

TELONE

Clean, Clear, Non-Nozzle Clogging **SOIL FUMIGANT**

CONTROLS MANY PLANT PARASITIC NEMATODES AND OTHER SOIL PESTS IN CROP LANDS

GENERAL INFORMATION

1,3-Dichloropropene and Related Chlorinated Hydrocarbons

Use TELONE only as a preplanting soil furnigant to control rematodes such as meadow (lesion), rootknot, citrus, burrowing, ring, spiral, sting, pin, stubby root, stylet, dagger and cyst formers golden and sugar beet) and certain others; also to control wireworms and garden centipedes (symphylans). Furnigate land to be planted to the crops listed below, under the conditions, and at the rates indicated under DIRECTIONS FOR USE, DOSAGE RECOM-MENDATIONS, and PRECAUTIONS.

Vegetable Crops:

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asparagus	cauliflower	horseradish	parsnips	shallots
beans	celery	kale	peas	spinach
beets	collards	köhtrabi	peppers	squash (summer)
blackeyed peas	corn	teeks"	pimentoes	squash (winter)
broccoli	cowpeas	lettuce	potatoes	sweet potatoes
brussels sprouts	cucumbers	melons	pompkins	swiss chard
cobbage	egg plant	mustard greens	radishes	tomatoes
cantoloupe	endive	okr <u>a</u>	rutabago	turnips
carrots	garlic	onions	salsity	watermelons

Field Crops:

blueberries

posseuperries

olf <u>alfo</u>	flax	eats_	sorghum
barley	grasses	pasture grass	soybeans
birdstoot trefoul	hops	peanuts	sugar beet
buckwheat	lespedeza	popcorn	sugar cane
clover	millet	rice	tobacço
corn	milo	Tye	vetch
cotton	mint	, softlower	wheat

Citrus Fruit Tree Planting Sites:

grapefruit	kumquats	lemons	imes	oranges	tangerines	tangelos
						, -
ciduous fruit	and Nut Tra	e Plantina S	litae.			

Deciduous Fruit and Nut Tree Planting Sites:

almonds	dotes	olives	<u>plums</u>
apples	figs	peaches	<u>pomegrana</u> tes
apricots	filberts	pears	prunes
cashew nuts	hazeinuts	pēcans	qu <u>iņce</u>
cherries	hickory nuts	persimmons	walnuts
chestnuts	nectarines	pineapple	
Bush and Vine Plans	ting Sites:		
blockberries	currants	huckleberries	youngberries

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

loganberries

raspberries

strawberries

dewberries

grapes

gooseberries

DIRECTIONS FOR USE

WHEN TO TREAT: Treat either in spring or fall, whenever soil conditions permit. For best results, with annual crops, treat soil each year. Do not use TELONE on extremely heavy clay soils. In northern states, late summer or early fall treatment (before October 15) is best for land to be planted to early spring crops. This is especially true where plants are to be set out, such as celery, tomatoes, nursery and orchard stock. Treat muck soils only in the early fall and plant in the spring. Early treatment permits planting a fall cover crop.

SOIL PREPARATION: For best fumigant-penetration and sealing, plant remains should be worked into the sail long enough before treatment so that the roots are well rotted. The soil should be in good seedbed condition, free of clods and undecomposed plant material with the temperature between 40° and 80°F at the depth of injection, and with enough moisture sport burrowing nematode in citrus inject on 18 inch centers 12 inches deep. Keep free of plants susceptible for good seed germination. Deep tillage, 12 to 18 inches, often improves results. Treat loams and clay loams when fairly dry (water content, one half of field capacity)

APPLICATION: for ever-all application, either chisel (with chisels set 12 inches apart) or plaw sale equipment may be used. For **new application**, use one chisel per raw, or two chisels spaced 12 inches apart. Where 2 or more chisels are used per row apply at the same rate per chisel as for over-all. As the distance between rows is increased the amount of fumigant required per acre will decrease. Also when the distance between rows is decreased the amount required per acre will increase. Mark the treated strips by bedding or listing or by tracter wheel marks, and plant in the middle of the treated areas. Where only I chisel is used per row adjust the fumigant flow to distribute about 11/3 times as much per chisel as over-all. When a single chisel is used, for best crop stands, place seed row 3 to 4 inches to one side of the fumigation chisel mark. Always inject the fumigant at least 6 to 8 inches below the final soil surface. In western irrigated cotton areas, use 2 chisels per row, set 12 inches apart, and plant in the middle of the treated strip.

SEAUNG Immediately after application, compact the soil. After chisel application, use a ratter, cultipacker or similar sealing device. After plaw-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 funigant will be 12 to 14 inches below the top of the bed. When fumigating fisted rows, seal in the fumigant with ring rollers

EXPOSURE PERIOD: After application and compacting, leave soil undisturbed for 7 to 14 days. Wet soil retards diffusion of fumigant, requiring a longer exposure period

AERATION AND PREPARATION OF SOIL BEFORE PLANTING: At the end of the exposure period, aerate the soil by plawing or deep cultivation. This is especially desirable in northern areas after fall application in much soils. On fumigated much soil, plant as late as possible in the spring Shallow-rooted crops can usually be planted after about 7 to 10 days of agration. Under optimum seedbed condition of soil composition, maisture and temperature one week of aeration time should be allowed for each 10 gallons of TELONE used per acre For deep-rooted shrubs and trees the aerotion period should be 3 to 6 months. If heavy rains or law temperature occur during the exposure period, working the soil several times to a depth of 6 to 8 inches may be necessary to hasten aeration. Aeration is usually complete when the odor of the fumigant is no longer evident.

DOSAGE RECOMMENDATIONS

To	Control	Nematodes,	Symphylans	and	Wireworms
e lest of					Limani Foot Por Pint Po

4	Type of Treetment	Sed Type				
(consult list of individual crops under GENERAL INFORMATION)			Golfons Per Acre	Two or more chiests per rew	One chiest per row	
Shallow Rooted Plants	Row for Bands	Mineral Mineral	5 to 8	260 to 195	173 to 130	
Field Crops Floral Crops	:42 1	Muck or Peat	12 to 16	130 io 97	87 to 65	
Grasses and Turl Small Fruits	Over all	Mineral	12 to 20°	455 to 273		
V ogetables Gramemais	or Broadcast.	Much or Peat	32° to 48	170 to 114		
Stramberries	Over all	Mineral	32 to 48	170 to 114		
Sugar Boots	Row (42)		7	223	149	
Root Knot Nemotode	Over all		15 to 20	363 to 273		
Sugar Beet	Rew (42)	Mineral	12	130	■7	
Nematede	Over all	1	15 to 25	363 to 218		
Time apple "	Rew	Mineral	30 to 60			
Citrus Florida ¹	Over all	Magral	40	136		

Citrus Florida	Uver an	Mineral				
Manager and Emile		Over-all	Salless Per	Acre to Peart	ute Various De	prin
Morsery and Field Citrus Fruit Trees Decidious Fruit Trees Forest Trees Grapes Mot Trees Ornomontals (doop record)	Mine	rel Soits	3 %	4 M.	5 ft.	6 ft
	Sand	I	20	28	36	44
	Sandy	Leam	36	40	44	84
	Salt L	-	58		84	100
	Day	900	12	92	112	136

Use the higher rates in heavier soil.

2 For cyst-forming nematodes increase dosage to 25 gallons (218 linear feet per pint per chisel.)

³ For muck soils containing less than 30% organic matter use 25 gallons per acre.

4 For Hawaiian pineapple, application may be made at time of, or just before planting

to burrowing nematodes for 2 years before replanting to citrus

NOTE: To control symphylans (garden centipedes) use only over all at 25 or more gallous per acre, and apply during late summer or early fall when the sail is warm. To control wireworms use dosages recommended for nematodes in over all or broadcast treatments.

White Polatess in Northwestern States: Use TELONE as a spring or preferably a fall treatment to central quackgrass and for suppression of the damaging effects of Verticillium will in fields to be planted to white potatees. Apply as an over-all treatment according to the following tabular directions:

Time of Treatment	Gallans per aure	Linear feet par pint per chisel
Spring	20 to 30	273 to 68 2
Fall	30 to 40	182 to 136

Mint in Ne thwestern States: Use 70 gallons of TELONE per acre as a spring or preferably a fall treatment to aid in the reduction of the damaging effects of Verticillium will in disease infested land to be used for mint production. After treatment allow at least 7 to 8 weeks ar until the odor of the fumigant has left the soil before planting. Consult local Agricultural Experiment Station authorities for the use of other practices such as floming the stubble. weed control and cultural practices when using TELONE 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 umigant are applied to sails 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 funigation. To avoid ammania 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 ofter the crop is well established and the soil temperature is above 65 F.

Certain crops including cotton, sugar cone, and pineapple are tolerant to ammonia and the above rule does not apply to them. Liming highly acid soils before fumigation stimulates nitrification and reduces 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 fumigotion. To avoid this possible effect, it is suggested that additional phosphate fertilizer be used on soils which tend to be

CAUTION: To avoid reinfestation of treated soil do not use transplants, tools, or crop remairs that could carry soilborne pests from infested land. Clear rig carefully before using

Since TELONE 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 alleys, as under certain conditions TELONE may be severely corresive to such metals. Common pro tective equipment, such as rubber glaves 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 in tightly closed containers in a coal place away from dwellings. In autside storage, store drums on their lides to avoid accumulation of rain water

Do not stare near seeds, plants, fertilizers, or other pesticide chemicals. Do not contaminate feed or foodstuffs

To avaid injury to fish and other wild life, do not spill or empty fumigant into streams, ponds

Rinse equipment and containers and dispose of wastes by burying in non-crop lands away from water supplies. Containers should be disposed by punching holes in them and burying with wastes

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KEEP OUT MAY BE FATAL IF OR SWALLOWED

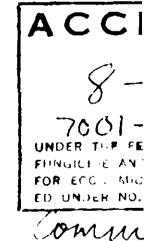
Do not get in eyes, or and goggles when han and before smoking. \ shoes thoroughly before Use only with adequate

IN CASE OF CONTACT. I and wash skin with soap water for at least 15 minut

IN CASE OF SPILLAGE apparatus or a mask or reof Mines for chlorinated C

IF INHALED, remove to stopped. Get immediate m

IF SWALLOWED, call a do tablespoonfuls of table sa



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CONDITIONS OF SALE: 1. Seller warrants that this produc reasonably fit for use as directed on the label. No one, otl make any other warranty, guarantee or direction concerning rate of application and other conditions of use are beyone handling, storage and use of this product is limited to replac