





ACCEPTED  
6023-35  
5-17-76

# TELONE\* II

## SOIL FUMIGANT

A Clean, Clear, Non-Clogging Liquid for Preplant Treatment of Crop Lands to Control Plant Parasitic Nematodes and Certain Other Soil Pests

**ACTIVE INGREDIENT:**  
1,3-Dichloropropene ..... 92%  
**INERT INGREDIENTS:** ..... 8%

### AGRICULTURAL CHEMICAL

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

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
**TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)**

### DIRECTIONS FOR USE

**WHEN TO TREAT:** Apply TELONE II either in the spring or fall, whenever soil type and conditions permit. For best results with annual crops, treat the soil each year. In northern states, late summer or early fall treatment (before October 1st) is best for land to be planted to early spring crops, especially transplanted crops such as celery, tomatoes, and nursery and ornamental stock. Early fall treatment permits planting a fall cover crop. **Note:** Treat muck soils only in the early fall, and plant a late as possible in the spring; treat fine textured clay soils only when they are near or at the wet re-plant. Do not use TELONE II to treat any type of soil when this could injure soil.

**SOIL PREPARATIONS:** TELONE II penetrates soil where conditions permit rapid diffusion of the fumigant through the soil and the soil surface. To avoid excessive fumigant loss during the exposure period, the soil should be moist and seed bed or 1 1/2" free of clods and undecomposed plant material. Moisture at about one half of field capacity and temperature between 40° and 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 II. Tillage deeper than 12 inches is necessary for good fumigant penetration in soils where a hard subsoil layer is present at plow depth. Where deep tillage is used, the tillage equipment may often be modified to simulate a dry apply the fumigant and then a second pass over the field twice.

**APPLICATION:** TELONE II may be applied either as an **overall (broadcast)** or **row treatment**, using suitable application equipment that will ensure placement of the fumigant at least 6 to 8 inches below the final soil surface. **For overall application:** Use either plow or subsoil equipment with the chisels spaced 12 inches apart. When the fumigant is injected at a depth of 12 inches or more, deeper spacing of the chisel spacing may be used. **For row application:** Use row application equipment with one or two chisels spaced 12 inches apart to treat only the row where the crop is to be planted. When only one chisel per row is used, adjust the fumigant flow rate to distribute about 1 1/2 gallons of fumigant per 1000 ft. row. When two chisels are used per row, apply at the same flow rate per chisel as for overall. In both cases, the amount of

**White Potatoes in Northwestern States:** Use TELONE II as a spring or preferably a fall treatment to control black scurf and for suppression of the damaging effects of Verticillium wilt in fields to be planted to white potatoes. Apply as an overall treatment according to the following directions:

Time of Treatment	Gallons per Acre	Fl. Oz. 1000 Ft. Row per Chisel
Spring	17 to 25	50 to 73
Fall	25 to 34	73 to 100

**Mint in Northwestern States:** Use 59 gallons of TELONE II per acre (173 fl. oz. 1000 ft. row per chisel) as an overall treatment in the spring or preferably in the fall to aid in the reduction of the damaging effects of Verticillium wilt in disease infested land to be used for mint production. After treatment allow at least 7 to 8 weeks or until the odor of the fumigant has left the soil before planting. Consult State Agricultural Experiment Station or State Extension Service Specialists for the use of other practices such as flaming the stubble, weed control, and cultural practices when using TELONE II as an aid to reducing damage caused by Verticillium wilt.

### USE PRECAUTIONS

**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 wet, acid, or high in organic matter. To avoid injury to plant roots, fertilize as indicated by soil tests made after fumigation. 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.

Certain crops, including cotton, sugarcane, and pineapple are tolerant to ammonia and the above rule does not apply to them. When using high rates of TELONE II as required by certain state nursery regulations, timing of highly acid soils before fumigation 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 fumigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer be used on soils where experience indicates a deficiency may occur.

**Attention:** To avoid re-infestation 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.

Since TELONE II soil fumigant is corrosive under certain conditions, flush all applicators 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 II may be severely corrosive to such metals.** Common protective clothing, such as rubber gloves and boots, etc., may be penetrated readily by this material. Polyethylene provides a good barrier. For field operations cover shoes and hands with polyethylene bags. Store TELONE II in tightly closed containers in a cool place away from sunlight. Do not store in plastic drums on their sides to avoid accumulation of rain water in the top of the drum, recessed areas.

Do not allow contamination of seeds, plants, fertilizers, or other pesticide chemicals. Do not contaminate food, feed stuffs, or domestic water supplies.

To avoid injury to fish and other wildlife, do not spill or empty TELONE II into streams, ponds, or other bodies of water.

Repair equipment and plant parts and dispose of wastes by burying in non-crop lands away from water supplies. Dispose of empty containers by puncturing holes in them and burying with wastes.

See this product family specification on this label.

**NOTICE:** This product is a highly toxic fumigant. It is not to be used in any way except as directed on the label. For the purposes stated on the label, it is a hazardous material. It is not to be used in any way except as directed on the label. This warranty and any other warranty of the manufacturer is hereby disclaimed. The user assumes all responsibility for the use of this product. Contrary to the above, the user assumes all responsibility for the use of this product. The user assumes the responsibility for the use of this product.

**KEEP OUT OF REACH OF CHILDREN**  
**HAZARDOUS LIQUID AND VAPOR**  
**MAY BE FATAL IF INHALED.**

parasitic nematodes (root  
knotting, spiral, sting,  
stomach and) Fumigate  
and soil at the rates  
indicated on the label.  
DATE: 5-17-76

beans  
peas  
squash  
cucumbers  
sweet potatoes  
swiss chard  
tomatoes  
turnips  
winter melon

corn  
cotton  
sorghum  
soybeans  
sugar beets  
sugar cane  
tobacco  
wheat

peaches  
plums  
pomegranates  
prunes  
quince  
walnuts

young trees

apple, fruit and nut trees

fruits

Dosage	
Fl. Oz. 1000 Ft. Row Per Chisel	
40 to 57	12
50 to 73	15
73 to 100	36
100 to 134	36
134 to 173	36
173 to 225	15

**Food, Feeds, or Clothing**

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**DIRECTIONS FOR USE**

**WHEN TO TREAT:** Apply TELONE II either in the spring or fall, whenever soil type and conditions permit. For best results with annual crops, treat the soil early in the northern states, late summer or early fall treatment before October 15 is best for land to be planted in early spring crops, especially transplanted crops such as nursery, tomatoes, and nursery crops. For early fall treatment permits planting a fall cover crop. **Note:** Treat muck soils only in the early fall and do not treat muck soils in the spring; treat fine textured clay soils only when they are near or at the wet side. Do not use TELONE II to treat any type of soil when it is cold and or wet.

**SOIL PREPARATIONS:** TELONE II penetrates the soil by the capillary action and diffusion of the fumigant through the soil and the soil surface. To be sealed to prevent excess or fumigant loss during the exposure period. The soil should be to good seed bed condition, free of roots and under imposed plant material, moisture at about one-half of field capacity, and temperature between 40° and 80° F at the depth of injection. If under imposed plant debris is present, TELONE II should be plowed down and allowed to decompose before applying TELONE II. Tillage deeper than 12 inches is necessary for good fumigant penetration in soils where a hard or "prow" pan occurs at plow depth. Where deep tillage is used, the tillage equipment may often be modified to simultaneously apply the fumigant and the seed along over the field twice.

**APPLICATION:** TELONE II may be applied to the soil as an **overall (broadcast)** or **row treatment**, using suitable application equipment that will ensure placement of the fumigant at least 6 to 8 inches below the final soil surface. **For overall application** use either a plow or chisel equipment with the chisels spaced 12 inches apart. When the fumigant is injected at a depth of 12 inches or more (deep tillage), the chisel spacing may be up to twice the application depth but should not exceed 30 inches. Application may be made in the same direction or at an angle to the direction of the planting row, whichever is most convenient. **For row application** use chisel equipment with one chisel per row or two chisels spaced 12 inches apart to treat only the soil where the crops to be planted. When one chisel per row is used, adjust the fumigant flow rate to distribute about 11 times more fumigant per chisel than is recommended for overall application. When two chisels are used per row, apply at the same flow rate per chisel as for overall. In both cases, the amount of fumigant required per acre will decrease as the distance between rows is increased and vice versa. At time of planting, avoid placing the seed row directly over the furrow left by the applicator chisel. When a single chisel is used per row, place the seed 3 to 4 inches to one side of the chisel furrow. When two chisels are used plant in the center of the area between the chisel furrows.

**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 treading, or by bedding so that the fumigant will be 12 to 14 inches below the top of the bed. When fumigating listed rows, seal in the fumigant with ring rollers, press sealers, or by re-treading.

**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 cool 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 odor of TELONE II is no longer evident. Under optimum soil and weather conditions, allow one week of aeration time for each 10 gallons of TELONE II applied per acre. When TELONE II 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 gas and fumigant contamination 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 in northern states after fall fumigation of muck soils.

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P. O. Box 2010 — El Centro, CA 92243**

liming of highly acid soils before fumigation 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 fumigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer be used on soils where experience indicates a deficiency may occur.

**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.

Since TELONE II soil fumigant is corrosive under certain conditions, flush all applicators 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 II may be severely corrosive to such metals.** Common protective clothing, such as rubber gloves and boots, etc., may be penetrated readily by this material. Polyethylene provides a good barrier. For field operations cover yourself with polyethylene tarp. Store TELONE II in tightly closed containers in a cool place away from windows, but outside of buildings, and protect them with a cover to avoid accumulation of rain water in the top of the containers.

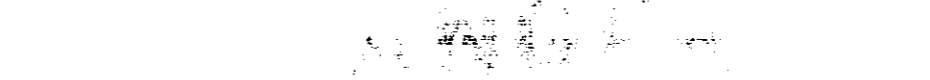
Do not allow contact with any type of food, feed, clothing, or other pest-free materials. Do not contaminate equipment with fumigant waste water applied.

Do not allow contact with water, streams, ponds, or other bodies of water.

Repair equipment and containers and dispose of wastes by burying in non-crop lands away from water supplies. Dispose of empty containers by puncturing holes in them and burying with wastes.

Use this product only as specified on the label.

**NOTICE:** This warranty is made by the seller to the buyer, and is made in good faith and reasonably for the purposes stated on the label. It is made subject to the terms and conditions of use, but neither this warranty nor any other warranty of the seller shall be construed as a contract. **WARRANTY:** Express or implied, extends to the use of this product contrary to the label. Seller shall not be liable for damages, and does not reasonably foreseeable to seller, and buyer assumes the risk of injury.



**KEEP OUT OF REACH OF CHILDREN  
HAZARDOUS LIQUID AND VAPOR  
MAY BE FATAL IF INHALED,  
ABSORBED THROUGH SKIN, OR SWALLOWED  
CAUSES BURNS OF SKIN OR EYES  
COMBUSTIBLE**

**Do Not Get in Eyes, on Skin, or on Clothing. Wear Eye and Skin Protection Necessary to Prevent Contact When Handling This Material. Wash Thoroughly After Handling and Before Eating and Smoking. Wash Contaminated Clothing and Air Contaminated Shoes Thoroughly Before Reuse. DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME. Use only with Adequate Ventilation. Do Not Breathe Vapor.**

**In case of contact,** immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water; **for eyes,** flush with flowing water for at least 15 minutes and get medical attention.

**In case of spillage indoors** have available an approved full face mask equipped with a fresh black canister meeting specifications of the U.S. Bureau of Mines for organic vapors, a full face self-contained breathing apparatus, or full face air-supplied respirator.

**If inhaled,** remove to fresh air. Use artificial respiration if breathing has stopped. Get immediate medical attention. Keep patient absolutely quiet.

**If swallowed,** call a doctor, induce vomiting by giving an emetic such as 2 table-spoonfuls of table salt in a glass of warm water.

NET CONTENTS \_\_\_\_\_ G.P. Numbers P4167-4176

es. tanjela  
granat  
S  
e  
ts  
b  
ade. fruit and root trees  
usage  
Fl Oz 1000 Ft  
Row Per Chisel  
46 to 62  
93 to 123  
26 to 44  
71 to 106  
71 to 106  
62  
95 to 144  
93  
35 to 53  
various Depths  
5 ft 11  
27 33  
36 48  
63 75  
84 102  
be  
preparation  
by methods  
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