

## Telone\* EC

EPA Reg. No. 62719-321

### Registration Notes:

**Source label text** based on EPA-accepted copy (Notice of Registration) dated April 23, 2001 with conditions of acceptance and the following notifications "H1A / Telone EC / Notification With Edits / 04-26-01", and notification coded "H1A / Telone EC / Notification With Edits / 06-01-01".

### Proposed Changes by Amendment:

1. **Ingredients Statement:** Revised nominal concentration of active ingredient and pounds per gallon statements based on proposed changes in CSF. With proposed changes in CSF, the nominal concentration of 1,3-D has increased from 91.7% to 93.6%.

**31May02** – Additional changes made to the proposed label in response to a letter dated May 17, 2002 from Mary L. Waller, EPA.

1. First Aid: Minor changes made in accordance with PR Notice 2001-1; placed First Aid statement in box.

[Editor's Note: Added text is underlined and deleted text is denoted by ~~strike-through~~.]

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**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

JUN 27 2002

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

62719-321

(Base label):

**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.

(logo) Dow AgroSciences

**Telone\* EC****A liquid fumigant for preplant treatment of soil to control plant parasitic nematodes and certain other soil pests in cropland using drip irrigation systems only.**

Active Ingredient:	(by weight)
1,3-dichloropropene.....	91.7-93.6%
Inert Ingredients .....	8.3-6.4%
Total .....	100.0%

1 gallon of Telone EC weighs 10.0 lb at 70°F. Contains ~~9.17~~ 9.45 lb of 1,3-dichloropropene per gallon.**Keep Out of Reach of Children****WARNING AVISO**

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.)

**Precautionary Statements****Hazards to Humans and Domestic Animals****Hazardous Liquid and Vapor**

- Do not swallow any of this product. May be fatal if 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 listed below. If you want more options, follow the instructions for Category H on an EPA chemical resistance category selection chart. PPE constructed of Saranex, neoprene, and chlorinated polyethylene provide short-term contact or splash protection against liquid in this product. Longer-term protection is provided by PPE constructed of Viton, Teflon, and EVAL barrier laminates (for example Responder suits manufactured by Life-guard or Silvershield gloves manufactured by North). Where chemical-resistant

materials are required, leather, canvas, or cotton materials offer no protection from this product and must not be worn when contact with this product is possible. Coveralls must be loose-fitting and constructed of woven fabrics (e.g. tight knot cotton or cotton/polyester), non-woven fabrics (e.g. Tyvek or Sontara), or fabrics containing microporous Teflon.

### 1. Handlers Performing Mechanical Transfer of Product - Closed Delivery Systems

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear and socks
- Face-sealing goggles

The following PPE must be immediately available to the handler in case of emergency:

- Coveralls
- Full-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R P or HE prefilter.

### 2. Handlers Performing Direct Contact Tasks

Direct contact tasks are tasks performed outdoors. They include:

- |   |  |
|---|--|
| • equipment calibration or adjustment       | • preparing containers for aeration  |
| • equipment clean-up and repair             | • any activity less than 6 feet from an unshielded pressurized hose containing this product. |
| • product sampling                          | • any other task not otherwise listed in (3) or (4) below                                    |
| • rinsate disposal                          |  |
| • fumigant transfer - open delivery systems |  |
| • clean-up of small spills                  |  |

Handlers performing direct-contact tasks must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron
- Full-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R P or HE prefilter.

### 3. Handlers in the treated area within 5 days after application

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

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

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

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

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

(MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R P or HE prefilter.

#### 4. Handlers exposed to high concentrations

Handlers exposed to high airborne concentrations of this product, such as cleanup following large spills, must wear:

- Chemical-resistant suit
- Chemical-resistant gloves, such as barrier laminate (EVAL) or Viton
- Chemical -resistant footwear 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 on this label.

**Note:** In-tank cleaning of bulk tanks must be performed only by persons who have been specifically trained for this activity. Refer to OSHA 29 CFR Part 1910.146 and the "Telone Soil Fumigants - A Guide To Application" manual section on Storage Tanks.

### Engineering Controls Requirements

With all bulk and mini-bulk containers, Telone EC must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with liquid Telone EC.

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

### 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. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
  - c. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
  - 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. **Dispose of Contaminated Clothing:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
3. **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.
4. **Contact with Mouth:** Never siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.

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**5. Heat Illness Avoidance:** Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, fans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets 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 clothing.

### First Aid

**If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call poison control center or doctor for treatment advice.

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**If swallowed:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

**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.

### 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 could result in ground water contamination. Do not apply within 100 feet of any well used for potable water. Do not apply in areas overlying karst geology.

In North Dakota, South Dakota, Wisconsin, Minnesota, New York, Maine, New Hampshire, Vermont, Massachusetts, Utah, and Montana: Where groundwater aquifers exist at a depth of 50 feet or less from the surface, do not apply this product where soils are Hydrologic Group A.

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**Physical or Chemical Hazards**

**Flammable - Do not use, pour, spill, or store near heat or open flame. Do not cut or weld container.**

**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.

**Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.**

**Notice: Read the entire label. Use only according to label directions. Before using this product, read "Warranty Disclaimer," "Inherent Risks of Use," and "Limitation of Remedies" at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

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

EPA Reg. No. 62719-321

28 17 45 44 69  
EPA Est. 464-TX-1; 464-MI-1; 464-CA-1; 464-CA-2; 54686-WA-1  
Superscripts correspond to places 7 & 8 of lot number.

\*Trademark of Dow AgroSciences LLC  
Dow AgroSciences LLC • Indianapolis, IN 46268 USA

**Soil Fumigant**

**Net Contents \_\_ gal**

7 8 1

(Label booklet cover):

**RESTRICTED USE PESTICIDE**

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Active Ingredient:	(by weight)
1,3-dichloropropene.....	91.7-93.6%
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Total .....	100.0%

1 gallon of Telone EC weighs 10.0 lb at 70°F. Contains 9.17-9.45 lb of 1,3-dichloropropene per gallon.

**Keep Out of Reach of Children**

**WARNING AVISO**

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Dow AgroSciences LLC • Indianapolis, IN 46268 USA

**Soil Fumigant**

Net Contents \_\_ gal



(page 1 to end)

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

## WARNING

### Hazardous Liquid and Vapor

- Do not swallow any of this product. May be fatal if 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, 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 on an EPA chemical resistance category selection chart. PPE constructed of Saranex, neoprene, and chlorinated polyethylene provide short-term contact or splash protection against liquid in this product. Longer-term protection is provided by PPE constructed of Viton, Teflon, and EVAL barrier laminates (for example Responder suits manufactured by Life-guard or Silvershield gloves manufactured by North). Where chemical-resistant materials are required, leather, canvas, or cotton materials offer no protection from this product and must not be worn when contact with this product is possible. Coveralls must be loose-fitting and constructed of woven fabrics (e.g. tight knot cotton or cotton/polyester), non-woven fabrics (e.g. Tyvek or Sontara), or fabrics containing microporous Teflon.

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- Face-sealing goggles

The following PPE must be immediately available to the handler in case of emergency:

- Coveralls
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#### 2. Handlers Performing Direct Contact Tasks

Direct contact tasks are tasks performed outdoors. They include:

- |   |   |
|---|---|
| • equipment calibration or adjustment       | • preparing containers for aeration   |
| • equipment clean-up and repair             | • any activity less than 6 feet from an unshielded pressurized hose containing this product |
| • product sampling                          | • any other task not otherwise listed in (3) or (4) below                                   |
| • rinsate disposal                          |   |
| • fumigant transfer - open delivery systems |   |
| • clean-up of small spills                  |   |

Handlers performing direct-contact tasks must wear:

- Coveralls over short-sleeved shirt and short pants
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### 3. Handlers in the treated area within 5 days after application

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

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

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

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### 4. Handlers exposed to high concentrations

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- Chemical-resistant footwear 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 on this label.

**Note:** In-tank cleaning of bulk tanks must be performed only by persons who have been specifically trained for this activity. Refer to OSHA 29 CFR Part 1910.146 and the "Telone Soil Fumigants - A Guide To Application" manual section on Storage Tanks.

### Engineering Controls Requirements

**With all bulk and mini-bulk containers,** Telone EC must be transferred through connecting hoses, pipes, and/or couplings sufficiently tight to prevent workers or other persons from coming in contact with liquid Telone EC.

1. All hoses, piping, and tanks used in connection with Telone EC shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.
2. External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
3. The mechanical transfer system must be adequate to make necessary measurements of the pesticide being used.

4. Shut-off devices must be installed on the exit end of all hoses and at all disconnect points to prevent leakage of Telone 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 Telone EC beyond a pump **must not exceed** the manufacturer's maximum pressure specification.

### 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. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
  - c. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
  - 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. **Dispose of Contaminated Clothing:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with liquid from this product. Do not reuse them.
3. **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.
4. **Contact with Mouth:** Never siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
5. **Heat Illness Avoidance:** Use measures to avoid or minimize heat illness while using this product. These measures include gradual adjustment to heat and respirator stress, fans for cooling, cooling vests, frequent breaks to cool down, frequent intake of drinking water, and maintaining weight from day to day.

### User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets 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 clothing.

### First Aid

**If inhaled:**

- Move person to fresh air.
- If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**If on skin or clothing:**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call poison control center or doctor for treatment advice.

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**If swallowed:**

- Call a poison control center or doctor immediately for treatment advice.

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- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by ~~the~~ a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

**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.

### 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 could result in ground water contamination. Do not apply within 100 feet of any well used for potable water. Do not apply in areas overlying karst geology.

In North Dakota, South Dakota, Wisconsin, Minnesota, New York, Maine, New Hampshire, Vermont, Massachusetts, Utah, and Montana: Where groundwater aquifers exist at a depth of 50 feet or less from the surface, do not apply this product where soils are Hydrologic Group A.

### Physical or Chemical Hazards

**Flammable - Do not use, pour, spill, or store near heat or open flame. Do not cut or weld container.**

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### Directions for Use

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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 part 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), and restricted-entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

#### Entry Restriction:

Entry (including early entry that would otherwise be permitted under the WPS) by any person -- other than a correctly trained and equipped handler who is performing a handling task permitted on this labeling -- is **prohibited** from the start of application until 5 days after application. Non-handler entry is prohibited while tarps are being removed.

#### Notification:

Notify workers of the application by warning them orally and by posting fumigant warning signs at entrances to treated areas. The sign must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO," (2) Areas under fumigation, **DO NOT ENTER/NO ENTRE**," (3) the date and time of fumigation, (4) "Telone EC fumigant in use," and (5) name, address, and telephone number of the applicator." Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size and timing of posting and removal.

**PPE for Reentry During the Entry-Restricted Period:**

PPE for entry that is permitted by this labeling is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

**Storage, Shipment and Disposal**

**Shipment:** Do not contaminate water, food or feed by storage and disposal.

**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, feedstuffs, drugs, or domestic water supplies.

**Disposal:** Pesticide wastes are toxic. Improper disposal of excess pesticide and rinsates is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency, or the hazardous waste representative at the nearest EPA regional office for guidance.

Because Telone EC 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 rinsate by applicable Federal, state and local regulations. Never introduce rinsate or unused Telone EC into surface or underground water supplies.

**Refillable Containers:** Follow cleaning and handling directions in the "Telone Soil Fumigants - A Guide to Application" manual.

**General Information**

Telone\* EC is a liquid fumigant for preplant treatment of soil to control plant parasitic nematodes and certain other soil pests and plant diseases in cropland. Telone EC may be applied through surface or buried drip tape. The use of a tarp seal is mandatory for all applications of this product.

Telone EC may be applied as a preplant soil treatment to control the following types of plant parasitic nematodes: burrowing, citrus, cyst (golden, sugar beet, soybean, carrot and wheat), dagger, lance, pin, needle, reniform, ring, root knot, root lesion, spiral, sting and stubby root.

Telone EC can also be used to suppress *Fusarium* wilt of cotton.

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

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

**General Use Precautions**

Soil fumigation using Telone EC should be conducted only according to directions and conditions of use described in this label.

**Do not formulate this product into other end-use products.**

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

**Do not use containers, pumps or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions Telone EC may be severely corrosive to such metals.**

**Fertility Interactions:** Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are, either cold, wet, acid, or high in organic matter. To avoid crop injury, fertilize as indicated by soil tests made after fumigation. To avoid ammonia injury or nitrate starvation (or both) to crops grown on high organic soils, do not use fertilizers containing ammonium salts. Use only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 65°F.

## Application Directions

### Application Rates

#### Control of Nematodes

Telone EC is recommended for control of nematodes in soils to be planted to vegetable crops, field crops, fruit and nut crops, and nursery crops. Dilution rate as applied: 500 to 1,500 ppm of Telone EC. 1,500 ppm 1,3-D is equivalent to 1 gallon of Telone EC in 707 gallons of water. The following table provides application rates for row treatment in gallons per acre of bedded row and maximum rate per field acre.

**Table 1. Application Rates for Control of Nematodes**

Crop	Soil Type	Broadcast Application Rates (1) (Gallons/Acre)
Field crops	Mineral	9 – 18 (3)
Vegetable crops (2)		
Fruit Crops	Mineral	9 – 24

1. Rates given are broadcast equivalent. Based on the width of the area to be treated, reduce the broadcast rates proportionately. Not intended for use on muck or peat soils.
2. Potatoes: Before fumigation, soil 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 nematodes also is recommended. If the nematode population is high enough to damage the crop, potatoes can be harvested early. Do not store potatoes with a detectable nematode infestation.
3. For cyst-forming nematodes, use 18 gallons per acre of bedded row.

#### Control of Plant Diseases

**Fusarium Wilt of Cotton:** The effects of this disease can be suppressed by controlling the root knot nematodes associated with this disease/nematode complex. Use Telone EC at the rate of 12 gallons per acre.

### Application Methods

**Drip Application:** Apply Telone EC as a preplant application through surface or buried drip irrigation systems. A secured tarp seal is required for all applications. As a minimum, the tarp seal must remain in place for 14 days.

**Planting Interval:** Leave the soil undisturbed and unplanted for at least 14 days after application of the fumigant. A longer undisturbed interval is required under cold or wet soil conditions.

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

**Buffer Zone:** An application of Telone EC shall not be made within 100 feet of an occupied structure, such as a school, hospital, business or residence. No person shall be present at this structure at any time during the seven consecutive day period following application. **This buffer zone does not apply to use on soils that will not experience an additional 1,3-D treatment for at least three years. For example, on soils to be planted with perennial crops.**

**Tank Mixing:** Do not mix Telone EC with other agricultural products.

**Preharvest Interval:** Not applicable.

#### **Other Requirements**

Soil must be in good seed bed condition, free of clods and undecomposed plant material.

Use drip irrigation components made only of copper, stainless steel, steel, polypropylene, polyethylene, nylon, Teflon, rigid PVC, EPDM and Viton. Rigid PVC should not be exposed to undiluted Telone EC or more than 1500 ppm Telone EC in the diluted form. Do not use drip tube materials made of aluminum, magnesium, zinc, cadmium, tin and alloys, or vinyl.

Drip emitters should be spaced 12 - 24 inches apart on the drip lines. Planting should occur within the treated area.

**Step 1:** In sandy soils it maybe necessary to pre irrigate the area to be treated. Use sufficient water to increase soil moisture throughout the treatment zone to near or at field capacity. Then apply fumigant as directed.

**Step 2:** Apply appropriate rate (see Table 1) of Telone EC per acre broadcast equivalent in enough water so that soil moisture throughout the treatment zone, including near the soil surface, is again at or near field capacity. The concentration of Telone EC must be between 500 and 1,500 parts per million in the drip irrigation lines. Do not exceed a concentration of 1,500 parts per million of Telone EC. Telone EC must be metered into the water supply and pass through a mixing device (centrifugal pump or static mixer) to assure proper agitation before it is distributed into the drip irrigation line system. Do not allow treatment solution to accumulate on the soil surface. If ponding, puddling or run-off occurs, then 1) discontinue application immediately, and 2) cover with soil to absorb.

**Step 3:** After application of Telone EC, continue to irrigate the area with sufficient untreated water to flush the mixture from the irrigation system. Do not allow Telone EC to remain in the irrigation system. Leave the soil undisturbed for at least 14 days. Then proceed with normal crop management activities.

#### **Special Use Precautions for Chemigation Application Equipment**

1. Apply this product only through surface and buried tape drip irrigation systems. Do not apply this product through any other type of irrigation system.

2. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.
3. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. Do not apply this product through any other type of irrigation system except as described in this labeling.
6. Only a person knowledgeable of the chemigation system and responsible for its operation, or a person under the supervision of the responsible person, shall operate the system and make necessary adjustments should the need arise.
7. The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent back-flow contamination of the water source.
8. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the chemical supply or injection pump.
9. The pesticide injection pipeline must also contain a functional, normally closed, automatic valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
10. The system must contain a functional inter-lock to automatically shut off the pesticide injection pump when the water pump motor stops.
11. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
12. Injection systems must use a metering pump, such as a positive displacement injection pump or diaphragm pump, venturi system, or a pressure-safe cylinder containing Telone EC equipped with a metering valve and flow meter. This equipment must be constructed of materials that are compatible with Telone EC and capable of being fitted with a system interlock.
13. Telone EC should be injected into the center of the irrigation water stream by using a suitable dip tube. This will prevent damage from undiluted fumigant contacting PVC pipe at the point of injection.

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### **Terms and Conditions of Use**

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**If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.**

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### **Warranty Disclaimer**

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Dow AgroSciences 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. Dow AgroSciences MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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### **Inherent Risks of Use**

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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### **Limitation of Remedies**

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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 Dow AgroSciences' 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.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer and Inherent Risks of Use above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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Accepted: \_\_/\_\_/\_\_