

UNDER THE FEDERAL REGISTRATION
PUNICIDE AND HERBICIDES ACT
FOR ECONOMIC PESTS CONTROL
UNDER NO. 8360-1

1/12/67

CONTENTS: 1 GALLON U. S. STANDARD

FORMALDEHYDE SOLUTION

USDA REG. NO. 8360-1; COLO. REG. NO. 487

ACTIVE INGREDIENT: FORMALDEHYDE37%
INERT INGREDIENTS: (By Volume)
WATER50%
METHYL ALCOHOL13%

DANGER KEEP OUT OF REACH OF CHILDREN
VAPOR HARMFUL — CAUSES IRRITATION OF SKIN, EYES,
NOSE AND THROAT

Do not breathe vapor. Avoid prolonged contact with skin and eyes. In case of contact, flush with plenty of water; for eyes, get medical attention. Cannot be made non poisonous. May be fatal or cause blindness if swallowed.

APPLICATION:

WHEAT SMUT—Mix one pint of 37% Formaldehyde Solution with 40 gallons of water. Apply this to the seed grain in any manner that will moisten all the grain over all the surface.

OAT SMUT AND BARLEY—Use the same mixture as for wheat, but more care shall be used to see that the grain is wet enough to soak through the chaff.

POTATO SCAB—Use the same mixture as above. Soak the whole potato for two hours before cutting for planting. Use only the best grade Formaldehyde Solution.

SEED TREATMENT—Use same mixture as above on WHEAT to control stinking smut; on OATS to control loose and covered smut; on BARLEY to control covered and black loose smut. After treatment the grain should be allowed to dry 2 hours or overnight then planted as soon as possible.

SPILLAGE: Use plenty of water to wash off material spilled on floor, tools, etc. Destroy containers of this material such as bottles, cartons, boxes by burning and other means making them unfit for reuse. Destroy wiping rags, sponges after use. In case of spillage on clothing, shoes, etc., remove clothing and wash with plenty of water repeatedly for at least ten minutes.

ACCEPTED WITH COMMENTS



P O I S O N



ANTIDOTE: Give a tablespoon of salt in a glass of warm water and repeat until vomit fluid is clear. Give milk or white of egg beaten with water. CALL A PHYSICIAN IMMEDIATELY.

SELLER makes no warranty, express or implied, concerning the Formaldehyde Solution furnished other than it shall be of the quality and specification stated. Any recommendations made concerning its uses or applications are believed reliable but Seller makes no warranty of results to be obtained. **PURCHASER** assumes all responsibility and liability for loss or damage resulting from the handling or use of this material.

Repackaged by

INDUSTRIAL CHEMICALS CORPORATION

2300 19TH STREET • P.O. BOX 5702 • DENVER, COLORADO 80217 U.S.A.



TELONE*

SOIL FUMIGANT

for Preplant Treatment of Crop Lands to Control Plant Parasitic Nematodes and Certain Other Soil Pests

GENERAL INFORMATION

Use TELONE soil fumigant only as a preplanting soil treatment to control plant parasitic nematodes (root-knot, meadow lesion, citrus cyst formers (golden, sugar beet, soybean) burrowing, ring, spiral, sting, pin, stubby root, stilet, dagger, and certain others); also to control wireworm and garden centipedes (symphylans). Fumigate land to be planted to the crops listed below by applying TELONE under the conditions, and at the rates recommended under DIRECTION FOR USE, DOSAGE AND USE RECOMMENDATIONS, and USE PRECAUTIONS. Read the entire label before using TELONE.

Vegetable Crops:

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

Field Crops:

alfalfa	flax	oats	sorghum
barley	grasses	pasture grass	soybeans
blackfoot clover	hops	peanuts	sugar beets
clover	lespedeza	popcorn	sugar cane
corn	millet	rice	tobacco
cotton	mint	rye	vetch
		safflower	wheat

Citrus Fruit Tree Planting Sites:

grapefruit	lemons	oranges	tangelos
limes	limes	tangerines	

Deciduous Fruit and Nut Tree Planting Sites:

almonds	dates	olives	plums
apples	figs	peaches	pomegranates
apricots	filberts	pears	prunes
cashew nuts	hazelnuts	pecans	quince
cherries	hickory nuts	persimmons	walnuts
chestnuts	nectarines	pineapple	

Bush and Vine Planting Sites:

blackberries	currants	huckleberries	youngberries
blueberries	gooseberries	loganberries	
boysenberries	raspberries	raspberries	
cranberries	grapes	strawberries	

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

DIRECTIONS FOR USE

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

SOIL PREPARATION: TELONE 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. The soil should be in good seed bed condition, free of clods and unincorporated plant material, moisture at about one-half of field capacity, and tem-

ACTIVE INGREDIENTS:

1,3-Dichloropropene and related chlorinated aliphatics 99%

INERT INGREDIENTS:

1%

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 is no longer evident. Under optimum soil and weather conditions allow one week of aeration time for each 10 gallons of TELONE applied per acre. When TELONE 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 Acre¹	Fl. Oz./1000 fl. Row Per Chisel	
Shallow Rooted Plants: Field Crops Floral Crops Grasses and Turf Small Fruits Vegetables Ornamentals	Row (42")	Mineral	6 to 8	62 to 82	
		Muck or Peat	12 to 16	123 to 165	
	Overall (or Broadcast)	Mineral	12 to 20	35 to 59	
		Muck or Peat	32 to 48	94 to 141	
Strawberries	Overall	Mineral	32 to 48	94 to 141	
Sugar Beets Root Knot Nematode	Row (42")		7	72	
	Overall	Mineral	15 to 20	44 to 59	
Sugar Beet Nematode	Row (42")		12	123	
	Overall		15 to 25	44 to 73	
Pineapple*	Row	Mineral	30 to 60		
Citrus—Florida*	Overall	Mineral	40	118	
Overall: Gallons Per Acre to Penetrate Various Depths					
Nursery and Field: Citrus Fruit Trees Deciduous Fruit Trees* Forest Trees Grapes Nut Trees Ornamentals (deep rooted)	Mineral Soils	3 ft	4 ft	5 ft	6 ft
	Sand	20	28	36	44
	Sandy Loam	36	40	48	64
	Silt Loam	56	68	84	100
Clay Loam	72	92	112	136	

Mint in Northwestern States: Use 70 gallons of per chisel) as an overall treatment in the spring (production of the damaging effects of Verticillium, mint production. After treatment allow at least 7 has left the soil before planting. Consult local for the use of other practices such as flaming the when using TELONE as an aid to reducing dam-

USE PREC

Important — Note carefully. Fumigation may to gen and soluble salts in the soil. This is most fumigant are applied to soils that are either do avoid injury to plant roots, fertilize as indicated avoid ammonia injury or nitrate starvation, or bot fertilizers containing ammonium salts and use of the crop is well established and the soil temperat

Certain crops including cotton, sugarcane, and above rule does not apply to them. When using late date nursery operations, timing of high y nitritation and reduce the possibility of am citrus seedlings. *Cornus* sp., *Crotalaria* sp. spr have shown evidence of phosphorus deficiency effect. It is suggested that additional phosphate indicates a deficiency may occur.

Attention: To avoid reinfestation of treated so tools, seed pieces, or crop remains that could be equipment carefully before using.

Since TELONE soil fumigant is corrosive under fuel oil or kerosene immediately after use. DO pumps, or other transfer equipment made of under certain conditions TELONE may be sever testing equipment, such as rubber gloves and a material. Polyethylene provides a good barrier with polyethylene bags. Store TELONE in light dewing in outside storage, store drums on the Do not allow contamination of seeds, plants, fer condensation food, feedstuffs, and domestic water.

To avoid injury to fish and other wildlife, do not or other bodies of water.

Rinse equipment and containers and dispose of from water supply. Containers should be disp with wastes.

Use this product only as directed on the label.

NOTICE: Seller warrants that the product conformably fit for the purposes stated on the label, under normal conditions for use, BUT NEITHER THE OF MERCHANTABILITY OR FITNESS FOR A PLANT EXTENDS TO THE USE OF THIS PRODU OR UNDER ABNORMAL CONDITIONS OR UND SEABLE TO SELLER AND BUYER ASSUMES

Field Crops: alfalfa barley broodstock buckwheat clover corn cotton	Flax grasses hops lespedeza millet mint	oats pasture grass peanuts popcorn rice rye safflower	sorghum soybeans sugar beets sugar cane tobacco vetch wheat
Citrus Fruit Tree Planting Sites: grapefruit lemons limes	oranges tangerines		
Deciduous Fruit and Nut Tree Planting Sites: apples apricots cherry chestnuts	dates figs hazelnuts hickory nuts nectarines	olives peaches pears pecans persimmons pineapple	plums pomegranates prunes quince walnuts
Bush and Vine Planting Sites: blackberries blueberries 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.

DIRECTIONS FOR USE

WHEN TO TREAT: Apply TELONE 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 orchard 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 fine textured (clay) soils only when they are near or at the wilting point. Do not use TELONE to treat any type of soil when it is cold and/or wet.

SOIL PREPARATION: TELONE 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. The soil should be in good seed bed condition, free of clods and undercomposed plant material, moisture at about one-half of field capacity, and temperature between 40° and 80° F at the depth of injection. If undercomposed plant debris is present, it should be plowed down and allowed to decompose before applying TELONE. Tillage deeper than 12 inches is necessary for good fumigant penetration in soils where a hard or heavy pan occurs at plow depth. Where deep tillage is used, the tillage equipment may often be modified to simultaneously apply the fumigant and thus avoid going over the field twice.

APPLICATION: TELONE 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 plowsole 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 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 plowsole 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 listing 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.

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	6 to 8	62 to 82
		Muck or Peat	12 to 16	123 to 165
Strawberries	Overall (or Broadcast)	Mineral	12 to 20	35 to 59
		Muck or Peat	32 to 48	94 to 141
Sugar Beets Root Knot Nematode	Row (42")		7	72
	Overall	Mineral	15 to 20	44 to 59
Sugar Beet Nematode	Row (42")		12	123
	Overall		15 to 25	44 to 73
Pineapple ⁴	Row	Mineral	30 to 60	
Citrus — Florida ⁵	Overall	Mineral	40	118

Nursery and Field: ⁷	Overall: Gallons Per Acre to Penetrate Various Depths				
	Mineral Soils	3 ft.	4 ft.	5 ft.	6 ft.
Citrus Fruit Trees					
Deciduous Fruit Trees ⁸	Sand	20	28	36	44
Forest Trees					
Grapes	Sandy Loam	36	40	48	64
Nut Trees					
Ornamentals (deep rooted)	Silt Loam	56	68	84	100
	Clay Loam	72	92	112	136

- Use the higher rates in heavier soil.
 - For cyst-forming nematodes increase dosage to 25 gallons per acre (73 fl. oz./1000 ft. row per chisel).
 - For muck soils containing less than 30% organic matter use 25 gallons per acre.
 - For Hawaiian pineapple, application may be made at time of or just before planting.
 - 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.
 - Row treatment is not recommended for potatoes in irrigated areas of west and northwestern states.
 - Tree planting sites prepared by backhoeing may be treated by pouring 1 quart of TELONE into the hole during backfilling. For best results prepare and treat sites in the fall and plant in the spring.
 - Use TELONE as an aid in the control of bacterial canker and decline of peach trees by application as a preplant, overall treatment of light (sandy) soils at the rate of 32 to 48 gallons per acre (94 to 141 fl. oz./1,000 ft. row per chisel) preferably in the fall when the soil is warm (50-85° F at 6-inch depth) and moist. Inject the fumigant at a depth of 10 to 12 inches with chisels mounted 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 25 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 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 over-all treatment according to the following tabular directions:

Time of Treatment	Gallons per acre	Fl. Oz./1000 Ft. Row Per Chisel
Spring	20 to 30	59 to 88
Fall	30 to 40	88 to 118

10 GALLONS
DISTRIBUTED BY
THE GREAT WESTERN SUGAR COMPANY
P. O. Box 5308 • Denver, Colorado 80217

above rule does not apply to them. When using high alkaline state nursery regulations, timing of highly acid nitrification and reduce the possibility of ammonia to citrus seedlings. *Corvus* sp., *Cratichneumon* sp. spruce and have shown evidence of phosphorus deficiency follow effect, it is suggested that additional phosphate fertilizer indicates a deficiency may occur.

Attention: To avoid reinfestation of treated soil do not use tools, seed pieces or crop remains that could carry soil equipment carefully before using.

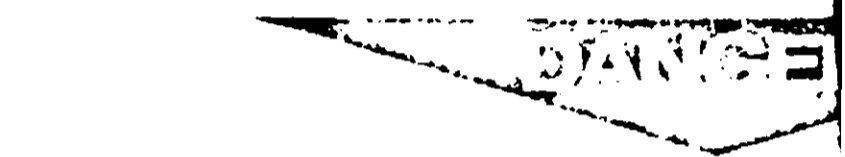
Since TELONE soil fumigant is corrosive under certain fuel oil or kerosene immediately after use. DO NOT use pumps, or other transfer equipment made of aluminum under certain conditions TELONE may be severely corrosive to equipment, such as rubber gloves and boots, and material. Polyethylene provides a good barrier. For use with polyethylene bags. Store TELONE in tightly closed dwellings. In outside storage, store drums on their side. Do not allow contamination of seeds, plants, fertilizers, contaminate food, feedstuffs, or domestic water supplies.

To avoid injury to fish and other wild life, do not spill or other bodies of water.

Rinse equipment and containers and dispose of waste from water supplies. Containers should be disposed of with wastes.

Use this product only as specified on this label.

NOTICE: Seller warrants that the product conforms to the label and is suitable for the purposes stated on the label when used under normal conditions for use. BUT NEITHER THIS WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXTENDS TO THE USE OF THIS PRODUCT OR UNDER ABNORMAL CONDITIONS OR UNDER CONDITIONS SEEMING TO SELLER AND BUYER ASSUMES THE



KEEP OUT OF REACH OF CHILDREN
HAZARDOUS LIQUID
MAY BE FATAL IF INHALED, ABSORBED OR SWALLOWED
OR SWALLOWED
CAUSES BURNS OF SKIN

Do Not Get In Eyes, on Skin, or on Clothing. Wash thoroughly with soap and plenty of water. For Eyes, Flush with plenty of water. For Skin, Wash with soap and plenty of water. For Inhalation, Move to fresh air. For Ingestion, Do not induce vomiting. Call a doctor. Induce vomiting by giving table salt in a glass of warm water.

COMBUSTIBLE

DO NOT USE, POUR, SPILL, OR STORE IN

IN CASE OF CONTACT, immediately remove contaminated clothing with soap and plenty of water. FOR EYES, Flush with plenty of water. Get medical attention.

IN CASE OF SPILLAGE INDORS have available an approved fresh black canister meeting specifications of the U.S. Department of Health, Education and Welfare. Use a full face self-contained breathing apparatus or full face respirator. IF INHALED, remove to fresh air. Use artificial respiration if necessary. IF SWALLOWED, call a doctor. Induce vomiting by giving table salt in a glass of warm water.

EPA Registration No. 8399-5

Cameraman's Note
Poor Copy



TELONE*

SOIL FUMIGANT

for Preplant Treatment of Crop Lands to Control Plant Parasitic Nematodes and Certain Other Soil Pests

INFORMATION

Planting soil treatment to control plant parasitic nematodes, cyst formers (golden, sugar beet, soybean, potato, stylo, dogger, and certain others); also to control other soil pests (Symphylans). Fumigate land to be planted to the crop under the conditions, and at the rates recommended under the USE RECOMMENDATIONS, and USE PRECAUTIONS.

Asparagus, shallots, spinach, squash (summer), squash (winter), sweet potatoes, Swiss chard, tomatoes, turnips, watermelons, etc.

oats, sorghum, soybeans, sugar beets, sugar cane, tobacco, vetch, wheat, etc.

oranges, tangelos, plums, pomegranates, prunes, quince, walnuts, etc.

huckleberries, youngberries, loganberries, raspberries, strawberries, etc.

mentals, shrubs and bushes: forest, shade, fruit of all types.

USE RECOMMENDATIONS FOR USE

Apply in the spring or fall, whenever soil type and conditions permit. Treat the soil each year. In northern states, the best time for land to be planted to crops such as celery, tomatoes, and nursery and bedding plants is in the fall. Note: Treat muck soils in the spring; treat fine textured (clay) soils in the fall. Do not use TELONE to treat any type of soil.

Apply when conditions permit rapid diffusion of the fumigant. The soil should be in good seed bed condition, free of clods and debris, and tamped to about one-half of field capacity, and tamped after application. If undercompacted plant debris is present, it should be decomposed before applying TELONE, for good fumigant penetration in soils where a

ACTIVE INGREDIENTS:

1,3-Dichloropropene and related chlorinated aliphatics 99%

INERT INGREDIENTS: 1%

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 is no longer evident. Under optimum soil and weather conditions allow one week of aeration time for each 10 gallons of TELONE applied per acre. When TELONE 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	6 to 8	62 to 82	
	Overall for Broadcast	Muck or Peat	12 to 16	123 to 165	
Strawberries	Overall	Mineral	12 to 20	35 to 59	
	Overall	Muck or Peat	32 to 48	94 to 141	
Sugar Beets, Root Knot, Nematode	Row (42")	Mineral	7	72	
	Overall	Mineral	15 to 20	44 to 59	
Sugar Beet, Nematode	Row (42")	Mineral	12	123	
	Overall	Mineral	15 to 25	44 to 73	
Pineapple*	Row	Mineral	30 to 60	—	
Citrus — Florida*	Overall	Mineral	40	118	
Overall: Gallons Per Acre to Penetrate Various Depths					
Nursery and Field: ² Citrus Fruit Trees, Deciduous Fruit Trees ³ , Forest Trees, Grapes, Nut Trees, Ornamentals (deep rooted)	Mineral Soils	3 ft.	4 ft.	5 ft.	6 ft.
	Sand	20	28	36	44
		Sandy Loam	36	40	48
	Silt Loam	56	68	84	100
Clay Loam		72	92	112	136

¹ Use the higher rates in heavier soil.

² For cyst-forming nematodes increase dosage to 25 gallons per acre (73 fl. oz. / 1000 ft. row per chisel).

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

Mint in Northwestern States: Use 70 gallons of TELONE per acre (205 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 infected 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 local Agricultural Experiment Station authorities for the use of other practices such as flaming 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 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 cotton, sugarcane, and pineapple are tolerant to ammonia and the above rule does not apply to them. When using high rates of TELONE 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* spp., *Crataegus* spp., spruce and vegetable crops such as peas, which 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, mowers, tools, seed pieces, or crop remains that could carry soil-borne pests from treated land. Clean equipment carefully before using.

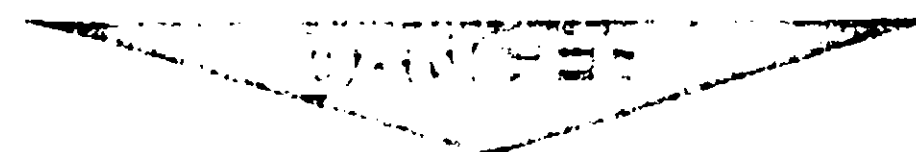
Since TELONE soil fumigant is corrosive under certain conditions, flush all applicators with fuel oil or kerosene immediately after use. DO NOT USE WATER. Do not use containers, pumps, or other transfer equipment made of aluminum, magnesium or their alloys, as under certain conditions TELONE may be severely corrosive to such metals. Do not use protective equipment, 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 in tightly closed containers in a cool, dry place, away from dwellings. In outside storage, store drums on their sides to avoid accumulation of rain water. Do not allow contamination of seeds, plants, fertilizers, or other pests or chemicals. Do not contaminate food, feedstuffs, or domestic water supplies.

To avoid injury to fish and other wildlife, do not spill or empty TELONE 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. Containers should be disposed of by punching holes in them and burying with wastes.

Use this product only as specified on the 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 for 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.



KEEP OUT OF REACH OF CHILDREN

red greens
a onions
radishes
rutabaga
salsify
tomatoes
turnips
watermelons

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		
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			7	72	
Sugar Beet Nematode	Overall	Mineral	15 to 20	44 to 59	
			12	123	
Pineapple ⁴	Row	Mineral	15 to 25	44 to 73	
			30 to 60	—	
Citrus — Florida ⁵	Overall	Mineral	40	118	
			—	—	
Nursery and Field: ⁷ Citrus Fruit Trees Deciduous Fruit Trees ⁸ 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	20	28	36	44
	Sandy Loam	36	40	48	64
	Silt Loam	56	68	84	100
Clay Loam	72	92	112	136	

¹ Use the higher rates in heavier soil.
² For cyst-forming nematodes increase dosage to 25 gallons per acre (73 fl. oz. / 1000 ft. row 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.
⁵ 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.
⁶ Row treatment is not recommended for potatoes in irrigated areas of west and northwestern states.
⁷ Tree planting sites prepared by backhoeing may be treated by pouring 1 quart of TELONE into the hole during backfilling. For best results prepare and treat sites in the fall and plant in the spring.
⁸ Use TELONE as an aid in the control of bacterial canker and decline of peach trees by application as a preplant, overall treatment of light (sandy) soils at the rate of 32 to 48 gallons per acre (94 to 141 fl. oz. / 1,000 ft. row per chisel) preferably in the fall when the soil is warm (50-85° F at 6-inch depth) and moist. Inject the fumigant at a depth of 10 to 12 inches with chisels mounted 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 25 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 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 over-all treatment according to the following tabular directions:

Time of treatment	Gallons per acre	Fl. Oz. / 1000 Ft. Row Per Chisel
Spring	20 to 30	59 to 88
Fall	30 to 40	83 to 118

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P. O. Box 5308 • Denver, Colorado 80217**

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 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 reinfestation of treated soil do not use irrigation water, transplants, tools, seed pieces, or crop remains that could carry soil-borne pests from treated land. Clean equipment carefully before using.

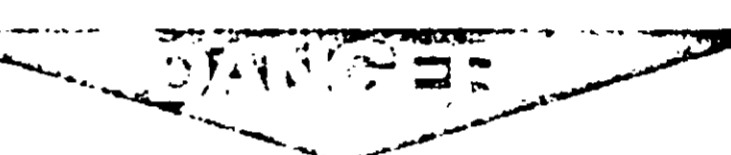
Since TELONE soil fumigant is corrosive under certain conditions, flush all application equipment with fuel oil or kerosene immediately after use. **DO NOT USE WATER.** Do not use containers, pumps, or other transfer equipment made of aluminum, magnesium, or their alloys, as under certain conditions TELONE may be severely corrosive to such metals. Common protective equipment, such as rubber gloves and boots, etc., may be contaminated readily by this material. Polyethylene provides a good barrier. For field operations, cover shoes and clothing with polyethylene bags. Store TELONE in tightly closed containers in a cool, place away from dwellings. In outside storage, store drums or tanks under cover to avoid accumulation of rain water. Do not allow contamination of seeds, plants, fertilizers, or other delicate chemicals. Do not contaminate food, feedstuffs, or domestic water supplies.

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

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

Use this product only as specified on 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 of label under normal conditions for 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.**



**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**

Do Not Get in Eyes, on Skin, or on Clothing. Wear Eye Protection Appropriate to the Circumstances When Handling This Material. Wash Thoroughly after Handling and Before Eating and Smoking. Wash Contaminated Clothing and Air Contaminated Shoes Thoroughly Before Reuse. Use Only with Adequate Ventilation. Do Not Breathe Vapor.

COMBUSTIBLE

DO NOT USE, POUR, SPILL, OR STORE NEAR HEAT OR OPEN FLAME

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 cyanide fumes; a full face self-contained breathing apparatus, or full face 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 tablespoonfuls of table salt in a glass of warm water.

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Cameraman's Note

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