from this product and must not be worn when contact with this product is possible. this product is possible.

(1) Handlers Performing Direct-Contact Tasks: Direct-contact tasks are tasks per-formed outdoors or in a well-ventilated area. They include: a equipment calibration or adjustment

- equipment cleanup and repair
 product sampling
 application or soil-sealing outside an enclosed cab
 any activity less than 6 feet from an unshielded pressurized hose containing this product. removal of larp or plastic film
- msale disposal
- fumioant transfe
- cleanup of small spills
- ceanup or small spect preparing containers for aeration any other handling lask not otherwise fisted in (2), (3), or (4) below opticators and other handlers performing direct-contact tasks must wear:

 Coverafe over short-sleeved shirt and short pants,
- Chemical-resistant gloves, such as berrier taminale or viton,
 Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposure.
- Chemical-resistant apro
- ChemicAFressitant apron,
 FuB-face Respirator with either an organic-vapor- emoving cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-13C), or a caniste, approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of the libert.

(2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must

- Shoes and socks,

 Plus, if odor or aritation from this product can be detected inside the enclosed cab or if the air concentration tevel of chloropicrin exceeds 0.1 ppm inside the enclosed cab, handlers in the cab must, wear a full-face respirator with either an organic-vapor-removing cartridge with a preface approved for positicides (MSHAMIOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of the labet.

 In addition, the PPE specified in (1) for desct-contact activities must be immediately available in the enclosed cap and must be worn if the handler haves the enclosed cab for perform any direct-contact activity. The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides 40 CFR 170 240(d)(5).

handler lasks may be performed in the freeted area within 72 hours after the application is complete; (3) Handlers In Treated Area Within 72 Hours After Application: Only the follow

- Assessing/acjusting the soil seal

 Assessing post control application technique, or application efficiency
 Sampling as or soil for the product
 All other tusks are prohibited until the 72 -hour period, has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the ed area within 72 hours after application must wear

- Coverafe.
- Chemical resistant gloves such as barrier las inate or vilon.

- Plus, if odor or vitation from this product, can be detected or if the air concentration Frus, a copy or priarion from this product can be made the activation in the level of chloroperin exceeds 0,1 ppm, handlers must was a full face respiration with either an organic-vapor removing cartridge with a prefiler approved for pesticides (MSHARNIOSH approval mumber prefix TC 23C), or a canalier approved for pesticides (MSHARNIOSH approval number prefix TC 14C). See further respirator requirements to the "User Safety Requirements" section of the label.

See Requirements Continued In Third Column

Requirements, Continued;

(4) Handlers Exposed to High Concentrations: Handlers exposed to high sirborne concentrations of this product, such as cleanup following large spills, in-tank cleaning of bulk tanks, and exposure to this product in poorly ventilated areas, must wear:

- Chemical-resistant sub
- Chemical-resistant gloves, such as barrier laminate or viton,

- Chemical-resistant footwear plus socks,
 Chemical-resistant headgeer,
 Supplied-air respirator with MSHANIOSH approval number prefix TC-19C or self-contained breathing apparatus (SCBA) with MSHANIOSH approval number prefix TC-13F, Sae further respirator requirements is the "User Safety Requirements" section of the tabel.

USER SAFETY REQUIREMENTS

I. Respirator Requirements: When a respirator is required for use with this product, the following chieria must be met: (a), Full-face respirators must be worn. (b). Cartridges or canisters must be replaced daily or when odor or trization from this product to ones apparent, whichever is sooner. (c). Respirators must be fil-tested and fil-checked utring a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (d). Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (a), Respirator users must be assumined by a qualified medical practitioner to ensure physical ability to

safely wear the style of respirator to be worn.

2. Never Furnigate alone: It is imperative to always have an essistant and proper protective equipment in case of accidents.

protective equipment in case of accidents.

3. Drivers Responsibilities: Drivers of application equipment must advise other rkers of all precautions and procedures. In addition, drivers must instruct their helpers the mechanical operation of the tractor and how to safely work with the tractor and driver while furnicating.

Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid of this product. Do not

5. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If 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, 6. Contact With Moulli: Never siphon the product by mouth or use mouth to blow out

clogged lines, nozzles, etc. 7. Haat Illness Avoidance: Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, tans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

USER SAFETY RECOMMENDATIONS

- Wash hands before eating, drinking, chewing gum, using lobacco, or using the tolet, Remove cluthing immediately if pesticide gets inside. Then wash thoroughly and put
- Remove Closing annealing the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean

EMERGENCY: In case of an emergency endangaring health or the environmental file product, call the 24 Hour Emergency Phone Number (800) 424-9300.

STORAGE, SHIPMENT AND DISPOSAL

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

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

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 corrosive under certain conditions, flush all application acquirment with field 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 muture before storing. 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 container emplined during application METAL CONTAINER DISPOSALE to dispose or container ampliant many application operation, termove burgs, invert container in the field just treated and ensure that the container is free of liquid. Orient containers such that ventilation of burg holes is not restricted. Allow containers is serate for at least 14 days. Replace burgs prior to transport. Aller seration, 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 handing refiliable containers. REFILLABLE CONTAINERS:

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

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wasters. See "Storage, Shipment and Disposal" section. In case of spals, properly disposal 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 geology, could result in ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMIBLE: D. Silvse, pour, spill, or store near heat or open flames. Do not cut or

DIRECTIONS FOR USE

It is a violation of Federal tow to use this product in a manner inconsistent with its labeling. Do not apoly It is product in a way that will contact wireless or other persons, either directly or through drift. Only protected handlers may be in the contact with a policy application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 evaluable 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

WITH ALL BULK AND MINIBULK CONTAINERS: 1,3-dichloro THE TIME SUCK AND MINIBULK CONTAINERS: 1,3-dichloropropers and 1,3-dichloropropens mixed with chloropicinin must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent handlers in other persons from coming in contact with figuid 1,3-dichloroproperse, and/or chloropicinin, 1. All hoses, piping, and tanks used in connection with 1,3-dichloropropens and/or chloropicins shall be appropriate for use under the pressure and vacuum conditions to be appropriated.

chloropters and be appropriate for the union 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 and leakage.

3. The mechanical transfer system must be adequate to make necessary measurements of the positicise being used.

4. Shut-off devices must be installed on the exit end of all house and at all disconnect.

4. Shul-off devices must be instated on the ext end of all hoses and at all deconnections proved leakage of 1,3-dichloropropers, and/or chloropicini product when the transfer is slopped and hose is removed or disconnected. A dry ccupler that will minimize pesticide leakage must be installed at the disconnect point.
5. The pressure in hoses used to move 1,3-dichloropropene and/or chloropicin beyond a pump must not exceed the manufacturer's maximum pressure specification.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Direction for Use section for information about this standard.

WARRANTY DISCLAIMER

NOTICE: Seller warrants that this product conforms to the chemical description on the tabel and is reasonably fit for the purposes stated on the tabet 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 this product contrary to latel instructions, or under abnormal conditions, or under conditions not reasonably fores enable to seder, and buyer assumes the risk of any such use.

INHERENT RISKS OF USE: It is impossible to eliminate all risks associated with use 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 and label booklet instructions (including conditions noted on the label and label booklet, such as unfavorable imperatures, soit conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, all of which are beyond the control of the company or the select. All such risks shall be assumed by Buyer.

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 fieldly, or other legal ineories), 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 trised. The company shall not be lable for losses of damages resulting from handling of this of this product unless the company is promptly notified of such loss or damage in writing. In case shall the company be fable for consequential or incidental damages or losses. The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be veried by any writine or verbal statement or agreements. No employee or sales agent of the company or the selfer is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Ramedies in

CA April, 1994



8 9 13

RESTRICTED USE PESTICIDE

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

LABEL BOOKLET

DIRECTIONS FOR USE INCLUDING STORAGE, SHIPMENT AND DISPOSAL; PRECAUTIONARY INFORMATION, INCLUDING REQUIREMENTS FOR PERSONAL PROTECTIVE EQUIPMENT; ENGINEERING CONTROL AND REQUIREMENTS; AND AGRICULTURAL USE REQUIREMENTS.

TRI-FORM 40/60

A LIQUID SOIL FUMIGANT

FOR PREPLANT TREATMENT OF CROP LANDS

TO CONTROL PLANT PARASITIC NEMATODES

AND CERTAIN OTHER SOIL PESTS.

NOT FOR USE IN GREENHOUSES OR OTHER ENCLOSED AREAS.

ACTIVE INGREDIENTS:

1,3-Dichloropropene 37.6% Chloropicrin 59.4% INERT INGREDIENTS: 3.0% TOTAL 100.0%

Contains 4.51 pounds of 1,3-Dichloropropene and 7.13 pounds of chloropicrin per gallon.

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

NET CONTENTS LBS.

KEEP OUT OF REACH OF CHILDREN

DANGER



PELIGRO

Peligro: 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 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 violthing and shoes. Call a physician. If water is not immediately chemical from skin with adsorbent material has towel or dry soil, then proceed at once to a location where cater 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.

(F 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 toxicity when considering emptying the stornach.

See Side Panel For Additional Precautionary Statements,

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS: DANGER

HAZARDOUS LIQUID AND VAPOR. DO NOT SWALLOW ANY OF THIS PRODUCT, MAY BE FATAL IF

SWALLOWED.

DO NOT GET IN EYES, CAUSES SEVERE EYE INJURY,
DO NOT GET ON SKIN, MAY BE FATAL IF ABSORBED THROUGH THE
SKIN, CAUSES SKIN BURNS, MAY CAUSE ALLERGIC SKIN REACTION.
DO NOT BREATHE VAPOR, MAY BE FATAL IF INHALED. MAY CAUSE
LUNG, LIVER, AND KIDNEY DAMAGE AND RESPIRATORY SYSTEM
IRRITATION UPON PROLONGED CONTACT.

IRRITATION UPON PROLONGED CONTACT.
THE USE OF THIS PRODUCT MAY BE HAZARDOUS TO YOUR HEALTH.
THIS PRODUCT CONTAMS 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 FUMICANT HAS THE CAPACITY TO CAUSE MARKED BRITATION
TO THE UPPER RESPIRATORY TRACT. A STRONG LACHRYMATOR
(TEAR-PRODUCING EYE BRITANT), LOW CONCENTRATIONS ARE CAPABLE OF CAUSING PAINFUL EYE BRRITATION. THE EFFECT MAY BE SO
POWERFUL THAT A PERSON MAY BECOME TEMPORARILY BLINDED

AND PANIC-STRICKEN. THAT, IN TURN, MAY LEAD TO ACCIDENTS.

AIR CONCENTRATION LEVEL

The acceptable air concentration level for persons exposed to chicropicrin is 0.1 ppm (0.7 mg/M³). The air concentration level is measured by a direct reading detection device, such as a Matheson-Kitagawa, Draegar, or Sensidyne,

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Chemical-Resistant Materials: Some meterials that are chemical-resistant to the product are insted below. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart. PPE constructed of Saranex, recoperals, and chlorinated polyethylene provide short-term contact or splash production against liquid of this product. Longer-term protection is provided by PPE constructed of Vion, Taffon, and EVAL barrier laminates (for example, Responder subs manufactured by North). Leather, carvas, or cotton materials offer no protection from the product and must not be worn when contact with the more than the product and must not be worn when contact with the more than the product and must not be worn when contact with the more than the product and must not be worn when contact with the more than the product and must not be worn when contact with this product is possible.

- (1) Handlers Performing Direct-Contact Tasks: Direct-contact tasks are tasks performed outdoors or in a well-ventilated area. They include:
- equipment calibration or adjustment
- equipment cleanup and repair

- product sampling application or soil-sealing outside an enclosed ceb any activity less than 6 feet from an unshielded pressurized hose containing this product.
- removal of terp or plastic film
- rinsale disposal furnicani transfer
- nup of small spills
- preparing containers for seration

any other handing task not otherwise fieled in (2), (3), or (4) below Applicators and other handlers performing direct-contact tasks must wear:
 Coveralls over short-steeved shirt and short pants,

- Chemical resistant gloves, such as barrier leminate or vitors.
 Chemical resistant lootwear plus socks.
- Chemical-resistant headgear for overhead exposure,
- Chemical-resistant apror
- Full-face Respirator with either an organic-vapor-removing cartridge with a prefiter approved for pesticides (MSHANNOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHANNOSH approval number prefix TC-14G).
 See further respirator requirements in the "User Safety Requirements" section of the
- (2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must wear: - Coveralis,

- Coveralls,
 Shoes and socks,
 Plus, if udor or irritation from this product can be detected inside the enclosed cab or if the air concentration level of chloropicrin exceeds 0.1 ppm Inside the enclosed cab, handlers in the cab must wear a full-face respirator with either an organic-vapor-reroving cartridge with a prefiler approved for pesticides (MSHAN/DSH approval number prefix TC-13C), or a canister approved for pesticides (MSHAN/NOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of the label.
 In addition, the PPE specified in (1) for direct-contact activities must be immediately.
- the "User Safety Requirements" section of the label. In addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity. The enclosed cab must meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides-40 CFR 170.240(d)(5).
- (3) Handlers in Treated Area Wilhin 72 Hours After Application: Only the following handler lasks may be performed in the treated area within 72 hours after the application
- Assessing/adjusting the soil seel
- Assessing past control, application technique, or application efficacy

 Sampling arror soil for the product.
 Att other tasks are prohibited until the 72 -hour period, has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the treated area within 72 hours after application must wear.

- Chemical-resistant gloves such as barrier laminate or viton,
- Chemical resistant footwear and socie,
 Plus, if order or kintation from this product can be detected or if the air concentration reas, a once or smarton row time product can be detected or a the accondensation level of chloropicin exceeds 0.1 ppm, handlers must wear a full face respirator with eather an organic-vapor-removing cartridge with a prefiler approved for pesticides (MSFATROSH, approval number preful TC-23C), or a canalier approved for pesticides (MSHATROSH, approval number preful TC-14G). See further respirator requirements in the "User Salety Requirements" section of the label.

See Regulaments Continued in Third Column

Regulrements, Continued:

- (4) Handlers Exposed to High Concentrations: Handlers exposed to high arborne concentrations of this product, such as cleanup following large spills, in tank cleaning of bulk lanks, and exposure to this product in poorly ventilated areas, must wear;
 - emical-resistant sull,
 - Chemical-resistant gloves, such as barrier laminate or viton, Chemical-resistant footwear plus socks,
- Chemical resistent headgear,
- Supplied air respirator with MSHANIOSH enproval number prefix TC-19C or set-contained breathing apparatus (SCBA) with MSHANIOSH approval number prefix TC-13F. See further respirator requirements in the "User Safety Requirements" section of the lebel.

USER SAFETY REQUIREMENTS

- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met: (a). Full-face respirators must be worn. (b). Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner. (c). Respirators must be fill-tested and fill-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (d). Respirator users must be frained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134). (e). Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely
- wear he stammed by a quasic medical practioner of ensure physical about to salely wear the style of respirator to be worn.

 2. Never Furnigate atone, it is imperative to always have an assistant and proper protective rquipment in case of eccidents.

 3. Drivers Responsibilities; Drivers of application equipment must advise other workers of all precautions and procedures, in addition, drivers must instruct their helpers in the mechanical operation of the tractor and discussed for mistaline. driver while furnicating.
- orner wise impairing.

 4. Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with Equid of this product. Do not reuse them,
- Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/n Clean and waintain 17PE; power manuscrives a restrictions for cleaning maintaining PPE. If no such instructions for washables, use delergent and hot water, Keep and wash PPE separately from other laundry. Wash PPE after each day's use.
 Contact With Mouth: Never alphon this product by mouth or use mouth to blow out.
- clogged lines, nozzles, elc.
- 7. Heat Miness Avoidance; Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustmen to heat and respirator stress, fans for cooling, couling vests, frequent breaks to cool down, frequent risks of drinking water, and maintaining weight from day to day.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using lobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPC for mediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean. clothing.

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

STORAGE, SHIPMENT AND DISPOSAL

SHIPPING, STORAGE: Agricultural Chemical. Do not ship or store with food, feeda,

STORAGE: Slore in lightly-closed original container in a cool place away from the Do not allow contamination of seeds, plants, fertilizers, or other pasticide chemicals, Do not contaminate food, feed stuffs drops or described to the pasticide chemicals, Do not contaminate food, feed stuffs, drugs, or domestic water supplies.

DISPOSAL: Pesicide wastes are loxic, Improper disposal of uxcess 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. Because 1,3-dischloropopene is corrosive under certain conditions, flush all pplication equipment with fixel oil, herosene or a similar type of petroleum solvent immediately after use. Fif pumps and meters with new motor oil or a 50% motor official oil micture before storing. De not use water. Dispose of rinsate by applicable Federal, State and local regulations. Never introduce rinsate or unused product into surface or underground weller supplies.

METAL CONTAINER DISPOSAL: To dispose of container emptied during application operation, remove bungs, invert container in the fir'd just treated and ensure that the container is tree of Equid. Orient container such that ventilation of bung holes is not restricted. Allow containers to aerate 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 refiliable containers.

BILLK OR MINIBULK PRODUCT TRANSFERS: Dry breek or dry deconnect couplings are required for all product lensfers involving bulk containers for products containing 1,3-dichloropropone as of September 30, 1992

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. See "Storage, Shipment and Disposal" section. In case of spile, properly dispose of contaminated malariab.

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 kerst geology, could result in ground water contamination.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMARLE. Do not use, pour, spill, or slore near heat or open flames. Do not cut or

DIRECTIONS FOR USE

If is a violation of Federal law to use this product in a 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 pasticide regulation

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

WITH ALL BULK AND MINI-BULK CONTAINERS: 1,3-dichloropropene and 1,3-dichloropropene mixed with chloropicrin must be transferred through connecting hoses, pipes, and/or couplings sufficiently light to prevent handlers or other persons from coming in confact with flouid 1,3-dichloropropene, and/or chloropicrin.

1. All hoses, piping, and lanks used in connection with 1,3-dichloropropene and/or

chloropicrin shall be appropriate for use under the pressure and vacuum conditions to

2. External sight gauges shall be equipped with valves so that pipes to sight, gauge can be shut of in case of breakage and leakage.

3. The mechanical transfer system must be adequate to make necessary measure-

ments of the pesticide being used.

ments of the persisted being used.

4. Shul-olf devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of 1,3-dichloropropene, and/or chloropicrin 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 1,3-dichloropropene, and/or chloropicrin.

beyond a pump must not exceed the manufacturer's maximum pressure specification.

AGRICULTURAL USE REQUIREMENTS

Use this produc, only in accordance with its labeling and with it's Worker Protection of Standard, 40 CFR 170. This Standard contains requirem his for the protection of Standard, 40 CPR 170. This Standard contains requirem his 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 perfaming to the statements in this labeling about personal protective equipment, restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Prote tion Standard (WPS), apply to uses of this product that are covered by the Worker Prote ton Standard (WPS). ENTRY RESTRUCTION: 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 tabeling—is PROHIBITED from the start of application, until 72 hours after application, lie addition, if large are used for the application, non-handler entry is prohibited white tarps are being removed.

application, non-handler entry is prohibited while tarps are being removed. NOTIFICATION: Notify workers of the application by warning them orally and by posting furnigent warning signs at entrances to treated areas. The signs must beer the stud and crossbones symbol and state: (1) "DANGER/PELIGRO," (2) "Area under furnigation, DO NOT ENTER/NO ENTRE," (3) the date and time of furnigation (4) 1,3-Dichloropropene and Chloropicrin furnigants in use, and (5) name, address, and telephone number of the applicator. Post the furnigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to local_n, legibility, size, and timing of posting and removal,
PPE FOR ENTRY DURING THE ENTRY-RESTRICTED PERIOD; PPE for entry that is permitted by this labeling is fisted in the "Hazards to Humans and Domestic Animals" section of this labeling.

WARRANTY DISCLAIMER

NOTICE: 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 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 this product contary to lated instructions, or under abnormal conditions, or under conditions not reasonally foreseeable to seller, and buyer assumes the risk of any auch use.

INHERENT RISKS OF USE: It is impossible to eliminate at 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 and label booklet instructions frincluding conditions noted on the label and label booklet, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, ternedoes, hurricanes), presence of other meterials, the manner of application, all of which are beyond the control of the company or the select. All such risks shall be assumed by Buyer, LIMITATION OF REMEDIES: The exclusive remedy for losses or demages resulting

LIMITATION OF REMEDIES: The exclusive rarriedy for losses or damages resulting from this product (including claims based on confract, 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 table for losses or damages resulting from handling or use of the product unless the company is promptly notified of such loss or damage in writing. Into case shall the company be faible for consequential or incidental damages or losses. The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any writing or verbal statement or agreements. No employee or sales agent of the company or the saler is authorized to vary or exceed the terms of the Warranty Disclaimer or this Ernikation of Remedies in any manner.



GENERAL INFORMATION

This proof—Is a muti-purpose figuid furnigant for preplant freatment of soil to control net utodes, symphylans, wireworms and certain soil borne diseases in cropland.

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 nemalodes, a successful funigation cannot be expected to eradicate entire populations. Therefore, post-treatment sampling is recommended to untermine the need for additional pest management practices.

Consult State Agricultural Experiment Station or Extension Service specialists for information on other practices ...th is 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 DICHLOROPROFENE:

Labeling for end use products containing 1,3-dichlo opropone that are prepared and sold by formulators must comply with all precautionary statements, use procautions, 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 pests that are present in the soil treatment zone at time of furnigation. It will not control pests that are introduced into soil after furnigation. To avoid reinfestation of treated soil do not use Imigation water, transplants, seed pieces, or equipment that could carry soil borne pests from infested tand. 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.

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, 1933.

Do not use containers, purely s or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions 1,3-dichloropropers may be soverely corrosive to such metals.

EQUIPMENT CLEAN-UP:

Beccuse 1,3-3-chloropropens is corrosive under certain conditions, flush all application ecupreent with foul oil, kerosene or a similar type of petroleum solvent immediately after use. Fill pumps and meters with new motor oil or a 50% motor oxifuet oil oil or use before storing. Do not use water, Dispose of nin total by incorporation into field just treated or by other approved means. Never introduce rinsate counsed product into surface or underground water sumifies.

CHEMIGATION:

Do not apply 1,3-dichloropropene through any type of inigation system

FERTILITY INTERACTIONS:

Furnigation may temporarily raise the level of ammontal nitrogen and soluble salts in the soil. This is most likely to occur when heavy rales of feruitizer and furnigant are applied to soils that are either cold, wet, soid, or high in organic matter. To avoid injury to certain crops including red beets, cerrots, corn, radishes, cole crops, legumes (bean-1), lettuce, onions, and sugar beets, fertifice as indicated by soil tests made after furnigation.

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 fertifizers containing nitrates until after the crop is well established and the soil temperature is above 35 degrees F.

In mineral soils, do not apply more than 2/3 of the nitrogen requirements from ferifizers containing ammonium saits 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 stale nursery regulations, liming of highly acid soils before furnigation may stimulate nitrication and reduce the possibility of ammonia toxicity. Certain nursery crops such as citrus seedings, Carnus sp., Carategus sp., spece, and vegetable crops such as cauliflower have shown evidence of phosphorus delicioncy following furnigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer (foliar applied) is recomme view where experience indicates a deficiency may occur.

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 fundigant 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 performance:

SOIL CONDITIONS: Soil temperatum at the depth of application must 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 reatmer: is recommended. Soil moisture throughout the desired treatment zone should be at or near the permanent witting point to allow optimum dispersion of the furnigant, which moves as a gas through the soil air spaces. The permanent witting 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 related 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 guide 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 selvice specialist or pest control advisor (agiconsultant) for assistance.

In general, no irrigation should immediately precede subsoiling or furnigation; however, when surface soil moisture conditions are not tikely to provide an adequate seal against furnigant loss, a very light sprinkler irrigation to wet the top 1 to 2 inches of soil may be useful.

SOIL PREPARATION: The soil should be free of clorks. Large clods can prevent effective soil sealing 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 first to permit the soil to be sealed effectively. Compacted soil tayers within the desired treatment zone should be fractured before or during application of the furnigant. Deviation from the above conditions may result in unsatisfactory

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 perennial fluit and nut crops, or to control deeply distributed posts.

APPLICATION METHODS AND EQUIPMENT

BROADCAST APPLICATION: Use chisel (shank), Noble (sweep) plow or plow-sole application equipment. For best results when using chisel equipment, use roper-type, forward-swept shanks. Noble 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 chisel 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-shaltering capability of the chisels. The maximum outlet spacing should not exceed 24 inches. With play-sole equipment a 12-inch outlet spacing is recommended. Do not exceed an outlet spacing of 18 inches. With Noble (sweep) play equipment 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 hand 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 per plant row are used, space the chisels (furnigant outlets) 6 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 Nant row should remain the same. With certain 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 per acre exceed the gallons per acre rates for broadcast treatment.

APPLICATION METHODS AND EQUIPMENT (Continued):

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

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

For Broadcast Treatment (flat sumigation), sealing can be accomplished with equipment that will uniformly mix the soit to a depth of 3 to 4 inches to effectively eliminate chisel or plow traces which can allow direct escape of the furnigant. A tandem disc or similar equipment may be used for this purpose. To maximize sealing, steps should also be taken to compact the soil surface to further retard the rate of furnigant loss by following with a ring roter, cultipacker or roter in combination with tilings equipment. Compaction of the soil surface alone may give the appearance of adequate sealing without effectively disrupting chisel or plow traces.

For Rew Treatment, forming the bods at the time of application should be accomplished in a manner that places the furnigant at least 12 inches from the necrest soil/air interface. The closest soil/air interface could be the furrow for multiple knife applications or the top of the bod for single knife applications or the top of the bod for single knife applications. Sow treatments into preformed bods should be sealed by disrupting the chisel trace using press sealers, ring rollers or by reforming the bods and following with such equipment.

Scaling can also be improved by applying non-perforated plastic film, such as polyethylene, over the entire area or in strips. Use of a film to seal the soil surface does not eliminate the need to eliminate chisel traces prior to application of the plastic film unless simultaneous application and tarp laying 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 soction) are important to ensure proper placement of furnigant (see Placement of Furnigant section) and to obtain adequate sealing. Prior titlage should be adequate to eliminate clods 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 furniment. A longer undisturbed interval is required if the soil becomes column in and for deep-rooted tree, strub and vine clanking sites.

After the funigation interval, to prevent phytotoxicity, allow the funigant to dissipate completely before planning the crop. Under optimizing 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 funigant application. Use a kinde-like chisel without luming the soil to reduce the possibility of recontaminating the treated soil. Dissipation is usually complete when the color of the product is no longer evident at the application depth. 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 the odor of the product is present within the zone of fumigation.

APPROVED USES

TRI-FORM 40/60 is a preplant soil furnigant for control of soil-borne pests such as woreworms and nematodes, and diseases caused by certain species of Rhizoctonia, Pythium, Fusarium, Phytophthora, and Verticillium. TRI-FORM 40/60 is to be used in soil to be planted to the crops listed below.

APPLICATION RATES TRI-FORM 40/60

Crop	Type of Treatment	Soil Type	Gallons Per Acrel
Brussel Sprouts Cucumbers Egyplant Floral Croys Malons Nursery Crops	Over-all (Broadcast)	Mineral Muck or peat	21.9 to 36.3 58.2 to 87.3
Oniona	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
Strauberries	Over-all (Broadcast)	Hineral	58.2 to \$7.3
Sucet Potatoes	Over-all (Broadcast)		51.0 to 58.4
Tomatoes	Over-all (9roadcast)	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.

 2. 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.