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REG. # 464-379

# Specimen Label

## RESTRICTED USE PESTICIDE

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

# TELONE\* C-17

## Soil Fungicide and Nematicide

A Multi-Purpose, Preplant Soil Fumigant for Use to Control Nematodes, Symphylans, Wireworms and Certain Soil Borne Diseases in Crop Lands

Active Ingredient(s):	
1,3-Dichloropropene .....	74.0%
Chloropicrin .....	16.5%
Inert Ingredients .....	9.5%

Contains 7.82 pounds of 1,3-dichloropropene and 1.79 pounds of chloropicrin per gallon.

E.P.A. Registration No. 464-379

E.P.A. Est. 464-CA-1(WP); 464-AR-1(AM); 464-MI-1(MM).

Superscript used corresponds to letter in Lot No.

**KEEP OUT OF REACH OF CHILDREN**

**DANGER  POISON**

**PELIGRO:**

**PRECAUCION AL USUARIO:**

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

### PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals**  
**HAZARDOUS LIQUID AND VAPOR • MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED • CAUSES BURNS OF SKIN OR EYES • MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE • VAPOR EXTREMELY IRRITATING**

**Do Not Breathe Vapor • Do Not Get In Eyes, On Skin, On Clothing • Do Not Take Internally • Use Only With Adequate Ventilation • Wear Eye and Skin Protection Necessary to Prevent Contact When Handling TELONE C-17 • Wash Thoroughly After Handling and Before Eating or Smoking • If protective gear, such as boots or gloves, becomes contaminated, immediately wash with soap and water. Never wear protective gear having the odor of 1,3-dichloropropene. • Aerate and wash all protective gear thoroughly after use until all odor is gone. Render unusable and dispose of contaminated leather goods, including shoes. • SEE FURTHER INSTRUCTIONS UNDER HANDLING PRECAUTIONS SECTION**

**STATEMENT OF PRACTICAL TREATMENT: IF INHALED, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.**

**IF ON SKIN**, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If water 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 physician.  
**IF IN EYES**, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.  
**IF SWALLOWED**, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

### Physical or Chemical Hazards

**COMBUSTIBLE • Do Not Use, Pour, Spill, or Store Near Heat or Open Flame • Do Not Cut or Weld Container.**

### Environmental Hazards

To avoid injury to fish and other wildlife, do not spill or empty into streams, ponds, or any other bodies of water. • Do not contaminate water by cleaning of equipment or disposal of wastes.

**NOTICE:** Read the entire label. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under the Limit of Warranty and Liability.

### IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

### AGRICULTURAL CHEMICAL

**Do Not Ship or Store with Food, Feeds, Drugs, or Clothing**

**TELONE\* C-17**

ACCEPTED WITH COMMENTS  
EPA Letter Dated:

SEP 3 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the sale, use, or distribution under EPA Reg. No. 464-379

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

## HANDLING PRECAUTIONS

**DO NOT INHALE VAPORS:** NIOSH- or MSHA-approved respiratory protection should be worn when TELONE C-17 liquid soil fumigant is exposed to the atmosphere or when conducting operations which vent to the atmosphere. A NIOSH- or MSHA-approved full-face respirator shall be used during small spills, repairs, calibrations, transfers, sampling and when working in poorly ventilated areas. When in use canisters or cartridges shall be replaced after each half hour of use or sooner if specified by manufacturer or at first sign of odor breakthrough, which ever comes first. NIOSH-approved cartridges, such as a Welsh 7400-IL, will be adequate for short-term situations such as listed above.

Where very high concentrations of vapors might be expected (such as large spills in poorly ventilated areas) a self-contained or air-supplied respirator should be used.

**DO NOT GET ON SKIN:** When handling or working with TELONE C-17, wear clean body covering including gloves and heavy footwear. Immediately remove contaminated coverings. Aerate and wash all protective clothing and gear thoroughly after use.

There are no protective clothing materials that are completely impervious. Rubber, vinyl protective gear, thin layers of polyethylene (minimum 1 mil), give short-term protection and shall be immediately discarded upon contamination. Heavy (3+ mil) polyethylene, rubber, neoprene provide longer term protection. Leather gives no protection. If gear becomes contaminated, immediately wash with soap and water. Never wear protective gear having odor of TELONE C-17. Wash and aerate all protective gear thoroughly after use until all odor is gone.

**DO NOT GET IN EYES:** Wear eye protection such as full-face respirator when handling TELONE C-17.

**DO NOT SWALLOW:** Do not use the mouth to siphon TELONE C-17 from containers or to blow out clogged lines, nozzles, etc.

## STORAGE, SHIPMENT AND DISPOSAL

**STORAGE:** Store in tightly-closed original container in a cool place away from dwellings. Do not allow contamination of seeds, plants, fertilizers, or other pesticide chemicals. Do not contaminate food, feedstuffs, drugs, or domestic water supplies. In outside storage, store drums on sides to avoid accumulation of rain water in top or bottom recessed areas.

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

**DISPOSAL:** Triple rinse containers and dispose of rinsate in field just treated. After aeration offer containers to qualified reconditioner or destroy by puncturing or crushing and dispose of in an approved sanitary landfill or bury in the user's cropland or dispose of by other procedures approved by state and local authorities. Do not pollute surface or underground water supplies.

## GENERAL INFORMATION

Apply TELONE C-17 soil fungicide and nematicide as a preplanting 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 whitepotatoes and mint, pink root of onions, pod rot of peanuts]; plant parasitic nematodes [root-knot, meadow (lesion), citrus, cyst formers (golden, sugar beet, soybean), burrowing, ring, spiral, sting, pin, stubby root, stylet, dagger and certain others]; symphylians (garden centipedes) and wireworms. Treat land to be planted to the crops listed below by applying TELONE C-17

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under the conditions and at the rates recommended under DIRECTIONS FOR USE. Read this entire label before using TELONE C-17.

**Vegetable Crops:** asparagus, beans, beets, blackeyed peas, broccoli, brussels sprouts, cabbage, cantaloupe, carrots, cauliflower, celery, collards, corn, cowpeas, cucumbers, egg plant, endive, garlic, horseradish, kale, kohlrabi, leeks, lettuce, melons, mustard greens, okra, onions, parsnips, peas, peppers, pimientos, potatoes, pumpkins, radishes, rutabaga, salsify, shallots, spinach, squash (summer), squash (winter), sweet potatoes, swiss chard, tomatoes, turnips, watermelons.

**Field Crops:** alfalfa, barley, birdsfoot trefoil, buckwheat, clover, corn, cotton, flax, grasses, hops, lespedeza, millet, milo, mint, oats, peanuts, popcorn, rice, rye, safflower, sorghum, soybeans, sugar beets, sugar cane, tobacco, vetch, wheat.

**Citrus Fruit Tree Planting Sites:** grapefruit, kumquats, lemons, limes, oranges, tangerines, tangelos.

**Deciduous Fruit and Nut-Tree Planting Sites:** almonds, apples, apricots, cashew nuts, cherries, chestnuts, dates, figs, filberts, hazelnuts, hickory nuts, nectarines, olives, peaches, pears, pecans, persimmons, pineapple, plums, pomegranates, prunes, quince, walnuts.

**Brush and Vine Planting Sites:** blackberries, boysenberries, cranberries, currants, dewberries, gooseberries, grapes, huckleberries, loganberries, raspberries, strawberries, youngberries.

**Nursery Crops including floral plants, ornamentals, shrubs and bushes, forest shade, fruit and nut trees and vine and bramble fruits of all types.**

## APPLICATION DIRECTIONS

**When to Treat:** Apply TELONE C-17 whenever soil conditions are suitable but preferably in the late summer or fall or in the spring up to 2 or 3 weeks before planting the crop. Land to be planted to early spring crops, especially crops to be set out, such as celery, tomatoes, nursery and orchard stock, should be treated only in the late summer or early fall. For best results on annual crops use the treatment once each year.

**Soil Preparation:** At time of application the soil should be in good seed bed condition, free of clods and undecomposed plant material and with soil moisture at about one-half of field capacity. Soil temperature should be 40° to 80° F at the depth of injection. If undecomposed plant debris is present, it should be plowed down and allowed to decompose before applying TELONE C-17. Deep tillage, 12 to 18 inches, often improves results. NOTE: Do not use TELONE C-17 in extremely heavy clay or muck soils.

**Application:** TELONE C-17 may be applied as a row or as an overall (broadcast) treatment using a chisel-type applicator to inject the fumigant below the soil surface. For row treatment spring application is preferable. Fall treatment should be made only when land can be fumigated and bedded for early spring planting. Use a single chisel per row to treat the soil directly beneath the area where the crop will be planted. Inject the material at a depth of 10 to 12 inches below the soil surface. Immediately after application seal the soil by ridging or bedding the fumigated row area with enough soil to bring the soil surface 14 to 16 inches above the point of injection. For overall (broadcast) treatment apply whenever soil conditions are suitable. Space applicator chisels 12 inches apart and inject the fumigant 10 to 12 inches below the soil surface. Immediately after application seal the soil by compacting the surface with a roller, cultipacker or similar soil sealing device. When overall treatment is made in late summer or early fall, the field may be planted to a fall cover crop to be plowed under before planting the spring crop.

**Rates to Use:** Consult the following Dosage and Use Recommendations tables for dosage and application details to control nematodes, symphylians, wireworms and certain soil borne diseases in crops listed.

**DOSAGE AND USE RECOMMENDATIONS  
to Control Nematodes, Symphylanst, and Wirewormst**

Crops (consult list of individual crops under General Information)	Type of Treatment	Soil Type	Dosage			
			Gallons Per Acre <sup>1</sup>	Fl. Oz./1000 Ft. Row Per Chisel		
<b>Shallow Rooted plants:</b>		Mineral	5.1 to 6.9	52.5 to 71		
Field Crops	Row (42") <sup>3</sup>					
Floral Crops		Muck or peat	10.3 to 13.7	106 to 141		
Grasses and Turf		Mineral	10.3 to 17.1 <sup>2</sup>	30.3 to 50.2		
Small Fruits	Overall (Broadcast)	Muck or Peat	27.4 <sup>3</sup> to 41.1	80.5 to 120.8		
Vegetables						
Ornamentals						
<b>Strawberries</b>	Overall	Mineral	27.4 to 41.1	80.5 to 120.8		
<b>Sugar Beets</b>	Row (42")		6	61.7		
Root Knot Nematode	Overall		12.8 to 17.1	37.6 to 50.2		
<b>Sugar Beet Nematode</b>	Row (42")	Mineral	10.3	106		
	Overall		12.8 to 21.4	37.6 to 62.9		
<b>Pineapple</b>	Row	Mineral	25.7 to 51.4	—		
<b>Citrus — Florida<sup>4</sup></b>	Overall	Mineral	34.2	100.5		
<b>Nursery and Field:</b>		<b>Overall: gallons Per Acre to Penetrate Various Depths</b>				
Citrus Fruit Trees		Mineral Soils	3 ft.	4 ft.	5 ft.	6 ft.
Deciduous Fruit Trees		Sand	17.1	23.9	30.8	37.6
Forest Trees		Sandy Loam	30.8	34.2	41.1	54.7
Grapes		Silt Loam	47.9	58.1	71.8	85.5
Nut Trees		Clay Loam	61.6	78.7	95.8	116.3
Ornamentals (deep rooted)						

<sup>1</sup> Use the higher rates in heavier soil.  
<sup>2</sup> For cyst-forming nematodes increase dosage to 21.4 gallons per acre (62.9 fl. oz./1000 ft. row per chisel).  
<sup>3</sup> For muck soils containing less than 30% organic matter use 21.4 gallons per acre.  
<sup>4</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>5</sup> Row treatment is not recommended for potatoes in irrigated areas of western and northwestern states.  
† 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. To control wireworms use dosages recommended for nematodes in overall or broadcast treatments.

**DOSAGE AND USE RECOMMENDATIONS  
to Control Soil Borne Disease†**

Crop	Type of Treatment	Dosage	
		Gallons Per Acre	Fl. Oz./1000 Ft. Row Per Chisel
Sweet Potatoes	Row (42")	8.5 to 10.5	88 <sup>1</sup> to 108 <sup>1</sup>
	Overall	24 to 27.5	70 to 81
Tobacco	Row (42")	8.5 to 10.5	88 <sup>1</sup> to 108 <sup>1</sup>
	Overall	24 to 27.5	70 to 81
Peanuts	Row (42")	2.5 to 5	26 <sup>1</sup> to 52 <sup>1</sup>
White Potatoes	Overall only	24 to 27.5	70 to 81
Mint	Overall only	24 to 27.5	70 to 81
Onions	Overall only	24 to 27.5	70 to 81

<sup>1</sup> Use the same flow rate per chisel for other single chisel row spacings. As the distance between rows increases, the gallons required per acre will decrease and vice versa.  
† NOTE: Consult General Information to determine diseases controlled in crops listed. Nematodes also will be controlled.

**Exposure Period:** After application and sealing, leave the soil undisturbed for 7 to 14 days. Cold, wet soil retards diffusion of TELONE C-17, requiring a longer exposure period.

**Aeration 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 odor of TELONE C-17 is no longer evident. Under optimum soil and weather conditions, allow one week of aeration time for each 10 gallons of TELONE C-17 applied per acre. When TELONE C-17 is used for treating deep-rooted tree and shrub planting sites, a 3 to 6 months aeration period should be allowed. 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.

**REENTRY:** Because certain states may require restrictive reentry intervals into fields treated with this product, consult your State Department of Agriculture for further information.

**Attention:** It is very important to avoid reinfestation of treated soil. Use only planting materials known to be free from disease and parasitic nematodes. It is good practice to cut sweet potato plants at or above the soil line and to use these "cut plants" for making field plantings. Do not use tools or crop residues that could carry soil borne pests from infested land to treated land.

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

**USE PRECAUTIONS**

**Important - Note Carefully:** The treatment 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 TELONE C-17 are applied to soils that are cold, wet, acid, or high in organic matter. To avoid injury to plant roots, fertilize as indicated by soil tests made after treatment. To avoid ammonia injury or nitrate starvation, or both, to crops on high organic soils do not use fertilizers containing ammonium salts and 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 soil temperature is above 65° F. Liming highly acid soils before treatment stimulates nitrification and reduces the possibility of ammonia and/or nitrite toxicity. Certain crops including cotton, sugarcane, and

(Insert 2)

pineapple are tolerant to ammonia and the above rule does not apply to them. Citrus seedlings, *Cornus sp.*, *Crataegus sp.*, spruce, vegetable crops such as cauliflower and certain other crops have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer be used on soils which tend to be deficient in this nutrient.

Under certain conditions TELONE C-17 soil fungicide and nematicide may be corrosive to application equipment; flush equipment with fuel oil or kerosene immediately after use. **DO NOT USE WATER. Do not use containers, pumps, or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions TELONE C-17 may be severely corrosive to such metals.**

**(B) WARRANTY LIMITATIONS AND DISCLAIMER**

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Limit of Warranty and Liability cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

**113.6 L/30 gal net**

\*Trademark of THE DOW CHEMICAL COMPANY  
85452-L6 G1284



**THE DOW CHEMICAL COMPANY**  
Midland, Michigan 48640 U.S.A.

SPECIMEN LABEL 86-1383 DATE CODE  
G1284  
REPLACES 86-1383 DATE CODE F781  
DISCARD PREVIOUS SPECIMEN LABELS

- REVISIONS INCLUDE:
- 1) ADDED WEIGHT PER GALLON
  - 2) REVISED DISPOSAL STATEMENTS
  - 3) REVISED WARRANTY LIMITATIONS AND DISCLAIMER
  - 4) ADDITION OF REENTRY STATEMENTS
  - 5) ADDED "PELIGRO"