

95.04.20

((PAMPHLET))

DowElanco (TM)

Telone* C-17-R

Liquid Soil Fungicide and Nematicide

Containing 1,3-dichloropropene and chloropicrin

AGRICULTURAL

DANGER POISON

CAUTION EXPLOSIVE

GUARANTEE: 1,3-dichloropropene.....78.3%
chloropicrin.....16.5%

READ THE LABEL BEFORE USING.

KEEP OUT OF REACH OF CHILDREN.

REGISTRATION NUMBER 16323

PEST CONTROL PRODUCTS ACT

NET CONTENTS: 416 L Traveler*

DowElanco Canada Inc.

17705 Leslie Street

Newmarket, Ontario

L3Y 3E3

(905) 836-0436

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.

Preliminary laboratory rodent studies suggest that the active ingredient in Telone C-17-R, 1,3-dichloropropene may present health risks to applicators. All users are advised to contact the Emergency Response Line (519)-339-3711) for medical information and the cleanup of spills. DO NOT attempt to clean up a spill.

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 after handling and before eating and smoking. 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-R. Aerate and wash all protective gear thoroughly after use until all odour is gone.

SEE FURTHER INSTRUCTIONS UNDER HANDLING PRECAUTIONS SECTION

PHYSICAL OR CHEMICAL HAZARDS

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

FIRST AID

The following emergency procedures should be followed until decontamination is complete, until a physician arrives, or until the person can be moved to a medical facility.

If on skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing. Call a physician if irritation persists. If water is not immediately available, remove excess chemical from skin with absorbent material such as a towel or dry soil. Then proceed at once to a location where water is available and thoroughly wash contaminated skin with plenty of water. Wash clothing before reuse.

If inhaled: Remove person to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

If in eyes: Irrigate with flowing water immediately and continuously for at least 15 minutes. Consult medical personnel.

If swallowed: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto. The buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

AGRICULTURAL CHEMICAL

DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS OR CLOTHING.

*Trademark of DowElanco
DowElanco Canada Inc is a licensed user.

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 judgement of the physician and the individual reactions of the patient.

ENVIRONMENTAL HAZARDS

To avoid injury to fish and other wildlife do not spill or empty Telone C-17-R into streams, ponds or other bodies of water.

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 and abundant), as this could result in ground water contamination.

GENERAL INFORMATION

Apply Telone C-17-R 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-R 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 soil borne diseases in land to be planted to crops such as beans, sugar beets, carrots, celery, broccoli,

Brussel sprouts, cabbage, cauliflower, radish, mustard, turnip, corn, cucurbits (cantaloupe, cucumber, honeydew, watermelon, and pumpkin), lettuce, onions, parsnips, peas, peppers, spinach, white potatoes, sweet potatoes, peppers, tomatoes, grapes, ornamental and forest nursery crops, and high value field crops such as floral crops, strawberries, raspberries, tobacco and deciduous orchard planting sites.

Fumigate land to be planted to the crops listed by applying Telone C-17-R under the conditions and at the rates recommended under PRECAUTIONS, DIRECTION FOR APPLICATION AND PLANTING, DOSAGE RECOMMENDATIONS, USE PRECAUTIONS AND FIRST AID.

DIRECTIONS FOR APPLICATION AND PLANTING

When to Treat

Apply whenever soil conditions are suitable in spring or fall. Telone C-17-R 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 one half of field capacity. Soil temperature should be between 5°C and 27°C at 20 cm depth.

Application

Telone C-17-R 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.

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, 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-R is no longer evident. Under optimum soil and weather conditions, allow one week of aeration time for each 100 L of Telone C-17-R 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

TOBACCO

	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 one quarter of the total nitrogen as nitrate, whether applied broadcast before, at, or after transplanting. Fumigation may alter fertilizer uptake.

Crop	Type of Treatment	Soil Type	Litres per Hectare

Floral crops, high value field & vegetable crops, cucurbits including cantaloupes & melons	overall	mineral	160
		muck	380
	100 cm	mineral	65
	row	muck	120
Cane & vine fruits including raspberries and strawberries	overall	mineral	200 to 380+
Deciduous orchards and grapes	overall	mineral	280
Turf areas & plant beds (forest & nursery crops)	overall		280
Greenhouse beds	2 litres per 100 m(2)		

+Use the higher rate of application for repeat cropping or for control of soil borne disease such as Verticillium wilt.

HANDLING PRECAUTIONS

DO NOT INHALE VAPOURS: NIOSH- or MSHA-approved respiratory protection must be worn when exposed to atmospheres which contain or are suspected of containing vapours of Telone C-17-R. A NIOSH- or MSHA-approved half-face respirator with chemical worker's goggles or full-face respirator must be used during application, repairs, calibrations, transfers, sampling, rinsate disposal, clean-up, any activity less than 2 metres from an unshielded pressurized hose containing C-17-R and when working in poorly ventilated areas. When in use canisters or cartridges must be replaced daily or sooner if specified by manufacturer or at first sign of odour breakthrough, whichever comes first. NIOSH-approved cartridges suitable for protection from organic vapour will be adequate for short-term situations such as listed above.

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

DO NOT GET ON SKIN: When handling or working with Telone C-17-R, wear clean body covering that has long sleeves and long pants and is constructed of a material resistant to Telone C-17-R including chemically resistant headgear (i.e. standard hardhat), 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. DO NOT wear leather outer garments as leather gives no protection and can not be decontaminated. Rubber, vinyl protective gear, thin layers of polyethylene (minimum 1 mil), give short-term protection and must be immediately discarded upon contamination. Heavy (3 + mil) polyethylene and neoprene provide longer term protection. If gear becomes contaminated, immediately wash with soap and water. Never wear protective gear having odour of Telone C-17-R. Wash and aerate all protective gear thoroughly after use until all odour is gone.

DO NOT GET IN EYES: Wear eye protection such as vapour tight chemical worker's goggles or full-face respirator when handling Telone C-17-R.

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

USE PRECAUTIONS

Do not enter the treated area within 72 hours after treatment unless heavy-duty synthetic footgear is worn. An approved half face or full face respirator equipped with organic vapour cartridges must be worn when the odour of Telone C-17-R can be detected.

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-R 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. and 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-R 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-R may be severely corrosive to such metals.

TRAVELER STORAGE

Store tightly closed containers outside in a cool place away from dwellings and normal work areas. Do not store near seeds, plants, fertilizers or other pesticide chemicals. Do not contaminate food, feedstuffs or domestic water supplies.

ON-FARM TRAVELER STORAGE

1. Store empty container in a safe area away from normal work areas and out of direct sunlight. Outdoor storage will subject the Traveler and its label to deterioration if they are not protected from the elements (particularly rain and sunlight).
2. For the report of damage to, maintenance of and/or removal of the Traveler contact your Telone distributor at (519) 842-8408.
3. Do not stack containers over 2 high full and 3 high empty.

TRAVELER DISPOSAL

1. Empty containers as completely as possible.
2. For information on disposal of unused product contact the manufacturer (emergency phone number 519-339-3711).
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