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	627 19-18	7-21-	2003	1/26		
Please read instructions on rever		Form As	DDIGVAG, OMB No. 207			
SEPA Er	United States nvironmental Protecti Washington, DC 20		Registrat Amendm Other	1		
	Applicati	on for Pesticide - Se	ction I			
1. Company/Product Number Dow AgroSciences/62719-	12	2. EPA Product M Mary	anager L. Waller	3. Proposed Classification		
4. Company/Product (Name)		PM# 21		None Restricted		
Dow AgroSciences/Telone				an with EIEDA Contine O(a)(0)		
5. Name and Address of Applican	t (Include ZIP Code)	•		e with FIFRA Section 3(c)(3) along the composition and labeling		
Dow AgroSciences LLC 9330 Zionsville Road		to:				
Indianapolis, IN 46268		EPA Reg. No.				
Check if this is a	new address	Product Name	:			
		Section - II				
Amendment - Explain belo	nw		nted labels in response etter dated	to NOTIFICATION		
			•	NOTIFICATION		
Resubmission in response	to Agency letter dated	"Me Too"	* Application.	JUL 2 1 2003		
Notification - Explain below	W.	Other- E	xpiain below.			
Explanation: Use additional page Per PR Notice 98-10, Dow Agi The alternate brand name is Te	roSciences is notifying the E	PA of an alternate brand na	mefor Telone* C-17	soil fungicide and nematicide.		
		Section - III				
1. Material This Product Will Be P	ackaged in:					
Child-Resistant Packaging Uni	t Packaging	Water Soluble Packaging	2. Type of C			
I ┝┈┤ I┝─	Yes 	Yes		Metal Plastic		
No L	No Yes" No per	If "Yes" No. pe	Glass Paper			
i Celliicalion must ii	Yes" No. per it Packaging wgt. container	lf "Yes" No. pe Package wgt contain		Other (Specify)		
3. Location of Net Contents Inform	nation 4. Size(s) Re	tail Container	5 Location of Labe	1 Directions		
Label Contain	. •	19 II O CHIERIA	ng accompanying product			
6. Manner in Which Label is Affix	ed to Product Lith	ograph Oti	her	ig accompanying product		
	· · · · · · · · · · · · · · · · · · ·	er glued				
		Section - IV				
1. Contact Point /Complete items	s directly below for identification	on of individual to be contacte	d, If necessary, to pro	cess this application)		
Name		Title		ne No. (include Area Code)		
Bruce A. Houtman		Regulatory Manager	(317)	337-3376 *** *		
	Certifica I have made on this form and owing false or misleading state	all attachments thereto are to		(Stamped)		
2. Signature		3. Title	V			
ander Tourson		Regulatory Manager	or or o			
4. Typed Name	// /	5. Date	0 m u v			
Bruce A. Houtman	·		* o o o o			
* Trademark of Dow AgroSciences	LLC	July 9, 2003				
EPA Form 85 7 0-1 (Bev. 8-94) Pre	vious aditions are checlete	14	Inita EDA Ella Canu (	eriginal) Vallow Applicant Con-		

Q1A / Telone C-17 CA / ABN Notification / 07-09-03
file: Telone C-17 CA-12 ABN 09July03N.doc

# Telone\* C-17 CA

EPA Reg. No. 62719-12 Main Brand Name: Telone C-17

# **Registration Notes:**

Source label text based on EPA accepted copy for Telone C-17 dated June 17, 2003.

## Changes by notification:

1. Notification of alternate brand name "Telone C-17 CA."

2. Added "in California" to end of sale copy statement "A multi-purpose liquid furnigant for preplant treatment of soil to control nematodes, symphylans and certain soil borne diseases in cropland in California."

\*Trademark of Dow AgroSciences LLC



Page 1 3/6

(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

NOTIFICATION

JUL 2 1 2003

# Telone\* C-17 CA

A multi-purpose liquid fumigant for preplant treatment of soil to control nematodes, symphylans and certain soil borne diseases in cropland in California.

Not for use in greenhouses or other enclosed areas.

Active Ingredients:

1,3-dichloropropene	81.2%
chloropicrin	
Inert Ingredients	
Total Ingredients	

One gallon of Telone C-17 CA weighs about 10.6 lb. Contains 8.6 pounds of 1,3-dichloropropene and 1.75 pounds of chloropicrin per gallon.

# Keep Out of Reach of Children

# DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See back panel for First Aid statements.

# **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. Corrosive. Causes Irreversible Eye Damage.
- Do not get on skin. May be fatal if absorbed through the skin. Causes skin burns. May cause allergic skin reaction.
- Do not breathe vapor. May be fatal if inhaled. May cause lung, liver, and kidney damage and respiratory system irritation upon prolonged contact.
- 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 the wearing the personal protective equipment specified in this labeling.
- This fumigant has the capacity to cause marked irritation to the upper respiratory tract. As strong lachrymator (tear-producing eye irritant). Low concentrations are capable of causing painful eye irritation. The effect may be so powerful that a person may become temporarily blinded and panic-stricken. That, in turn, may lead to accidents.

age 2

#### **Air Concentration Level**

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

## **Personal Protective Equipment (PPE)**

Chemical-Resistant Materials: Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category H on an EPA chemical resistance category selection chart. PPE constructed of Saranex, neoprene, and chlorinated polyethylene provide short-term contact or splash protection against liquid in this product. Longer-term protection is provided by PPE constructed of Viton, Teflon, and EVAL barrier laminates (for example, Responder suits manufactured by 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 Tasks with Liquid Contact Potential

Tasks with liquid contact potential are tasks performed outdoors or in a well-ventilated area. They include:

- · Equipment calibration or adjustment
- Equipment clean-up and repair
- Product sampling
- Any activity less than 6 feet from an unshielded pressurized hose containing this product
- Rinsate disposal
- · Fumigant transfer
- Clean-up of small spills
- · Preparing containers for aeration
- Any other task not otherwise listed in (2), (3), or (4) below

Handlers performing tasks with liquid contact potential must wear:

- Coveralls over short-sleeved shirt and short pants
- · Chemical-resistant gloves, such as barrier laminate (EVAL) or viton
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- · Chemical-resistant apron
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). See further respirator requirements in the User Safety Requirements section on this label.
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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).
- 2a. Handlers Performing Tasks with No Liquid Contact Potential Broadcast applications in-bed applications or applications at the time of bedding except as in 2b.

Tasks with no liquid contact potential are tasks performed outdoors or in a well-ventilated area. These tasks include:

Tractor driving

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- · Soil sealing
- Field activities on the day of application that do not disrupt the soil at the depth of liquid injection

Handlers performing tasks with no liquid contact potential must wear:

- · Loose fitting or well ventilated long-sleeved shirt and long pants
- Shoes and socks
- · A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- If air concentrations of chioropicrin exceed 0.1 ppm, handlers must wear a 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). 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vaporadsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

# 2b. Handlers Performing Tasks with No Liquid Contact Potential - Pre-bed, Row product applications (e.g., Yetter rig)

Tasks with no liquid contact potential are tasks performed outdoors or in a well-ventilated area. These tasks include:

- Tractor driving
- Soil sealing
- Field activities on the day of application that do not disrupt the soil at the depth of liquid injection

Handlers performing tasks with no liquid contact potential must wear:

- · Loose fitting or well ventilated long-sleeved shirt and long pants
- · Shoes and socks
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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)
- 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be "". ; immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

### 3. Handlers in Treated Area 1 to 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 pest control, application technique, or application efficacy

- · Sampling air or soil for this product
- · Removing tarp or plastic film

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

Handlers in treated area 1 to 5 days after application must wear:

- · Loose fitting or well ventilated long-sleeved shirt and long pants
- · Shoes and socks
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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). 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

### 4. Handlers Exposed to High Concentrations

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

- Chemical-resistant suit
- · Chemical-resistant gloves, such as barrier laminate (EVAL) or viton
- · Chemical-resistant footwear plus socks
- Chemical-resistant headgear
- 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 User's Guide section on Storage Tanks.

# **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 Telone C-17 CA for more information or these materials.

End-Row Spillage Control: The dispensing system must shut off the feed stream when chisels are raised out of the ground. Do not stop or park near any area where dribble from chiselftips has fallen? The applicator must follow instructions on proper operation and maintenance of the system found in the Telone Soil Fumigants - A Guide to Application" manual. Contact your distributor for Telone C-17 CA for more information or these materials.

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- 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 diaphragm 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 tubing.
- Do not use any method of end-row spillage control other than that stated on this label.
- An alternative to shutoff devices is a purge system which clears the line of all liquid. Consult your Dow AgroSciences 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, Telone C-17 CA 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 C-17 CA.

- 1. All hoses, piping, and tanks used in connection with Telone C-17 CA shall be of type appropriate for use under the pressure and vacuum conditions to be encountered.
- 2. External sight gauges shall be equipped with valves so that pipes to sight gauge can be shut off in case of breakage or leakage.
- The mechanical transfer system must be adequate to make necessary measurements of the 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 C-17 CA beyond a pump **must not exceed** the manufacturer's maximum pressure specification.

# **User Safety Requirements**

- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met:
  - a. Full-face respirators must be worn.
  - b. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
  - c. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
  - d. Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
  - e. Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
- 2. Never fumigate alone: It is imperative to always have an assistant and proper protective equipment in case of accidents.
- 3. Driver's Responsibilities: Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the mechanical precaution of the tractor and how to safely work with the tractor and driver while furnigating.
- 4. 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.
- 5. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each day's use.
- 6. Contact With Mouth: Never siphon this product by mouth or use mouth to blow out clogged limes; nozzles, etc.

age 6

7. Heat lilness 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 an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

If on skin or clothing: Immediately flush skin with plenty of water for at least 15 - 20 minutes while removing contaminated clothing and shoes. If water is not immediately available, remove excess chemical from skin with sorbent material such as towel or dry soil, then proceed at once to location where water is available and thoroughly wash contaminated skin with plenty of water. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Remove contact lenses, if present, after 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 and Disposal section. In case of spills properly dispose of contaminated materials.

Groundwater advisory: 1,3-dichloropropene is known to move through soil and under certain conditions has the potential to reach groundwater as a result of agricultural use. Application in areas where soils are permeable and groundwater is near the surface could result in ground water contamination. Do not apply within 100 feet of any well used for potable water. Do not apply in areas overlying karst geology.

### **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 the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

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Refer to label booklet for additional precautionary information and Directions for Use.

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.

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

EPA Reg. No. 62719-12

EPA Est.

\*Trademark of Dow AgroSciences LLC

Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

Soil Fungicide and Nematicide

**Net Contents XXX** 

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(Datapack cover):

# 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\* C-17 CA

A multi-purpose liquid fumigant for preplant treatment of soil to control nematodes, symphylans and certain soil borne diseases in cropland in California.

Not for use in greenhouses or other enclosed areas.

Active Ingredients:

1,3-dichloropropene	81.2%
chloropicrin	
Inert Ingredients	
Total Ingredients	

One gallon of Telone C-17 CA weighs about 10.6 lb. Contains 8.6 pounds of 1,3-dichloropropene and 1.75 pounds of chloropicrin per gallon.

# Keep Out of Reach of Children

# DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

### **Agricultural Use Requirements**

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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.

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EPA Reg. No. 62719-12

EPA Est.

<sup>\*</sup>Trademark of Dow AgroSciences LLC

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Dow AgroSciences LLC • Indianapolis, IN 46268 U.S.A.

# **Soil Fungicide and Nematicide**

**Net Contents XXX** 

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## **Precautionary Statements**

### Hazards to Humans and Domestic Animals

# **DANGER**

### Hazardous Liquid and Vapor

- Do not swallow any of this product. May be fatal if swallowed.
- Do not get in eyes. Corrosive. Causes Irreversible Eye Damage.
- Do not get on skin. May be fatal if absorbed through the skin. Causes skin burns. May cause aliergic 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 1,3dichloropropene, which has been determined to cause tumors in laboratory animals. Risks
  can be reduced by exactly following directions for use, precautionary statements, and by
  wearing the personal protective equipment specified in this labeling.
- This fumigant has the capacity to cause marked irritation to the upper respiratory tract. A strong lachrymator (tear-producing eye irritant). Low concentrations are capable of causing painful eye irritation. The effect may be so powerful that a person may become temporarily blinded and panic-stricken. That, in turn, may lead to accidents.

#### Air Concentration Level

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# Personal Protective Equipment (PPE)

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## 1. Handlers Performing Tasks with Liquid Contact Potential

Tasks with liquid contact potential are tasks performed outdoors or in a well-ventilated area. They include:

- Equipment calibration or adjustment
- · Equipment clean-up and repair
- Product sampling
- Any activity less than 6 feet from an unshielded pressurized hose containing this product
- Rinsate disposal
- Fumigant transfer
- Clean-up of small spills
- Preparing containers for aeration
- · Any other task not otherwise listed in

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(2), (3), or (4) below

Handlers performing tasks with liquid contact potential must wear:

- · Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate (EVAL) or viton
- · Chemical-resistant footwear plus socks
- · Chemical-resistant headgear for overhead exposure
- · Chemical-resistant apron
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G). See further respirator requirements in the User Safety Requirements section on this label.
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# 2a. Handlers Performing Tasks with No Liquid Contact Potential - Broadcast applications, in-bed applications or applications at the time of bedding except as in 2b.

Tasks with no liquid contact potential are tasks performed outdoors or in a well-ventilated area. These tasks include:

- Tractor driving
- Soil sealing
- Field activities on the day of application that do not disrupt the soil at the depth of liquid injection

Handlers performing tasks with no liquid contact potential must wear:

- · Loose fitting or well ventilated long-sleeved shirt and long pants
- Shoes and socks
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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). 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

# 2b. Handlers Performing Tasks with No Liquid Contact Potential - Pre-bed, Row product applications (e.g., Yetter rig)

Tasks with no liquid contact potential are tasks performed outdoors or in a well-ventilated area. These tasks include:

- Tractor driving
- Soil sealing
- Field activities on the day of application that do not disrupt the soil at the depth of liquid injection.

Handlers performing tasks with no liquid contact potential must wear:

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- · Loose fitting or well ventilated long-sleeved shirt and long pants
- Shoes and socks
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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)
- 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vapor-adsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

## 3. Handlers in Treated Area 1 to 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 pest control, application technique, or application efficacy
- Sampling air or soil for this product
- · Removing tarp or plastic film

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

Handlers in treated area 1 to 5 days after application must wear:

- Loose fitting or well ventilated long-sleeved shirt and long pants
- · Shoes and socks
- A face shield or safety glasses with brow and temple shields (do not wear chemical goggles)
- A half-face respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).
- If air concentrations of chloropicrin exceed 0.1 ppm, handlers must wear a 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). 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 S525 sections 7.1.5, 7.1.7, 7.2.3, and 9, or 2) the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides -- 40 CFR 170.240(d)(5). The cab must be equipped with a vaporadsorptive filter containing a minimum of 1000 grams activated charcoal. The filter must be changed after no more than 50 hours of application time. See further respirator requirements in the User Safety Requirements section on this label.
- In addition, the PPE specified in (1) for activities with direct liquid contact potential must be immediately available and must be worn if the handler is to perform any direct-contact activity with a potential for liquid contact

### 4. Handlers Exposed to High Concentrations

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

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

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 Supplied-air respirator with MSHA/NIOSH approval number prefix TC-19C or self-contained breathing apparatus (SCBA) with MSHA/NIOSH approval number prefix TC-13F. See further respirator requirements in the User Safety Requirements section 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 User's Guide section on Storage Tanks.

## **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 Telone C-17 CA for more information or these materials.

End-Row Spillage Control: The dispensing system must shut off 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 "Telone Soil Fumigants - A Guide to Application" manual. Contact your distributor for Telone C-17 CA 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 diaphragm 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 tubing.
- Do not use any method of end-row spillage control other than that stated on this label.
- An alternative to shutoff devices is a purge system which clears the line of all liquid. Consult your Dow AgroSciences 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, Telone C-17 CA 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 C-17 CA.

- 1. All hoses, piping, and tanks used in connection with Telone C-17 CA 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.

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5. The pressure in hoses used to move Telone C-17 CA beyond a pump **must not exceed** the manufacturer's maximum pressure specification.

## **User Safety Requirements**

- Respirator Requirements: When a respirator is required for use with this product, the following criteria must be met:
  - a. Full-face respirators must be worn.
  - b. Cartridges or canisters must be replaced daily or when odor or irritation from this product becomes apparent, whichever is sooner.
  - c. Respirators must be fit-tested and fit-checked using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910.134).
  - d. Respirator users must be trained using a program that conforms to OSHA's requirements (described in 29 CFR Part 1910,134).
  - e. Respirator users must be examined by a qualified medical practitioner to ensure physical ability to safely wear the style of respirator to be worn.
- 2. Never furnigate alone: It is imperative to always have an assistant and proper protective equipment in case of accidents.
- 3. Driver's Responsibilities: Drivers of application equipment must advise other workers of all precautions and procedures. In addition, drivers must instruct their helpers in the mechanical operation of the tractor and how to safely work with the tractor and driver while fumigating.
- 4. 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.
- 5. Clean and Maintain PPE: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each day's use.
- 6. Contact With Mouth: Never siphon this product by mouth or use mouth to blow out clogged lines, nozzles, etc.
- 7. 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 an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.

If on skin or clothing: Immediately flush skin with plenty of water for at least 15 - 20 minutes while removing contaminated clothing and shoes. If water is not immediately available, remove excess chemical from skin with sorbent material such as towel or dry soil, then proceed at once to location where water is available and thoroughly wash contaminated skin with plenty of water. Call a poison control center or doctor for treatment advice.

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Rembye contact lenses, if present, after 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 and Disposal section. In case of spills properly dispose of contaminated materials.

Groundwater advisory: 1,3-dichloropropene is known to move through soil and under certain conditions has the potential to reach groundwater as a result of agricultural use. Application in areas where soils are permeable and groundwater is near the surface could result in groundwater contamination. Do not apply within 100 feet of any well used for potable water. Do not apply in areas overlying karst geology.

## **Physical or Chemical Hazards**

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

### **Directions for Use**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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), restricted entry intervals, and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

#### **Entry Restriction:**

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

### Notification:

Notify workers of the application by warning them orally and by posting fumigant warning signs at a state (4) 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 furnigation, (4) "Telone C-17 CA Furnigant 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, ଟ୍ଟର ବ୍ୟବର ଜଣ ଓଡ଼ିଆ । ମନ୍ଦ୍ର ବ୍ୟବର ଜଣ ଓଡ଼ିଆ

# 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.

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## Storage and Disposal

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

**Pesticide 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.

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

Because Telone C-17 CA 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 C-17 CA 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 liquid. Orient container such that ventilation of bung-holes is not restricted. Allow containers to aerate for at least 14 days. Replace bungs prior to transport. After aeration, offer container to qualified reconditioner or dispose of as directed by State or local regulations.

Refillable Containers: Follow cleaning and handling directions in the Telone User's Guide.

# **General Information**

Telone C-17 CA is a multi-purpose liquid fumigant for preplant treatment of soil to control nematodes, symphylans and certain soil borne diseases in cropland in California.

Telone C-17 CA soil fungicide and nematicide may be applied as a preplant soil treatment to control or to aid in reducing the damaging effects of certain **soil borne diseases** [soil rot (soil pox) of sweet potatoes; Granville (bacterial) wilt, black root rot, black shank diseases of tobacco; Verticillium wilt of mint, pink root of onions, pod rot of peanuts]; **plant parasitic nematodes** [root-knot, root lesion, citrus, cyst formers (golden, sugar beet, soybean), burrowing, lance, reniform, ring, spiral, sting, pin, stubby root, stylet, dagger and certain others]; **symphylans** (garden centipedes) and **wireworms**.

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

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

### **General Use Precautions**

Soil furnigation using Telone C-17 CA should be conducted only according to directions and conditions of use described in this labeling.

Formulator use of Telone C-17 CA: Labeling for end use products containing Telone C-17 CA 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 soil fumigant product. Each formulator is responsible for obtaining EPA

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registration for each end use product. **Note:** A revised groundwater advisory in accordance with EPA agreement dated September 30, 1998, must be included on the label of any product reformulated from Telone C-17 CA after August 1, 1999.

Recontamination prevention: Telone C-17 CA will control pests that are present in the soil treatment zone at time of furnigation. It will not control pests that are introduced into soil after furnigation. To avoid reinfestation of treated soil do not use irrigation water, transplants, seed pieces, or equipment that could carry soil borne pests from infested land. Avoid contamination from moving infested soil onto treated beds through cultivation, movement of soil from below the treated zone, dumping contaminated tare soil in treated fields and soil contamination from equipment or crop remains. Clean equipment carefully before entering treated fields.

Do not use containers, pumps or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions Telone C-17 CA may be severely corrosive to such metals.

**Equipment Clean-up:** Because Telone C-17 CA 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 incorporation into field just treated or by other approved means. Never introduce rinsate or unused Telone C-17 CA into surface or underground water supplies.

Chemigation: Do not apply Telone C-17 CA through any type of irrigation system.

Fertility Interactions: Fumigation may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of fertilizer and fumigant are applied to soils that are either cold, wet, acid, or high in organic matter. To avoid injury to certain crops including red beets, carrots, corn, radishes, cole crops, legumes (beans), lettuce, onions, and sugar beets, fertilize as indicated by soil tests made after fumigation. To avoid ammonia injury or nitrate starvation (or both) to crops grown on high organic soils, do not use fertilizers containing ammonium salts. Use only fertilizers containing nitrates until after the crop is well established and the soil temperature is above 65°F. In mineral soils, do not apply more than 2/3 of the nitrogen requirements from fertilizers containing ammonium salts until the crop is well established and the soil temperature is above 65°F.

When using high rates of Telone C-17 CA as required by certain state nursery regulations, liming of highly acid soils before furnigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as citrus seedlings, *Cornus* sp., *Crataegus* sp., spruce, and vegetable crops such as cauliflower have shown evidence of phosphorus deficiency following furnigation. To avoid this possible effect, additional phosphate fertilizer (foliar applied) is recommended where experience indicates a deficiency may occur.

# **Application Directions**

### **Application Timing**

Telone C-17 CA 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 Telone C-17 CA 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°F and 80°F. In areag-where the soil temperature in the spring may not reach 40°F in time to allow application of Telone C-17 CA prior to get planting, late summer or early fall treatment is recommended.

Soil Moisture

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It is critical to manage soil moisture properly before fumigation. Plan fumigation for seasons, crop rotations, or irrigation schedules which leave moisture in the soil. For fumigation depths greater than 18 inches, the soil should be moist within a 16-inch radius upwards from the point of injection as determined by the feel method (see below). For all other applications, the soil must be moist from two inches below the soil surface to at least 12 inches deep. The amount of moisture needed in this zone will varv according to soil type. The surface 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 irrigation is not available and there is adequate soil moisture below six inches, it may 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 lightest textured (most sandy) areas 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 textured soils: however, if the soil moisture is too high, fumigant movement will be retarded and effectiveness of the treatment will be reduced. Previous and/or local experience with the soil to be treated or the crop to be planted can often serve as a guide to conditions that will be acceptable. If you do not know how to determine the soil moisture content of the area to be treated, consult your local extension service or soil conservation service specialist or pest control advisor (ag consultant) for assistance.

In general, no irrigation should immediately precede subsoiling or fumigation; however, when irrigation is available and surface soil moisture conditions are not likely to provide an adequate seal against fumigant loss, a very light sprinkler irrigation to wet the top 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 "feel 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 little 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 stick between the thumb and forefinger. Fine textured soils (clay loam, silty clay loam, sandy clay, silty clay, sandy clay loam and clay), should be pliable and not crumbly, but should not form a ribbon when compressed between the thumb and forefinger.

### Soil Preparation

The soil should be free of clods. Large clods can prevent effective soil sealing and reduce effectiveness of Telone C-17 CA. Plant residues should be thoroughly incorporated into the soil prior to treatment to avoid interfering with application. Undecomposed plant material may harbor pests that will not be controlled by fumigation. Little or no crop residue should be present on the soil surface. Crop residue that is present should lie flat to permit the soil to be sealed effectively. Compacted soil layers within the desired treatment zone should be fractured before or during application of the fumigant. Deviation from the above conditions may result in unsatisfactory results.

### **Placement of Fumigant**

Telone C-17 CA 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 4400 inches below the final soil surface is recommended. Deeper placement is recommended when furnigating soil to be planted to deep-rooted plants, such as perennial fruit and nut crops, or to control deeply distributed pests. For row application, the furnigant must be placed at least 12 inches from the nearest soil/air interface (e.g., furrow).

### **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 chisel equipment, use ripper-type converds 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.

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under Soil Preparation. Choose application equipment that allows the deepest application and best soil seal under existing conditions.

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

With chisel equipment, a furnigant shank spacing of 12 to 24 inches is recommended. The outlet spacing for this equipment may be up to 1 1/2 times the application depth but generally should be equal to the application depth and should not exceed the soil-shattering capability of the chisels. The maximum outlet spacing should not exceed 24 inches.

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

With Nobel (sweep) plow equipment, use an outlet spacing of 9-12 inches along the sweeps.

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

Row Application (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 Telone C-17 CA at twice the flow rates given in Table 1. When multiple chisels per plant row are used, space the chisels (furnigant outlets) 8 to 12 inches apart and use the flow rates given in Table 1 per outlet (see footnote 1, Table 2). Regardless of the number or spacing of chisels used, the furnigant must be placed at least 12 inches from the nearest soil/air interface (e.g., furrow). With certain deeper rooted crops such as potatoes and sugar beets, higher flow rates may be necessary to ensure adequate treatment of the zone of soil where primary root growth occurs; however, in no case should the amount of furnigant applied per acre exceed the maximum gallons per acre rates given in Table 1. To determine the amount (gallons) of Telone C-17 CA required per acre 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 Telone C-17 CA the soil must be "sealed" to prevent fumigant loss and ensure that an effective concentration of fumigant is maintained within the soil for a period of several days. **For broadcast treatment (flat fumigation)**, sealing can be accomplished with equipment that will uniformly mix the soil to a depth of 3 to 4 inches to effectively eliminate chisel or plow traces which can allow direct escape of the fumigant. A tandem disc or similar equipment may be used for this purpose. To maximize sealing, steps should also be taken to compact the soil surface to further retard the rate of fumigant loss by following with a ring roller, cultipacker or roller in combination with tillage equipment. Compaction of the soil surface alone does not effectively disrupt chisel or plow traces.

For row treatment, forming the beds at the time of application should be accomplished in a manner that places the furnigant at least 12 inches from the nearest 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 following with such equipment.

Sealing can also be improved by applying non-perforated plastic film, such as polyethylens, over the entire area or in strips. Use of a film to seal the soil surface does not eliminate the need to eliminate chical attraces prior to application of the plastic film.

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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 obtaining adequate sealing. Prior tillage should be adequate to eliminate clods and thoroughly mix crop residues into the soil.

### Soil Fumigation Interval

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

After the fumigation interval, to prevent phytotoxicity, allow the fumigant to dissipate completely before planting the crop. Under optimum 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 fumigant application. Use a knife-like chisel without turning the soil to reduce the possibility of recontaminating the treated soil. Dissipation is usually complete when the odor of Telone C-17 CA is no longer evident at the application depth. Seed may be used as a bioassay to determine if Telone C-17 CA is present in the soil at concentrations sufficient to cause plant injury. Do not plant if the odor of Telone C-17 CA is present within the zone of fumigation.

Buffer Zone: An application of Telone C-17 CA shall not be made within 100 feet of an occupied structure, such as a school, hospital, business or residence. No person shall be present at this structure at any time during the seven consecutive day period following application. This buffer zone does not apply to use on soils that will not experience an additional 1,3-D treatment for at least three years. For example, on soils to be planted with fruit trees, nut and nursery crops, perennial vines, hops, mint or pineapple. Note: Telone C-17 CA shall not be applied to soils more frequently than once each year.

# **Approved Uses**

### **Control of Nematodes**

Telone C-17 CA is recommended for control of nematodes, symphylans and wireworms in soils to be planted to vegetable crops, field crops, fruit and nut crops and nursery crops.

Table 1. Broadcast Application Rates and Use Information for Control of Nematodes, Symphylans<sup>11</sup>, and Certain Soil-Borne Diseases in Soils Planted to Crops Listed

		Application Rates <sup>†</sup>			
Crop	Soil Type	Broadcast Gallons/Acre	fi oz per/1000 ft/Outlet¹		
Vegetable Crops <sup>2</sup>	Mineral Muck or Peat	10.8 to 17.1 <sup>3</sup> 27.4 <sup>4</sup> to 30.0	31.8 to 50.2 80.6 to 88.2		
Field Crops <sup>5</sup>	Mineral Muck or Peat	10.8 to 17.1 <sup>3</sup> 21.6	31.8 to 50.2 63.5		
Fruit and Nut Crops <sup>6</sup>	Mineral, Muck, or Peat	32.4 to 42.0	95.3 to 123.5		
Nursery Crops	Mineral, Muck, or Peat	50.4 to 66.0	148.2 to 194.0		

<sup>&</sup>lt;sup>†</sup>Do not exceed specified maximum application rates.

<sup>&</sup>lt;sup>1</sup> Flow rates are based on a 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.

<sup>&</sup>lt;sup>2</sup> Row treatment is not recommended for potatoes in irrigated areas of western and northwestern states.

<sup>&</sup>lt;sup>3</sup> For cyst-forming nematodes increase dosage to 21.6 gallons/acre (63.5 fl oz/1000 ft row per chisel).

<sup>&</sup>lt;sup>4</sup> For muck soils containing less than 30% organic matter use 21.6 gallons/acre.

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To suppress wireworms use dosages recommended for nematodes in overall or broadcast treatments.

Table 2. Rate Conversion Chart for Various Row Spacings and Fumigant Flow Rates 1

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

fl 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
140	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	10.8	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

<sup>&</sup>lt;sup>1</sup> For row spacing of 24 inches or less, apply as a broadcast treatment. For treatments with row spacing greater than 24 inches, refer to Table 1 for the rate needed for a specific crop and/or soil 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 63.6 to 100.4 fl oz per 1000 ft of flow (note the broadcast rate is 31.8 to 50.2 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 63.6 to 100.4/2, or 31.8 to 50.2 fl oz 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:

<sup>&</sup>lt;sup>5</sup> For mint, apply 27.5 gallons per acre.

<sup>&</sup>lt;sup>6</sup> For burrowing nematode in citrus inject on 18-inch centers, 12 inches deep. Keep free of plants susceptible to burrowing nematodes for 2 years before replanting to citrus.

<sup>&</sup>lt;sup>††</sup> **Note:** To control symphylans (garden centipedes) use only overall at 21.4 or more gallons per acre, and apply during late summer or early fall when the soil is warm.

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fl oz/1000 ft of row  
row spacing (inches) 
$$x = 4.08^{\dagger}$$
 = gallons per acre

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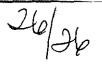
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Dow AgroSciences LLC 9330 Zionsville Road Indianapolis, IN 46268-1054



308/2E July 9, 2003



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TELONE C-17 (A.I. 1,3-DICHLOROPROPENE, CHLOROPICRIN) EPA REGISTRATION NUMBER: 62719-12 NOTIFICATION OF ALTERNATE BRAND NAME PER PR NOTICE 98-10

Per PR Notice 98-10, Dow AgroSciences is notifying the EPA of an alternate brand name for Telone\* C-17 soil fungicide and nematicide. The alternate brand name is Telone C-17 CA soil fungicide and nematicide. The following changes are being made via this notification action:

- 1. Notification of alternate brand name "Telone C-17 CA."
- 2. Added "in California" to end of sale copy statement "A multi-purpose liquid furnigant for preplant treatment of soil to control nematodes, symphylans and certain soil borne diseases in cropland in California.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### **Contents of Submission**

- Transmittal document (this letter)
- Application for Pesticide, EPA Form 8570-1
- Label entitled Telone C-17 CA (Q1A / Telone C-17 CA / ABN Notification / 07-09-03)
   (23 Pages plus Registration Notes) (5 Copies)

If you require further information, please contact Cindy Loy, Registration Specialist at (317) 337-4655 or Amy Hudson, Registration Assistant for this product, at (317) 337-3967.

Sincerely,

Bruce A. Houtman Regulatory Leader

Regulatory Success - Americas

(317) 337-3376

(317) 337-4649 (FAX)

BAH/akh Enclosures

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