

(Container)



# Telone\* C-17

## Liquid Soil Fungicide and Nematicide

Containing 1,3-dichloropropene and chloropicrin.

AGRICULTURAL

READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

GUARANTEE:	1,3-dichloropropene	81.2%
	chloropicrin	16.5%

REGISTRATION NO. 16324 PEST CONTROL PRODUCTS ACT

**DANGER**  **POISON**

**HAZARDOUS VAPOUR AND LIQUID  
MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED  
CAUSES BURNS OF SKIN AND EYES  
MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE**

NET CONTENTS: 200 L

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

\*Trademark of Dow AgroSciences LLC

**PRECAUTIONS - DANGER  
HAZARDOUS VAPOUR AND LIQUID  
MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN OR SWALLOWED  
CAUSES BURNS OF SKIN AND EYES  
MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE  
KEEP OUT OF REACH OF CHILDREN  
DO NOT APPLY BY AIR**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at [www.croplife.ca](http://www.croplife.ca).

Preliminary laboratory rodent studies suggest that an active ingredient in Telone C-17 Liquid Soil Fungicide and Nematicide, 1,3-dichloropropene, may present health risks to applicators. All users are advised to contact CANUTEC at 613-996-6666 for medical information and the clean-up of spills. DO NOT attempt to clean up a major spill. DO NOT attempt to clean up any spill if you do not have the proper protective equipment.

For transportation emergencies, call 780-498-9821 (ERAP 2-1516).

Do not get in eyes, on skin or on clothing. Wear eye and skin protection necessary to prevent contact when handling this material. Do not breathe vapour. Wash thoroughly before eating, drinking, smoking or using the toilet. Use only with adequate ventilation. If protective gear such as boots or gloves become contaminated, immediately wash with soap and water. Never wear protective gear having the odour of Telone C-17 Liquid Soil Fungicide and Nematicide. Aerate and wash all protective gear thoroughly after use until all odour is gone.

See Booklet for further instructions on USE PRECAUTIONS.

#### **PHYSICAL OR CHEMICAL HAZARDS**

**COMBUSTIBLE.** Do not use or store near heat or open flame. Do not cut or weld container.

#### **FIRST AID**

**Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.**

**If swallowed:** Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

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

### **TOXICOLOGICAL INFORMATION**

**Eyes:** May cause corneal injury or burn. Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Consult ophthalmologist.

**Skin:** May cause moderate irritation. Treat as any contact dermatitis. If burn present, treat as any thermal burn. May be absorbed in acutely toxic amounts.

**Respiratory:** May cause severe irritation. Administer oxygen if available. Bronchodilators, expectorants and antitussives may be of help. Symptoms may be delayed by a few hours.

**Oral:** Toxic by ingestion. May cause nausea or vomiting. May cause abdominal cramps and/or diarrhea.

**Systemic:** May cause liver and kidney damage. Anesthetic or narcotic effect may occur. No specific antidote. Treatment based on the sound judgment of the physician and the individual reactions of the patient.

### **AGRICULTURAL CHEMICAL**

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

### **ENVIRONMENTAL HAZARDS**

This product is known to move through soil and under certain conditions has the potential to reach ground water as a result of agricultural use. DO NOT apply in areas where soils are highly permeable and ground water is near the surface or in karst geology (i.e., area where aquifers and sink holes are abundant), as this could result in ground water contamination.

DO NOT apply within 31 m of any well that is used for potable water

Toxic to aquatic organisms. To avoid injury to fish and other wildlife do not spill or apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands) or estuarine/marine habitats.

DO NOT contaminate irrigation or drinking water supplies by cleaning of equipment or disposal of wastes.

### **DRUM STORAGE**

Store tightly closed drums in a cool place away from dwellings. In outside storage, store drums on their sides to avoid accumulation of rain water in the top or bottom of the recessed areas. Do not store near seeds, plants, fertilizers or other pesticide chemicals. Do not contaminate food, feedstuffs or domestic water supplies.

### **DRUM DISPOSAL**

1. Empty disposable shipping containers as completely as possible.
2. Rinse thoroughly with water and dispose of rinsate by incorporation in field just treated.
3. Aerate empty containers with bung removed out of doors to permit aeration of residual chemical.
4. After aeration offer containers to qualified reconditioner. Contact supplier for a listing of qualified reconditioners.
5. Never weld or apply a torch or other source of heat to empty containers. Telone C-17 Liquid Soil Fungicide and Nematicide and its vapours can be flammable or explosive under these conditions.
6. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

(Booklet)



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### **DRUM STORAGE**

Store tightly closed drums in a cool place away from dwellings. In outside storage, store drums on their sides to avoid accumulation of rain water in the top or bottom of the recessed areas. Do not store near seeds, plants, fertilizers or other pesticide chemicals. Do not contaminate food, feedstuffs or domestic water supplies.

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5. Never weld or apply a torch or other source of heat to empty containers. Telone C-17 Liquid Soil Fungicide and Nematicide and its vapours can be flammable or explosive under these conditions.
6. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **ON-FARM BULK TANK CLEANING AND MAINTENANCE**

The cleaning of tanks used to store Telone C-17 Liquid Soil Fungicide and Nematicide products can be performed safely provided that the proper procedures and precautions are followed. If these procedures and precautions are not followed, injury and/or property damage may result. Do not attempt to clean tanks which have been used to store the product unless you have read and understood the USE PRECAUTIONS section and have agreed to follow all procedures accurately. Become familiar with the physical, toxicological and flammability characteristics of Telone C-17 Liquid Soil Fungicide and Nematicide before you begin any work with Telone C-17 Liquid Soil Fungicide and Nematicide. If you have any questions, contact Dow AgroSciences Canada Inc. or the distributor before proceeding.

It is essential that the proper protective gear should be worn at all times when handling soil fumigants. See USE PRECAUTIONS section on the label for appropriate clothing and respiratory equipment.

#### **Instructions**

1. To be completely effective bulk tank cleaning and maintenance should be done as soon after fumigation as possible or as soon as the tank is emptied.
2. Contact the distributor about the removal and repurchasing of unused product.
3. If product is not removed by the distributor, using an approved pump (one which is not made of aluminum, magnesium or their alloys as under certain conditions Telone C-17 Liquid Soil Fungicide and Nematicide may be severely corrosive to such metals), empty any Telone C-17 Liquid Soil Fungicide and Nematicide product remaining in the bulk tank into a clean Telone C-17 Liquid Soil Fungicide and Nematicide drum. Contact the distributor about obtaining a clean Telone C-17 Liquid Soil Fungicide and Nematicide drum. Ensure the Telone C-17 Liquid Soil Fungicide and Nematicide drum is tightly closed and properly labelled. Store the containers upright in a cool place inaccessible to animals or unsuspecting humans such as children. Do not store Telone C-17 Liquid Soil Fungicide and Nematicide products near feed or foodstuffs, seeds, fertilizers or plants. Do not store Telone C-17 Liquid Soil Fungicide and Nematicide or any other pesticide in empty food or beverage containers. Do not store Telone C-17 Liquid Soil Fungicide and Nematicide products in containers made of aluminum, magnesium, alloys of these metals or other reactive metals. Do not weld or apply a torch or other source of heat to Telone C-17 Liquid Soil Fungicide and Nematicide drums or bulk tanks. Telone C-17 Liquid Soil Fungicide and Nematicide and its fumes can be flammable or explosive under these conditions.
4. Inspect the bulk tank for any Telone C-17 Liquid Soil Fungicide and Nematicide residues, other debris or contaminants. If residue is present, rinse the tank thoroughly with water. Dispose of washing (rinsate) by incorporation into field just treated using application techniques and use rates listed on the product label.
5. Allow the bulk tank to properly aerate by leaving the cap off for several hours.

### **ON-FARM BULK TANK STORAGE**

1. Store empty tank in a safe area out of direct sunlight for use the following season. Outdoor storage of bulk tanks is not recommended. Outdoor storage will subject the bulk tank and its label to deterioration if they are not protected from the elements (particularly rain and sunlight).
2. Do not use the bulk tank to store anything other than Telone C-17 Liquid Soil Fungicide and Nematicide.
3. For the report of damage to, maintenance of and/or removal of the on-farm storage tank contact your Telone C-17 Liquid Soil Fungicide and Nematicide distributor or Dow AgroSciences Canada Inc.

## **DIRECTIONS FOR USE**

### **GENERAL INFORMATION**

Apply Telone C-17 Liquid Soil Fungicide and Nematicide as a preplanting soil treatment to control certain plant parasitic nematodes such as root-knot and meadow (lesion) nematodes and to control or aid in reducing the damaging effects of black root rot in land to be planted to tobacco.

Telone C-17 Liquid Soil Fungicide and Nematicide may also be used as a preplanting treatment to control root-knot, meadow (lesion), sugar beet and certain other nematodes and to control or to aid in reducing the damaging effects of certain soilborne diseases in land to be planted to crops such as beans, sugar beets, carrots, celery, broccoli, Brussels sprouts, cabbage, cauliflower, radish, mustard, turnip, corn, cucurbits (cantaloupe, cucumber, honeydew, watermelon and pumpkin), lettuce, onions, parsnips, peas, peppers, spinach, white potatoes, sweet potatoes, tomatoes, grapes, ornamental and forest nursery crops and high value field crops such as floral crops, tobacco, strawberries, raspberries and deciduous orchard planting sites.

Fumigate land to be planted to the crops listed by applying Telone C-17 Liquid Soil Fungicide and Nematicide under the conditions and at the rates recommended under Precautions, Directions for Application and Planting, Dosage Recommendations, Use Precautions and First Aid.

### **DIRECTIONS FOR APPLICATION AND PLANTING**

DO NOT apply within 31 m of an occupied structure.

#### **When to Treat**

Apply whenever soil conditions are suitable in spring or fall. Telone C-17 Liquid Soil Fungicide and Nematicide gives best results when conditions permit rapid diffusion of the fumigant through the soil and the soil surface can be sealed to prevent excessive fumigant loss during the exposure period. At the time of application the soil should be in good seed bed condition, free of clods and undecomposed plant material with the soil moisture at about 1/2 of field capacity. Soil temperature should be between 5°C and 27°C at 20 cm depth.

#### **Application**

Telone C-17 Liquid Soil Fungicide and Nematicide may be applied either as an overall (broadcast) or row treatment using suitable equipment that will ensure placement of the fumigant at least 25 to 30 cm below the final soil surface. For overall application use either plow-sole or chisel equipment with the chisels placed 30 cm apart. Application may be made in the same direction or at an angle to the direction of the planting row as is convenient. For row application, chisel equipment is preferable, however, plow-sole applications may be satisfactory, particularly in the spring. Fall applied rows must be clearly marked by ridging during fumigation or by staking several reference rows at row ends.

#### **Engineering Controls Requirements**

**Mechanical Transfer System:** A closed-loading mechanical transfer system must be used to transfer the material.

**End-Row Spillage Control:** The dispensing system must shut off the feed stream when chisels are raised out of the ground.

- 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.
- Alternate end-row spillage devices or methods such as, but not limited to, micro-bore restricted flow tubing or purge systems may be used if they provide equal or superior control versus check valves.



### Sealing

Immediately after application, compact the soil surface to prevent excessive fumigant loss. After chisel application, use a roller, cultipacker or similar sealing device. After plow-sole application, disk the land and then compact it by floating or rolling. Sealing after row application can be accomplished by the tractor wheel, by ridging or by hilling so that the fumigant will be 35 to 40 cm below the top of the bed. When fumigating ridged rows, seal in the fumigant with ring rollers, press sealers or by re-ridging.

### Exposure Period

After application and sealing, leave the soil undisturbed for 7 to 14 days. A longer exposure period will be required if the soil becomes excessively cold or wet during the exposure period.

### Aeration and Preparation of Soil Before Planting

At the end of the exposure period allow the soil to aerate completely before planting the crop. Aeration is usually complete when the odour of Telone C-17 Liquid Soil Fungicide and Nematicide is no longer evident. Under optimum soil and weather conditions allow 1 week of aeration time for each 100 L of Telone C-17 Liquid Soil Fungicide and Nematicide applied per hectare. To hasten aeration, especially if heavy rains or low temperatures occur during the exposure period, work the soil to the depth of the treatment zone. After row treatment, use a knife-like chisel in the bed without turning the soil, thus reducing possible recontamination of the treated soil. To hasten aeration after overall treatment, plow or deep cultivate to the depth of the treatment zone. This is especially desirable after fall fumigation of heavy soils.

## DOSAGE RECOMMENDATIONS

**Table 1: Tobacco**

Application	Nematodes and Black Root Rot	Problem Fields, Cold Bottom Soils or Repeat Cropping
broadcast	150-180 L/ha	180-187 L/ha
row	75-100 L/ha	90-100 L/ha

**NOTE:** Tobacco after tobacco and the use of susceptible varieties can lead to an increased risk of black root rot problems. The higher rate is recommended for heavier soils. Check with government authorities for advice on fumigant and fertilizer rates for your farm. Fertilizer products should contain at least 1/4 of the total nitrogen as nitrate whether applied broadcast before, at or after transplanting. Fumigation may alter fertilizer uptake.

**Table 2: Recommended Rates**

Crop	Type of Treatment	Soil Type	Rate (L/ha)
floral crops, high value field and vegetable crops, cucurbits including cantaloupes and melons	overall	mineral	160
		muck	380
	100 cm row	mineral	65
		muck	120
cane and vine fruits including raspberries and strawberries	overall	mineral	200-380*
deciduous orchards and grapes	overall	mineral	280
turf areas and plant beds (forest and nursery crops)	overall		280

\* Use the higher rate of application for repeat cropping or for control of soilborne disease such as *Verticillium* wilt.

## **USE PRECAUTIONS**

### **1) Workers Performing Direct Contact Tasks**

Direct contact tasks are tasks performed outdoors or in well-ventilated areas and include:

- any activity closer than 2m from an unshielded pressurized hose containing this product;
- equipment calibration, clean-up and repair;
- product sampling;
- removal of a containment tarp or plastic film;
- rinsate disposal;
- preparation of containers for aeration;
- fumigant transfer;
- on-farm bulk tank cleaning and maintenance;
- clean-up of a minor spill.

Workers performing direct-contact tasks must wear:

- coveralls over normal work clothing;
- chemical-resistant apron;
- chemical-resistant gloves;
- chemical-resistant footwear and socks;
- chemical-resistant headgear for overhead exposure;
- a full face respirator with either a NIOSH/MSHA - approved cartridge to remove organic vapours with a prefilter approved for pesticides or a NIOSH/MSHA - approved canister for pesticides.

### **2) Workers in Enclosed Cabs**

Workers in enclosed cabs (with windows closed and filtered air) must wear:

- coveralls,
- shoes and socks;
- a full-face respirator with either a NIOSHA/MSHA-approved cartridge to remove organic vapours with a prefilter approved for pesticides or NIOSH/MSHA-approved canister for pesticides.
- In addition, the protective equipment specified in the "Direct Contact" task section above (respirator, chemical-resistant gloves, and footwear) must be available in the cab, and must be worn if the worker leaves the cab to perform any direct-contact activity.
- A respirator is not required if occupants are within an enclosed cab equipped with a vapour-adsorptive filter (activated charcoal).

### **3) Applicators Outside an Enclosed Cab**

Applicators applying Telone C-17 Liquid Soil Fungicide and Nematicide (or sealing the soil following application of Telone C-17 Liquid Soil Fungicide and Nematicide) who are not inside a closed cab tractor with air filtration must wear:

- coveralls over normal work clothing;
- chemical-resistant gloves;
- chemical-resistant footwear and socks;
- chemical-resistant headgear for overhead exposure
- a full-face respirator with either a NIOSHA/MSHA-approved cartridge to remove organic vapours with a prefilter approved for pesticides or NIOSH/MSHA-approved canister for pesticides.

#### **4) Workers in Treated Areas Within 5 days After Application**

Only the following tasks are permitted within 5 days after the application is complete:

- assessing/adjusting the soil seal;
- Assessing pest control or application efficacy;
- sampling air or soil for this product.
- All other tasks are prohibited within the 5 day interval.

Unless in a closed cab tractor, all workers performing the above tasks within 5 days after application must wear:

- coveralls over normal work clothing;
- chemical-resistant gloves;
- chemical-resistant footwear and socks;
- a full face respirator with either a NIOSH/MSA - approved cartridge to remove organic vapours with a prefilter approved for pesticides **or** a NIOSH/MSHA - approved canister for pesticides.

#### **5) Handlers Exposed to High Concentrations**

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

- chemical-resistant suit
- chemical-resistant gloves
- chemical-resistant footwear plus socks
- chemical-resistant headgear
- a full face respirator with either a NIOSHA/MSHA-approved cartridge to remove organic vapours with a prefilter approved for pesticides or a NIOSH/MSHA-approved canister for pesticides

**PERSONAL PROTECTIVE EQUIPMENT:** Where chemical-resistant materials are required, leather, canvas and cotton materials offer no protection and must not be worn when contact with this product is possible.

**RESPIRATOR REQUIREMENTS:** When a respirator is required for use with this product, the following criteria must be met:

- a full face respirator must be worn;
- the respirator must fit properly;
- the cartridges or canisters must be changed daily, or sooner if the odour of Telone C-17 Liquid Soil Fungicide and Nematicide is detected.

#### **SAFETY RECOMMENDATIONS:**

- Never use the mouth to siphon Telone C-17 Liquid Soil Fungicide and Nematicide from containers or to blow out clogged lines, nozzles, etc.
- Users should:
  - Wash hands before eating, drinking, smoking or using the toilet.
  - Remove clothing immediately if pesticide gets inside. Then wash contaminated skin thoroughly and put on clean clothing.
  - Remove protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
  - Aerate clothing thoroughly, then wash separately from household laundry in detergent and hot water before re-use.
  - Dispose of clothing or shoes if heavily contaminated.
- DO NOT enter the treated area within 5 days after treatment (except to perform the tasks described in task category no. 4 above, wearing the proper protective equipment).

**IMPORTANT - NOTE CAREFULLY:** 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 ammonia injury or nitrate starvation, or both, to crops on high organic soils do not use fertilizers containing nitrates until after the crop is well established and the soil temperature is above 18°C.

Certain crops are tolerant of ammonia and the above rule does not apply to them. When using high rates of Telone C-17 Liquid Soil Fungicide and Nematicide as required by certain provincial nursery regulations, liming of highly acid soils before fumigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as *Cornus* sp., *Crataegus* sp., spruce and vegetable crops such as cauliflower have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect it is suggested that additional phosphate fertilizer be used on soils where experience indicates a deficiency may occur.

Check with local governmental authorities for fertilizer practices following fumigation as soil fumigation may alter fertilizer uptake. Fertilize as indicated by soil tests made after fumigation.

**ATTENTION:** To avoid reinfestation of treated soil do not use irrigation water, transplants, tools, seed pieces or crop remains that could carry soilborne pests from infested land. Clean equipment carefully before using.

#### **WARNING**

##### **Application Equipment Cleaning**

Since Telone C-17 Liquid Soil Fungicide and Nematicide is corrosive under certain conditions, flush all applicators with fuel oil or kerosene immediately after use. DO NOT USE WATER. Dispose of rinsate by incorporation into field just treated. Do not use containers or other handling equipment made of aluminum, magnesium, zinc, cadmium or their alloys as under certain conditions Telone C-17 Liquid Soil Fungicide and Nematicide may be severely corrosive to such metals.

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