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GENERAL INFORMATION

Use TELONE II soil fumigant only as a **preplanting soil treatment** to control plant parasites (nematodes [root knot, meadow, lesion, citrus, cyst formers, golden, sugar beet, soybean, burrowing, ring, spiral, sting, pin, stubby root, stunt, dagger], also to control wireworms and garden, entpedes (Symphylans). Fumigate and to be planted to the crops listed below by applying TELONE II under the conditions, and at the rates recommended under DIRECTIONS FOR USE, DOSAGE AND USE RECOMMENDATIONS, and USE PRECAUTIONS. Read the entire label before using TELONE II.

Vegetable Crops

asparagus	eggplant	horseradish	parsnips	shallots
beans	celery	kale	peas	spinach
beets	cucumbers	kohlrab	peppers	squash (summer)
blackeyed peas	corn	leeks	pumpkins	squash (winter)
broccoli	crowpeas	lettuce	potatoes	sweet potatoes
brussels sprouts	cucumbers	melons	pumpkins	swiss chard
cabbage	eggplant	mustard greens	radishes	tomatoes
cantaloupe	endive	okra	rutabaga	turnips
carrots	garlic	onions	salsify	watermelons

Field Crops

alfalfa	flax	oats	sorghum
barley	grasses	pasture grass	soybeans
birdfoot trefoil	hops	peanuts	sugar beets
buckwheat	lespedeza	popcorn	sugarcane
clover	millet	rice	tabacco
corn	milo	rye	vetch
cotton	mint	safflower	wheat

Citrus Fruit Tree Planting Sites

grapefruit	kumquats	lemons	limes	oranges	tangerines	tangelos
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Deciduous Fruit and Nut Tree Planting Sites

almonds	dates	elms	plums
apples	figs	pearches	pomegranates
apricots	hiberts	pears	prunes
cashews nuts	hazelnuts	peaches	quince
cherries	hickory nuts	persimmons	walnuts
chestnuts	nectarines	pineapple	

Bush and Vine Planting Sites

blackberries	currants	huckleberries	youngberries
blueberries	dewberries	lingonberries	
boysenberries	gooseberries	raspberries	
cranberries	grapes	strawberries	

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

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 15 is best for land to be planted to early spring crops, especially transplanted crops such as celery, tomatoes, and nursery and fruit and stock. Early fall treatment permits planting a fall cover crop. **Note:** Treat muck soils only in the early fall and plant as late as possible in the spring. Treat line textured (clay) soils only when they are near or at the wilting point. Do not use TELONE II to treat any type of soil when it is cold and or wet.

SOIL PREPARATION. TELONE II gives best results when it is applied in a uniform layer of the fumigant through the soil and the soil surface can be treated to prevent excessive fumigant loss during the exposure period. The soil should be in good seed bed condition, free of weeds and other unwanted plant material, moisture at about one half of field capacity, and temperature between 60 to 80°F at the depth of application. If undecomposed plant debris is present, it should be plowed or worked into the soil before applying TELONE II. Fumigate deeper than 12 inches is necessary for deep-rooted perennial crops where a hard or plow pan exists at plow depth. Where deep plow causes the topsoil to be placed in a hard pan, it may often be modified to simultaneously apply the fumigant and then work the soil over the treated area.

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 plowseeder or chisel equipment with the chisels spaced 12 inches apart. When the fumigant is injected at a depth of 12 inches or more (deep chisels), 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 crop is to be planted. When one chisel per row is used, adjust the fumigant flow rate to distribute about 1 1/2 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 listing, 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-listing.

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 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 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 in northern states after fall fumigation of muck soils.

DOSAGE AND USE RECOMMENDATIONS to Control Nematodes, Symphylans, and Wireworms

Crops (consult list of individual crops under General Information)	Type of Treatment	Soil Type	Dosage		
			Gallons Per Acre ¹	Fl. Oz. 1000 Ft. Row Per Chisel	
Shallow Rooted Plants Field Crops Floral Crops Grasses and Turf Small Fruits Vegetables Ornamentals	Row (42")	Mineral	4.5 to 6	45 to 62	
		Muck or Peat	3 to 12	93 to 123	
	Overall (Broadcast)	Mineral	9 to 15	26 to 44	
		Muck or Peat	24 to 36	71 to 106	
Strawberries	Overall	Mineral	24 to 36	71 to 106	
Sugar Beets Root Knot Nematode	Row (42")	Mineral	6	62	
	Overall		12 to 15	35 to 44	
	Row (42")		9	93	
	Overall		12 to 18	35 to 51	
Pineapple ²	Row	Mineral	24 to 36		
Citrus - Florida ³	Overall	Mineral	36	106	
Nursery and Field Citrus Fruit Trees Deciduous Fruit Trees ⁴ Forest Trees Grapes Nut Trees Ornamentals Deep-rooted	Overall, Gallons Per Acre to Penetrate Various Depths				
	Mineral Soils	3 ft.	4 ft.	5 ft.	6 ft.
	Sand	15	21	27	33
	Sandy Loam	27	30	36	48
	Silt Loam	42	51	63	75
	Clay Loam	54	69	84	102

¹Use the higher rates in each class.

²For best fumigant results, use dosage to 18 gallons per acre (5.4 fl. oz. 1000 ft. row per chisel).

³For muck soils containing less than 1% organic matter use 18 gallons per acre.

⁴For Hawaiian pineapple, application may be

⁵For burrowing nematode, use this treatment for 2 years before replanting citrus.

⁶Row treatment is not recommended for pre-planting sites prepared by backhoeing results prepare and treat sites in the fall.

⁷Use TELONE II as an aid in the control of highly sandy soils at the rate of 24 to 36 gal. water 50 BS fl. at 6-inch depth, and moisten for seed directions for soil preparation, again.

NOTE: To control symphylans (garden centipedes) when the soil is warm, the control treatment.

White Potatoes in Northwestern States: Use 5% overall treatment in the spring, or 10% Verticillium wilt in disease-infested 1 weeks or until the odor of the fumigant. Station or State Extension Service, weed control, and cultural practice Verticillium wilt.

Important — Note Carefully: Fumigants in the soil. This is most likely to are either cold, wet, acid or high in tests made after fumigation. To avoid soils do not use fertilizers containing the crop is well established and the

Certain crops including cotton, sugarcane, apply to them. When using for timing of highly acid soils, before minimum toxicity. Certain nursery vegetable crops such as cauliflower. To avoid this possible effect, this experience indicates a deficiency.

Attention: To avoid reinfestation of or crop remains that could carry so.

Some TELONE II soil fumigant is a corrosive immediately after use. (1) equipment made of aluminum, **ma severely corrosive to such metals** be penetrated readily by this material, shoes, and hands with polyethylene gloves, twine, to both to storage or protect recessed areas.

Do not allow recontamination of seed beds, especially for deep-rooted water. To avoid injury to fish and other aquatic life, use water.

Reseal equipment and containers, especially those of empty containers, use the product only as specified.

NOTICE: Under warranty that the purposes stated on the label when used the warranty nor any other warranty, or implied, extends to the use of the under conditions not reasonably fore-

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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 listing, 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-listing.

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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 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 in northern states after fall fumigation of muck soils.

**DOSAGE AND USE RECOMMENDATIONS
to Control Nematodes, Symphylans, and Wireworms**

Crops (consult list of individual crops under General Information)	Type of Treatment	Soil Type	Dosage		
			Gallons Per Acre ¹	Fl Oz 1000 Ft Row Per Chisel	
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		Muck or Peat	3 to 12	93 to 123	
	Overall (Broadcast)	Mineral	9 to 15	26 to 44	
		Muck or Peat	24 to 36	71 to 106	
Strawberries	Overall	Mineral	24 to 36	71 to 106	
Sugar Beets Root Knot Nematode	Row (42")	Mineral	6	62	
	Overall		12 to 15	35 to 44	
	Sugar Beets Nematode		Row (42")	9	93
	Overall		12 to 18	35 to 53	
Pineapple ²	Row	Mineral	24 to 36	-	
Citrus - Florida ³	Overall	Mineral	36	106	
Nursery and Field ⁴ Citrus Fruit Trees Deciduous Fruit Trees ⁵ Forest Trees Grapes Nut Trees Ornamentals (deep rooted)	Overall: Gallons Per Acre to Penetrate Various Depths				
	Mineral Soils	3 ft	4 ft	5 ft	6 ft
	Sand	15	21	27	33
	Sandy Loam	27	30	36	48
	Silt Loam	42	51	63	75
	Clay Loam	54	69	84	102

¹Use the higher rates in heavy soils.
²For easy turning nematodes increase dosage to 18 gallons per acre (53 fl. oz. 1000 ft. row per chisel).
³For muck soils containing less than 10% organic matter use 18 gallons per acre.

⁴For Hawaiian pineapple, application may be made at time of or just before planting.
⁵For burrowing nematode, inject in 18 inch centers, 12 inches deep. Keep free of plants susceptible to burrowing nematodes for 2 years before replanting the trees.
⁶Row treatment is not recommended for potatoes in irrigated areas of western and northwestern states.
⁷For planting sites, prepare the barkholeing may be treated by plowing 1 1/2 fl. oz. of TELONE II into the hole, then backfilling. For best results prepare and treat sites in the fall and plant in the spring.
⁸Use TELONE II as an aid in the control of barkley cranker and other line of peach trees by application as a preplant, overall treatment of light sandy soils at the rate of 24 to 36 gallons per acre (71 to 106 fl. oz. 1000 ft. row per chisel) preferably in the fall when the soil is warm (60-65 F) at 6 inch depth and moist. Inject the fumigant at a depth of 10 to 12 inches with chisels spaced on 12 inch centers. Follow directions for soil preparation, sealing, exposure, and aeration as specified elsewhere on this label.

NOTE: To control symphylans, garden centipedes, use only overall at 18 or more gallons per acre, and apply during late summer or early fall when the soil is warm. To control wireworms use the higher dosages recommended for nematodes in overall or broadcast treatments.

White Potatoes in Northwestern States: Use TELONE II as a spring or preferably a fall treatment to control quackgrass 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 cold, 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 citrus, 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, 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 possibility, it is suggested that additional phosphate fertilizer be used on soils where experience indicates a deficiency may occur.

Attention: To avoid recontamination 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 and 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 waterways. To outfit storage, store drums on their sides to avoid accumulation of rain water in the top or bottom 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 pour any TELONE II into streams, ponds, or other bodies of water.

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

Use this product only insofar as this label.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but 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, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.



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