NOV 25 1996

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

Dear Dr. Duafala:

Subject: Request to Amend Telone Registrations in Response to

Telone Negotiations Tri-cal Trilone II

EPA Registration No. 11220-1/

Your Submission Dated September 18, 1996

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

- 1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. In the Engineering Control Requirements section the reference to "Telone Soil Fumigants A Guide to Application" makes this part of the labeling for the product and it must be submitted for Agency review and approval.
 - b. When printing the label assure that on the front panel POISON is the color red on a background of distinctly contrasting color.
 - c. On the Container Label, the User Safety Recommendations, Environmental Hazards, and Physical and Chemical Hazards sections must appear in the Precautionary Statements section. According to 40 CFR 156.10(i)(1)(ii) only directions for use may appear on printed or graphic matter that accompanies the pesticide.
 - d. In the Agricultural Use Requirements section change 72 hours to 5 days.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records. The amended labeling supersedes all previously accepted labeling.

Sincerely yours,

Philip V. Errico Acting Product Manager (22) Fungicide-Herbicide Branch Registration Division (7505C)

Enclosure

Lisa Nisenson cc: Special Review Branch Special Review and Reregistration Branch (7508W)

RESTRICTED USE PESTICIDE

DUE TO HIGH ACUTE INHALATION TOXICITY AND CARCINOGENICITY

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

TRI-CAL TRILONE II

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

ACTIVE INGREDIENT:

1,3-Dichloropropene **INERT INGREDIENTS:**

94.0% 6.0%

100.0%

One gallon of Trilone II weighs 10.1 lbs at 70 degrees F.

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

Peligro: Si usted no entiende la atiqueta, 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 cause 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.

ACCEPTED with COMMENTS In EPA Letter Bated

NOV 25 1996

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 220-

Haliston on many distribution and an analysis and an analysis

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. 11220-01

NET CONTENTS LBS.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

AVISO WARNING

HAZARDOUS LIQUID AND VAPOR.

- not swallow any of this product. May be fatal if ■ Do swallowed.
- m Do not get in eyes. Causes substantial but temporary aye injury
- Do not get on skin. May be fatal if absorbed through the skin. Causes skin initation and, if confined, 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 initation 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.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Chemical-Resistant Materials: Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category H product are issted below. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart. PPE constructed of Saranex, reoprese, and chiorinated polyethylene provide short-term contact or splash protection against fiquid in this product. Longer-term protection is provided by PPE constructed of Vion, Teffon, and EVAL barrier laminates (for example, Responder suits manufactured by Life-guard or Silvershield gloves manufactured by North). Where chemical-resistant materials are required, feather, canvas, or cotton materials offer no protection from this product and must not be worn when contact with this product is possible. Coverals must be loose-fitting and constructed of woven fabrics (e.g. light knot cotton or cotton/polyester), non-woven fabrics (e.g. Tyvek or Sontara), or fabrics containing microporous Fefon.

(1) Handfers Perforating Direct-Contact Tasks: Direct-contact tasks are tasks per-

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

- equipment cleanup and repair product sampling
- any activity less than 6 feet from an unshielded pressurized hose containing this
- removal of tarp or plastic film
- rinsate disposal fumigant transfer
- clean-up of small spills
- preparing containers for aeration

preparing containers for seration

any other handling task not otherwise Isled in (2), (3), (4), or (5) below.

Handlers performing direct-contact tasks must wear: (a) Coveralls over short-sleeved shirt and short pants. (b) Chemical-resistant gloves, such as parrier laminate (EVAL) or vition. (c) Chemical-resistant footwear plus socks. (d) Face-seating goggles, unless fail-face respirator is worn. (e) Chemical-resistant headges for overhead exposure.

(f) Chemical-resistant apron. (g) A half-face respirator with either an organic-vapor-removing cartridge with a prediet approved for pesticides (MSHANIOSH approval number prefix TC-23C), or canister approved for pesticides (MSHANIOSH approval number prefix TC-23C), or canister approved for pesticides (MSHANIOSH approval number prefix TC-23C), see further respirator requirements in the "User Safety Requirements" section of this label.

(2) Handlers in Enclosed Cabs: Applicators and other handlers in applicant only approval of the parties of application of the product of the produ

Requirements' section of this labet.

(2) Handfers in Enclosed Caba: Applicators and other handfers in enclosed cabs must wear: (a) Coveralis. (b) Shoes and socks. (c) A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides 9MSHANNOSH approval number prefix TC-23C) or canister approved for pesticides 9MSHANNOSH approval number prefix TC-14G). A respirator is not required if the occupants are within an enclosed cab that is in conformance with one of the following: (1). ASAE Standard SS5S sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements is tend in the Worker Protection Standard (WPS) for apprictuating posticides—40 CFR 170.240(d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 gram3 activated charcoal. The filter must be changed after no more than 50 hours of application on this tabet. (c) in addition, the PPE specified in (1) for direct-contact activities must be immediately available in the enclosed cab to perform any direct-contact activity.

immediately available in the enclosed cab and must be worn if the hander leaves the enclosed cab to perform any direct-contact activity.

(3) Application Outside an Enclosed Cab: Applicators applying this soil funigant (or sealing the soil following application of this product) who are not inside an enclosed cab that meets requirements specified above must wear: (a) Coverals over short-shewed shirt and short pants. (b) Chemical-resistant gloves, such as benire laminate (EVAL) or vilon, (c) Chemical-resistant footweep plus socks. (d) Face-sealing goggles, unless full-face respirator is worn. (e) Chemical-resistant headgear for overthead exposure. (e) A respirator with either an organic-wapor-removing cartridge with a prefilter approved for posticides (MSHANNIOSH approval number prefix TC-23C) or canister approved for posticides (MSHANNIOSH approval number prefix TC-14G). Face-sealing goggles must be worn unless full-face respirator is worn. See further respirator requirements in the Tuser Safety Requirements* section on this abole. this label

this book.

(4) Handlers In Treated Area Wilhin 5 days After Application: Only the following handler tasks may be performed in the treated area within 5 days after the application is

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

WINTERSTEEL STEEL STEEL

Sampling air or soil for this product. All other tasks are prohibited until the 5 day period has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the treated area within 5 days after application must wear; (a) Coverais, (b) Chemical resistant gloves, such as barrier taminate (EVAL) or viton, (c) Chemical resistant; footwear and socks. (d) A respirator with either an organic-vapor-removing cartridge with a prefixer approved for pesticides (MSHANNISH approval number prefix TC 23C), or canitater approved for posticides (MSHANNISH approval number prefix TC IC 14G). See further respirator requirements in the "User Safety Requirements" section.

See Requirements Continued in Third Column

Hosery Hours

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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 follow instructions on proper operation of the system found in the Telone Soil Fumigants - A Guide to Application' manual. Contact your distributor for more information or these materials.

END-ROW SPILLAGE CONTROL: The dispensing system must shut of

the feed stream when chisels are raised out of the ground. Do not stop or park near any area where dribble from chisel tips has faller. The applicator must follow instructions on proper operation and maintenance of the system found in the "Telone Soil Furnigants - A Guide to Application" manual. Contact your distributor for more information or these

- materials.

 A flow shutoff device must be placed as close as is technically feasible to the fluid discharge point. This can be a ball, poppet, or disphragm check valve, or full flow shutoff device such as an electric or pneumatically actuated valve.

 Check valves must be replaced immediately if continuous drip occurs.
- Place check valves above the orifice.
- Isolate the check valve from upstream pressure by installing a main line shut off or bypass valve prior to the manifold.
- Do not exceed 1/4 inch diameter lubing.

 Do not use any method of end-row spilage control other than that stated on this labet.
- Lo not use any melnod or end-row spillage control other than that stated on this label.

 An alternative to shutloff devices is a purge system which clears the fine of all fuglic.

 Consult your product representative for purge system description. Do not use any method of end-row spillage control other than that stated on this label.

 WITH ALL BULK AND MINI-BULK CONTAINERS: 1,3-dichloropropene must be transferred through connecting hoses, pipes, and/or couplings.

sufficiently light to prevent workers or other persons from coming in contact with liquid

- 1.3-dichloropropone.

 1. All hosses, plying, and tanks used in connection with 1.3-dichloropropene shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.

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

 3. The mechanical transfer system must be adequate to make necessary measure-
- The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.
 Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of 1,3-dichloropropene product when the transfer is stopped and hose is removed or disconnected. A dry coupler that will minimize pesticide leakage must be installed at the disconnect point.
 The pressure in hoses used to move 1,3-dichloropropene beyond a pump must not exceed the manufacturer's maximum pressure specification.

DIRECTIONS FOR USE

It is a violation of Foderal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying. 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 `... ,<u>....</u> --

AGRICULTURAL USE REQUIREMENTS

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



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

WARRANTY DISCLAIMER

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

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

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LIMITATION OF REMEDIES: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at the manufacturer's election, one of the following: (1) Refund of purchase price path by buyer or user for product bought, or (2) Replacement of amount of product used. The manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless the manufacturer is promptly notified of such loss or damage in writing. In no case shall the manufacturer 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 writing or verbal statements or agreements. No employee or sales agent of the manufacturer or the soler is authorized to vary or exceed the terms of the Warranty Disclaimer or his Limitatio



RESTRICTED USE PESTICIDE

DUE TO HIGH ACUTE INHALATION TOXICITY AND CARCINOGENICITY

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

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

TRI-CAL TRILONE

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

ACTIVE INGREDIENT:

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P.O. Box 1327, Hollister, CA 95024

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NET CONTENTSLBS.

KEEP OUT OF REACH OF CHILDREN WARNING **AVISO**

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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 cause 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.

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

WARNING AVISO

HAZARDOUS LIQUID AND VAPOR.

- not swallow any of this product. May be fatal if Do swallowed.
- Do not get in eyes. Causes substantial but temporary eye injury.
- Do not get on skin. May be fatal if absorbed through the skin. Causes skin irritation and, if confined, 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 directions for use, precautionary statements, and by wearing the personal protective equipment specified in this labeling.

PERSONAL 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 H product are fisted below. If you want more options, follow the instructions for category or an EPA chemical resistance category selection chart. PPE constructed of Sarany, neoprene, and chlorinated polyethylene provide short-term contact or spissh protection against liquid in this product. Longer-term protection is provided by PPE constructed of Vition, Telfon, and EVAL barrier laminates (for example, Responder suis manufactured by Life-guard or Silvershield gloves manufactured by North). Where chemical-resistant materials are required, leather, canvas, or collon materials often oprotection from this product and must not be worn when contact with this product is possible. Coverals must be loose-filling and constructed of woven fabrics (e.g., light knot collon or cotton/polyester), non-woven fabrics (e.g. Tyvek or Sontara), or fabrics containing

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

a equipment calibration or adjustment

- equipment cleanup and repair
- any activity less then 6 feet from an unshielded pressurized hose containing this product
- removal of larp or plastic film
- rinsate disposal fumigant transfer

- clean-up of small spills preparing containers for aeration any other handling task not otherwise its led in (2), (3), (4), or (5) below.

any other handling lask not otherwise isled in (2), (3), (4), or (5) below. Handlers performing direct-contact tasks must wear: (a) Coveralls over short-sleeved shirt and short pants. (b) Chemical-resistant gloves, such as barrier laminate (EVAL) or viton. (c) Chemical-resistant footwear plus socks. (d) Face-sealing gogges, under the footwear plus socks. (d) Face-sealing gogges, unless full-face respirator is worn. (e) Chemical-resistant headgear for overhead exposure. (f) Chemical-resistant apron. (g) A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHANNOSH approval number prefix TC-202), or cansiter approved for pesticides (MSHANNOSH approval number prefix TC-14G). See further respirator requirements in the "User Safety Requirements" section of this label.
(2) Handlers in Enclosed Cabas: Applicators and other handlers in enclosed cabas must

(2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must wear: (a) Coveralls, (b) Shoes and socks. (c) A half-face respirator with either an organic-vapor-removing cartridge with a prefixer approved for pesticides SMSHANNOSH approval number prefix TC-23C) or canister approved for pesticides (MSHANNOSH approval number prefix TC-14G). A respirator is not required if the occupants are within an enclosed cab that is in conformance with one of the following: 1). ASAE Standard SS2S sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements isted in the Worker Protection Standard (MPS) for agricultural pesticides—40 CFR 170.240(g)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be charged after no more than 50 hours of application lime. See further respirator requirements in the Tuesr Safety Requirements* section on this label. (d) 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. (2) Handlers in Enclosed Cabs: Applicators and other handlers in enclosed cabs must

immediately available in the enclosed cab and must be worn if the handler leaves the enclosed cab to perform any direct-contact activity.

(3) Applicator Outside an Enclosed Cab: Applicators applying this soil furnigant (or sealing the soil following application of this product) who are not inside an enclosed cab that meets requirements specified above must wear: (a) Coverats over short-sleaved shirt and short pants. (b) Chemical-resistant gloves, such as barrier laminate (EVAL) or viton. (c) Chemical-resistant footwear plus socks. (d) Face-sealing goggles, unless full-face respirator is worn. (e) Chemical-resistant headgear for overhead exposure. (e) A respirator with either an organic-vapor-removing cartridge with a profiler approved for posticides (MSHANNOSH approval number prefix TC-210) or canister approved for posticides (MSHANNOSH approval number prefix TC-120). Face-sealing goggles must be worn unless full-face respirator is worn. See further respirator requirements in the *User Safety Requirements* section on this label.

(4) Handlers in Treated Area Within 5 days After Application: Only the following handler tasks may be performed in the treated area within 5 days after the application is

complete:

Assessing/adjusting the soil seal

Assessing/adjusting the soil seal

Assessing pest control, application technique, or application efficacy

Sampling air or soil for this product

All other tasks are prohibited until the 5 day period has expired. Unless in an enclosed cab as described in (2) above, handlers performing the above tasks in the treated area within 5 days after application must wear; (a) Coveralts. (b) Chemical resistant gloves, such as barrier laminate (EVAL) or viton, (c) Chemical-resistant footwear and socks. (d) A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHAVNIOSH approval number prefix TC 23C), or canister approved for pesticides (MSHAVNIOSH approval number prefix TC 14G). See further respirator requirements in the "User Safety Requirements" section on this labet.

See Requirements Continued in Third Column

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Requirements, Continued:

(5) Handlers Exposed to High Concentrations: Handlers exposed to high airborne concentrations of this product, such as cleanup following large spills and exposure to this product in poorly venitated areas, must wear: (a) Chemical-resistant gloves, such as barrier laminate (EVAL) or vition. (c) Chemical-resistant footwear plus socks.(d) Chemical-resistant headgear, (e) Supplied-air respirator with MSHANIOSH approval number prafix TC-19C or self-contained breathing apparatus (SCBA) with MSHANIOSH approval number prefix TC-13F. See further respirator requirements in the "User Safety Requirementa" section on this tobol.

Note: In-lank cleaning of bulk tanks must be performed only by persons who have been specifically trained for this activity according to OSHA guidelines as described in OSHA 29 CFR Part 1910.146. Refer to User's Guide, section on storage tanks.

USER SAFETY REQUIREMENTS

- 1. Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met: (a) Cartridges or canisters must be replaced daily or when odor or initiation from this product becomes apparent, whichever is sooner; (b). Respirators must be it-lested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); c) Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134); (c) Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
- Dispose of Contaminated Clothing: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with fiquid from this product. Do not reuse them.
- Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. It 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 siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
- 5. Heat titness Avoidance: Use measures to evoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, fans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

USER SAFETY RECOMMENDATIONS

Users should

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toket.
 Remove cibiling immediately if pesticide gets inside. Then wash thoroughly and put on clean cibiling.
- on clean clothing.

 Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

ENVIRONMENTAL HAZARDS

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

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

PHYSICAL OR CHEMICAL HAZARDS

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

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 pesticide chemicals. Do not contaminate food, feed stuffs, drugs, or domestic water supplies.

DISPOSAL: Pasticide wastes are toxic. Improper disposal of excess positicide and rinsates is a violation of Federal law. If these wastes cannot be disposed of by use according to tabel instructions, contact your state positicide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office or guidance. Bocause 1,3-dichloropropene is corrosive under certain conditions, flush all application equipment with fuel oit, kerosene or a similar type of petroleum solvent immediately after use. Fill pumps and maters with new motor oil or a 50% motor oil/fuel oil institure before storing. Do not use water. Dispose of rinsate by applicable Federal, State and local regulations. Never Introduce rinsate or unused 1,3-dichloropropene into surface or underground water supplies.

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

REFILLABLE CONTAINERS: Follow cleaning and handling directions in the "Telone Soil Furnigants - A Guide to Application".

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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 follow instructions on proper operation of the system found in the "Telone Soil Furnigants - A Guide to Application" manual. Contact your distributor for more information or these materials.

END-ROW SPILLAGE CONTROL: The dispensing system must shut of the feed stream when chisels are raised out of the ground. Do not stop or park near any area where dribble from chisel tips has fallen. The applicator must follow instructions on proper operation and maintenance of the system found in the "Tetone Sof Furnigants". A Guide to Application" manual. Contact your distributor for more information or these

- A flow shutoff device must be placed as close as is technically feasible to the fluid discharge point. This can be a ball poppel, or disphragm check valve, or full flow shutoff device such as an electric or pneumatically actuated valve.
- Check valves must be replaced immediately if continuous drip occurs-
- Place check valves above the crifice. Isolate the check valves above the orifice. Isolate the check valve from upstream pressure by installing a main line shut off or

- s Isolate line check valve from upstream pressure by installing a main line should be bypass valve prior to the manifold.

 Do not acceed 14 inch diameter tubing.

 Do not use any method of end-row spillage control other than that stated on this labet.

 An alternative to shutoff devices is a purge system which clears the line of all liquid. Consuit your product representative for purge system description. Do not use any method of end-row spillage control other than that stated on this labet.

 WITH ALL BULK AND MINI-BULK CONTAINERS: 1,3-dichloropopene must be transferred through connecting hoses, pipes, and/or couplings sufficiently light to prevent workers or other persons from coming in contact with liquid 13-dichloropopene.
- 1,3-chandright period in the connection with 1,3-dichloropropens shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.

 2. External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- 3. The mechanical transfer system must be adequate to make necessary measur
- 3. The mechanical trainior system must be acceptate to make necessary measurements of the pesticide being used.

 4. Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of 1,3-dichloropropene product when the transfer is stopped and hose is removed or disconnected. A dry coupler that will minimize posticide leakage must be installed at the disconnect point.
- 5. The pressure in hoses used to move 1,3-dichloropropene beyond a pump must not exceed the manufacturer's maximum pressure specification.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

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, and that the start of application, and that the start of application, and that the start of application and the start of application to the start of the application by warming them orally and by posling furnight. Learning stgns at entrances to Ireated areas. The sign must bear the skull and crossbones symbol and state: (1) "DANGER/PELKGRO," (2) "Areas under furnigation, DO NOT ENTERNO ENTRE." (3) the date and time of furnigation, (4) "TRILONE II Furnigant in use," and (5) name, address, and telephone number of the applicator. Post the furnigant warming sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

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

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

WARRANTY DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. THE MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. INHERENT RISKS OF USE: It is impossible to eliminate all risks associated with use of this

inviences in reason was easily because of suppose the maintain an instances as a sociation was easily because of such factors as use of the product contrary to tabel instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.) abnormal conditions (such as excessive rainfall, drought, tornacous, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of the manufacturer or the seler.

All such risks shall be assumed by Buyer.
LIMITATION OF REMEDIES: The exclusive remedy for losses or damages resulting from this LIMITATION OF REMEDIES: The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at the manufacturer'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 manufacturer shall not be liable for losses or damages resulting from handling or use of this product unless the manufacturer is promptly notified of such loss or damage in writing, In no case shall the manufacturer be liable for consequential or injednals damages or losses. The forms of his Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of the manufacturer or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

September, 1996

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TRILONE II is a figuid furnigant for preplant treatment of soil to control plant parasitic normalodes and certain other soil pests and plant diseases in cropland. TRILONE II may be applied as a preplant soil treatment to control the following types of plant parasitic nematodes: burrowing, cirus cyst (golden, sugar beet, soybean, carrot and wheat), dagger, lance, pin, needle, renkorm, ring, root knot, root lesion, spiral, sting and stubby root. TRILONE it can also be used to control garden centipedes (symphylans) and wireworms, suppress sugar beel Rhizomania disease, Fusarium will of colton and Verticitium will of mint, and aid in the control of bacterial canker of peaches.

Before furnigation, 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 furnigation cannot be expected to eradicate entire populations. Therefore, post-treatment sampling is recommended to determine the need for additional pest management practices.

Consult State Agricultural Experiment Station or Extension Service specialists for Information on other practices such as post-harvest destruction of crop residues, weed control or other cultural practices, and use of nematode resistant crop varieties that may aid in reducing crop lesses from sail borne pests.

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. Any product formulated from this product and/or any product which is formulated from the repackaging of this product must be labeled only as a pre-plant soil injected and/or a soil furnigant product. Each formulator is responsible for obtaining EPA registration for each end use product.

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

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 corrostve

EQUIPMENT CLEAN-UP: Because 1,3-dichloropropene is corrosive under certain conditions, flush all application equipment with fuel oil, kerosene or a similar type of petroleum solvent immediately after use. Fill pumps and meters with new motor oil or a 50% motor oil/fuel oil. mixture before storing. Do not use water. Dispose of rinsale by incorporation into field just treated or by other approved means. Never introduce rinsale or unused 1,3-dichloropropene into surface or underground water supplies.

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

CHEMIGATION: Do not apply 1,3-dischioropropene through any type or irrigation system. FERTILITY INTERACTIONS: Fumigation may lemporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of terrifizer and fumigant are applied to soits that are either cold, wet, acid, or high in organic matter. To avoid injury to certain crops including red beets, carrots, corn, radishes, cole crops, legumes (beans), leituce, onions, and sugar beets, fertilize as indicated by soit tests made after funigation. To avoid ammonis injury or nitrale stanvalion (or both) to crops grown on high organic soils, de not use fertilizers containing ammonium salls. Use only fertilizers containing nitrates until after the crop is well established and the soll temperature is above 65 degrees F.

When using high rates of this product as required by certain state nursery regulations, ilming of when using night rates of an product as required by certain state nursery repairations, liming or highly acid soils before funiquation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as citrus seedlings, Comus sp., Crataegus sp., spruce, and vegetable crops such as cautillower have shown evidence of phosphorus deficiency following funiquation. To avoid this possible effect, additional phosphate fertilizer (foliar applied) is recommended where experience indicates a deficiency may occur.

APPLICATION DIRECTIONS

APPLICATION TIMING: Tritone It 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 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, tate summer or early fall treatment is recommended. SOIL MOISTURE: It is critical to manage soil moisture properly before furnigation. Plan furnigation for seasons, crop rotations, or irrigation schedules which leave moisture in the soil. The soil must be moist from two inches below the soil surface to all least 12 inches deep as determined by the feel method (see below). The amount of moisture needed in this zone will vary according to soil generally dries very rapidly and should not be considered in this determination. If there is insufficient moisture at the two to six inch depth, the soil moisture must be adjusted. If irrication is not available and there is adequate soil moisture below six inches, it may acquisted, it argulated is not available and union is acquised so include between statutes, a times, a time is not be brought to the surface by disking or plowing before or during the injection. To conserve existing soil moisture, pretreatment or treatment tillage practices should be done as close to the time of application as possible. For fields with more than one soil texture, soil moisture content in the fightest textured (most sandy) ereas must comply with this soil moisture requirement. Whenever possible, the field should be divided into areas of similar soil texture and the soil moisture of each area should be adjusted as needed. Coarser textured soils can be furnigated under conditions of higher soil moisture than finer lextured 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 troated 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 specialing, a or pest control advisor (Ag Consultant) for assistance.

In general, no irrigation should immediately precede subsoling or furnigation; however, when irrigation is available and surface soil moisture conditions are not likely to provide an adequate se; i against fumigant loss, a very light sprinkler irrigation to wet the lop 1 to 2 inches of soil may be used to bring soil moisture content to the desired level.

The following descriptions will aid in determining acceptable soil moisture conditions by the "feet method". For coarse soils (sand and loamy sand), there must be enough moisture to allow formation of a weak ball when compressed in the hand. Due to soil texture, this ball is easily broken with Ritle disturbance. In loamy, moderately coarse, or medium textured soils (coarse sandy loam, sandy loam, and fine sandy loam), a soil sample with the proper moisture content can be formed into a ball which holds together with moderate disturbance, but does not stock between the following. Since between the following said (start loam). the thumb and forefinger. Fine textured soits (clay loam, sitty clay loam, sandy clay, sit y clay, sandy clay loam and clay), should be pliable and not crumbly, but should not form a ribbon when compressed between the thumb and forelinger.

SOIL PREPARATION: The soil should be free of clods. Large clods can prevent effective SOIL PREPARATION: The soil should be free of clods. 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 fat 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 furnigant. Deviation from the above conditions may result in unsatisfactory results.

PLACEMENT OF FUMIGANT: This product may be applied as either a broadcast (overall) or row treatment. It must be placed at least 12 inches below the final soil surface. When soil conditions allow, placement a minimum of 14 inches below the final soil surface is recommended. ent 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. For row application, the furnigant must be placed at least 12 inches from the nearest soli/air interface (e.g. furnow).

APPLICATION METHODS AND EQUIPMENT

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

The furniciant 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-shallering capability of the chisels. The maximum outlet spacing should not exceed 24 inches.

With plow-soile equipment a 12-inch outlet spacing is recommended. Do not exceed an outlet spacing of 18 inches.

With Nobel (sweep) plow equipment use an outel 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. Refer to Table 1 for broadcast treatment rates for various cros

planting. Rofer to Table 1 for broadcast treatment rates for various crops.

ROW APPLICATION (for row spacing greater than 24 inches): Use chisel equipment to treat a band of soil where the crop is to be planted, i.e. the plant row. In general, when one chisel is used, apply product at twice the flow rates given in Table 1. When multiple chisels per plant row are used, space the chisels (timigant outlets) 8 to 12 inches apart and use the flow rates given in Table 1 per outlet (see Goodnote 1, Table 2). Regardsas of the number or spacing of chisels used, the furnigant must be placed at least 12 inches from the nearest solidair interface (e.g. furrow). With certain deeper rooted crops such as potatoes and sugar beets, higher flow rates much 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 scre exceed the maximum gallons per acre rates given in Table 1. To determine the amount (gallons) of product required per scre for various plant row spacings and flow rates, refer to Table 2. Note that as the distance between the plant rows increases the amount of furnigant required decreases and vice versa.

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 must 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 chisely or plow traces which can allow direct escape of the furnicant. A landern disc or similar equipment may be used for this purpose. To maximize scaling, steps should also be taken to compact the soil surface to further retard the rate of furnigant loss by following with a ring roller, cultipacker or

soil surface to further retard the rate of furnigant loss by following with a ring foller, cuttpracker or roller in combination with tillage equipment. Compaction of the soil surface stone does not effectively disrupt chisel or plow braces.

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 soil/air interface (e.g. furrow). The closest soil/air interface could be the furrow for multiple knife applications or the top of the bed for single knife applications. Row treatments into preformed beds must be sealed by disrupting the chisel trace using press sealers, ring rollers or by reforming the beds and diswers with such equipment. demolupe this griwoloi bas she

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 taying 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 trage should be adequate to eliminate clods and thoroughly mix crop residues into

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

After the funigation interval, to prevent phytotoxicity, allow the funigant to dissipate completely before planting the crop. Under optimum soil conditions for dissipation, 1 week for each 10 gallons/acre is recommended. 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 knille-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.

BUFFER ZONE: An application of this product shall not be made within 300 feet of an occup structure, such as a school, hospital, business or residence. No person shall be present at this structure at any time during the seven consecutive day period following application. This buffer zone does not apply to use on soils to be planted with personnial crops that will not experience additional 1,3-dichloropropene treatment for at least three years, for example pineapple, perennial vines, hope, mint, fruit and nut trees.

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APPROVED USES

CONTROL OF NEMATODES: TRILONE II is recommended for control of nematodes in soils to be planted to vegetable crops, field crops, fruit and nut crops, and nursery crops. Refer to Table 1 for broadcast application rates and to Table 2 for row treatment flow rates for specific row spacings.

Maximum application rates for nematode control (except cyst nematode) in mineral soils for the following crop groups:

| | (Gallons/acre) |
|----------------------------|----------------|
| Vegetable crops1 | ` †2 |
| Field Croos 2 | 12 |
| Fruit and Nut Crops 3 | 35 |
| Nursery Crops ⁴ | 55 |

TABLE 1Broadcast Treatment Rates for Nematode Control(a)

| | | Application Hates (a) | | | |
|-----------------------------|----------------|-----------------------|----------------------------------|--|--|
| | Soll Type | Broadcast | Floz per/1000 1 of Row/Outlet | | |
| Crop | or Texture | Gallons/Acre | | | |
| Vegetable Crops 2. | Mineral 3. | 9 to 124 | 25 to 35 | | |
| | Muck or Peat 5 | 25 | 74 | | |
| Field Crops | Mineral | 9 to 124 | 26 to 35 | | |
| | Muck or Peat | 18 | 53 | | |
| Fruit and Nut Crops 6,7,8,9 | Mineral | 27 to 35 | 79 to 103 | | |
| Nursery Crops 10 | Mineral | 42 (0 55 | 124 to 162 | | |

- (a) Do not exceed specified maximum application rates.
- 1 Flow rates are based on 12 inch outlet spacing. Flow rates for alternate spacings can be calculated using the following formula: fl oz/1000 ft of row/outlet = 0.245 x rate in gallons/acre x outlet spacing in inches. For row treatment refer to Table 2.
- 2 Potatoes: Before funigation, soit sampling for the type and number of pests present is recommended and can help to determine the need for additional treatment with a contact nematicide. Preharvest tuber sampling for nematicides also is recommended. If the nematicide population is high enough to damage the crop, potatoes can be harvested early. Do not store potatoes with a detectable nematicide infestation.

Row treatment is not recommended for potatoes in irrigated areas of western and northerwestern states.

In Idaho, Nevada, Oregon, Utah, and Washington, and in Modoc and Siskiyou counties of California refer to supplemental labeling entitled: "For Nematode and Wireworm Control in Soits to be Planted to Potatoes or Onions" for directions for use.

- $^{\rm 3}$ Mineral soil includes sand, sandy loam, siit, and clay loam. Use the higher rates for liner textured (heavier) soils.
- 4 For cyst-forming nematodes use 18 gallons per acre (53 fi oz/1000 ft/outlet),
- 5 Greater than 20% organic matter content.
- 6 Pineapple: Application may be made at the time of planting. For best results, seal the soil with polyethylene film, which acts as a gas permeability barrier.
- Tree Planling Sites: Use 24 fl oz (1.5 pinls) of product by application of the furnigant at a single point in the center of each planting sites at a depth of 5 feet below the final soil surface. Sites prepared by backhoeing to break up restrictive soil layers that may retard furnigant movements should be dug in the approximate definencions of 10 x 10 feet. The hole should then be backfilled to a depth of 5 feet, the furnigant applied using a closed-system application tube and the remainder of the soil previously removed immediately added to the hole. For sites where no restrictive soil layers are present, the furnigant can be applied to a depth of 5 feet using an injection auger. For best results, prepare and treat planting sites in the fall and plant in the spring.
- 8 For shallow-rooted plants grown only one year, use 15 to 27 gallons per acre (44 to 79 ft oz/1000 $^{\circ}$ ft of row/outlet).
- ⁹ Citrus: For burrowing nematode control, inject product on 18-inch centers at least 12 inches deep. For buffers within existing groves or for tree planting sites within existing groves, do not apply within 5 feet of fiving trees. Keep the field free of plants susceptible to this nematode at least two years before planting to citrus.

TABLE 2 Rate Conversion Chart for Various Row Spacings and Fumigant Flow Rates^(a)

Note: In no case should the amount of furnigent applied per acre exceed the gallons per acre rates for proodcast treatment given in Table 1.

| | | | | | | | | | _ |
|---------|------------------|----------------------------|------|------|------|------|------|------|------|
| Fi Oz/ | | Plant Row Spacing (Inches) | | | | | | | |
| 1000 Ft | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 |
| of Row | Gallons Per Acre | | | | | | | | |
| 52 | 7.6 | 6.6 | 5.9 | 5.3 | 4.8 | 4.4 | 4.1 | 3.8 | 3.5 |
| 60 | 8.8 | 7.7 | 6.8 | 6.1 | 5.6 | 5.1 | 4.7 | 4.4 | 4.1 |
| 68 | 9.9 | 8.7 | 7.7 | 6.9 | 6.3 | 5.8 | 5.3 | 4.9 | 4.6 |
| 76 | 11.1 | 9.7 | 8.6 | 7.8 | 7.0 | 6.5 | 6.0 | 5.5 | 5.2 |
| 84 | 12.3 | 10.7 | 9.5 | 8.6 | 7.8 | 7.1 | 6.6 | 6.1 | 5.7 |
| 92 | 13.4 | 11.7 | 10.4 | 9,4 | 8.5 | 7.8 | 7.2 | 6.7 | 6.3 |
| 100 | 14.6 | 12.8 | 11.3 | 10.2 | 9.3 | 8.5 | 7.8 | 7.3 | 6.8 |
| 108 | 15.8 | 13.8 | 12.2 | 11.0 | 10.2 | 9.2 | 8.5 | 7,9 | 7.3 |
| 116 | 16.9 | 14.8 | 13.2 | 11.8 | 10.8 | 9.9 | 9,1 | 8.5 | 7.9 |
| 124 | 18.1 | 15.8 | 14.1 | 12.7 | 11.5 | 10.5 | 9.7 | 9.0 | 8.4 |
| 132 | 19.3 | 16.8 | 15.0 | 13.5 | 12.2 | 11.2 | 10,4 | 9.6 | 9.0 |
| 9.0 | 20.4 | 17.9 | 15.9 | 14.3 | 13.0 | 11.9 | 11.0 | 10.2 | 9.5 |
| 148 | 21.6 | 18.9 | 16.8 | 15.1 | 13.7 | 12.6 | 11.6 | 10.B | 10.1 |
| 156 | 22.8 | 19.9 | 17.7 | 15.9 | 14.5 | 13.3 | 12.2 | 11.4 | 10.6 |
| 164 | 23.9 | 20.9 | 18.6 | 16.7 | 15.2 | 13.9 | 12.9 | 11.9 | 11.2 |
| 172 | 25.1 | 21.9 | 19.5 | 17.6 | 16.0 | 14.6 | 13.5 | 12.5 | 11.7 |
| 180 | 26.3 | 23.0 | 20.4 | 18.4 | 16.7 | 15.3 | 14.1 | 13.1 | 12.2 |
| 188 | 27.4 | 24.0 | 21.3 | 19.2 | 17.4 | 16.0 | 14.8 | 13.7 | 12.8 |
| 196 | 28.6 | 25.0 | 22.2 | 20.0 | 18.2 | 16.7 | 15.4 | 14.3 | 13.3 |
| 204 | 29.8 | 26.0 | 23.1 | 20.8 | 18.9 | 17.4 | 16.0 | 14.9 | 13.9 |
| 212 | 30.9 | 27.0 | 24.0 | 21.6 | 19.7 | 18.0 | 16.6 | 15.4 | 14.4 |
| | | | | | | | | | |

¹ For row specing of 24 inches or less, apply as a broadcast treatment. For treatments with row specing greater than 24 inches, refer to Table 1 for the rate needed for a specific crop and/or so texture. To determine gallons per acre for row treatments, double the flow rate in Table 1 and look up the corresponding gallons per acre in Table 2.

For single chisel applications; the flow rates are double those listed in Table 1. For example, for vegetable crops in mineral soil, the flow rate for a single chisel row treatment is 52 to 70 fl oz per 1000 ft of row (note the broadcast rate is 26 to 35 fl oz per 1000 ft of row).

For multiple chisel applications: use the flow rate given in Table 1 per outlet. For example, for vegetable crops in mineral soil using 2 chisels per row, the flow rate per outlet is 52 to 70/2 or 25 to 35 fl az per 1000 ft of row per outlet.

To obtain the gallons per acre used for a row spacing not shown in this table, use the following equation:

fl oz/1000 fl of row

x 4.08a = gallons per acre
row spacing (inches)

12 inches x 42,56 (no. 1000 fl/acre)

128 (fl oz per gallon)

PLANT DISEASES

Bactorial Canker of Peaches: To aid in the control of this disease apply Trione II as a prepaltri broadcast treatment to light (sandy) soils at the rate of 35 gallons per acre (103 fl oz/1000 fl row/outlet) preferably in the fall when the soil is warm (55 to 80 degrees F at injection depth and moist. Inject the fumigant at a depth of 12 to 14 inches with chisels mounted on 12-inch centers.

Fusarium Wat of Cotton: The effects of this disease can be suppressed by controlling the root knot nemalodes associated with this disease/nemalode complex. Use product as a row treatment at the rate of 12 gallons per acre (35 fl oz/1000 ft row/outlet).

Sugar Beet Rhizomania Disease: Use Trilone II to suppress the effects of this disease by preplant broadcast application at the rate of 10 to 18 gallons per acre broadcast equivalent (29 to 53 il oz/1000 ft row/outlet). Use the higher rates for heavier (filter textured) softs and/or for higher levels of disease infectation. Trilone II is believed to reduce the activity of Polymyxa bata, which has been identified as the vector of the Rhizomania disease virus.

Verticillium Witt of Mint: To aid in the control of this disease, apply Trilone II as a broadcast trealment at 25 to 30 gallons per acre (73 to 88 fl az/1000 ft outlet) in the spring, or preferably in the fall.

SOIL INSECTS

Symphytans (Garden Centipedes): Use Trilone II for treatment of soil to be planted to crops where these pasts have been shown to be a problem. Apply the fumigant only as a broadcast treatment at the rate of 18 to 35 gallons per acre (103 fl oz/1000 ft row/outlet) when soil temperature is warm (55 to 80 degrees F) at the application depth.

Wireworms: Use Trilone il for ireatment of soil to be planted to crops where these pests have , , , , , been shown to be a problem. Apply the fumigent as a broadcast treatment at 20 gallons by injection at least 14 inches below the final soils surface.

For wirewerm control in Idaho, Nevada, Oregon, 'Utah, and Washington, and in Modoc and Siskiyou counties of California refer to supplement labeling entitled: 'For Nematode and Worewerm Control in Sois to be Planted to Polatees or Onkers' for directions for use.