ACCEPTED

OCT 20 1976

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 36020-1

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%**
E.P.A. Registration No.	**36020-1**
E.P.A. Est. No.	**36020-CA-01**

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.)

DANGER

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

GENERAL INFORMATION

Like TELONE II soil fumigant, may as a **preplanting soil treatment** control plant parasitic nematodes root knot, meadow, lesion, stubby root, stylet, dagger, and sting; cyst formers (golden, sugar beet, soybean); burrowing; ring; spiral; stem; and stubby root; stylet; dagger; also to control wireworms and garden centipedes (symphylans). Fumigate and 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	cauliflower	horseradish	parsnips	okra
beans	celery	kale	peas	spinach
beets	collards	kohlrabi	peppers	squash (summer)
brussels sprouts	corn	leeks	potatoes	squash (winter)
cabbage	cucumbers	lettuce	pumpkins	sweet potatoes
carrots	eggplant	mustard greens	radishes	tomatoes
cauliflower	endive	okra	rutabaga	turnips
chards	garlic	onions	salsify	watermelons

Field Crops

alfalfa	flax	oats	sorghum
barley	grasses	pasture grass	soybeans
buckwheat	hops	peanuts	sugar beets
dry beans	kenaf	peppermint	sugarcane
clover	millet	rice	tobacco
corn	mint	rye	vetch
cotton	oil seed	safflower	wheat

Citrus Fruit Tree Planting Sites

grapefruit, kumquats, limes, oranges, tangerines, tangelos

Deciduous Fruit and Nut Tree Planting Sites

almonds	dates	figs	pecans
apples	figs	pecan nuts	pomegranates
apricots	filberts	pears	prunes
cashew nuts	hazelnuts	pistachios	quince
cherries	heavy crops	plums (prunes)	walnuts
chestnuts	macadamia nuts	pomegranates	
	nectarines	pineapples	

Bush and Vine Planting Sites

blackberries	grapes	loganberries	raspberries
boysenberries	huckleberries	mulberries	strawberries
bramberries	olives	nectarines	
currants		raspberries	
		strawberries	

Nursery Crops including forest plants, ornamental trees, shrubs, vines, bushes, forest, shade, fruit and nut trees, including fruit, nut, and berry types.

DIRECTIONS FOR USE

WHEN TO TREAT Apply TELONE II either in the spring or fall whenever soil type and conditions permit. Fall treatments will normally allow crops that the soil can support in Northern states, late summer or early fall treatment before October 15 to be harvested and 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 moist soil only in the early fall and as late as possible in the spring, treat fine textured 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.

at 12 to 18 in the application depth but should not exceed 30 in. Application may be made in the direction of an angle to the direction of the planted row. Which layer is most convenient. **For application,** use chisel equipment with one chisel per row at two to three spaced 12 inches apart to treat the row where the crop is to be planted. When more than one chisel per row is used, adjust the fumigant flow to distribute about 1 chisel is to furnish half per chisel than if only one chisel is used for row application. When chisels are used per row apply at the same flow rate per chisel as for row application in both cases the amount of fumigant required per acre will decrease as the distance between rows is increased and vice versa. A preplanting tool is used along the seed row and only over the furrow left by the applicator chisel. When a chisel is used per row place the seed 3 to 4 inches to one side of the furrow when two rows are planted in the center of the area between the chisel furrows.

SEALING Immediately after application of soil fumigant, seal the surface to prevent escape of fumigant vapor. Best application use a roller, roll type, or similar sealing device. After plow zone application, firm and then compact by floating or rolling. Sealing after row application can be accomplished by the wheels of a tractor or by bedding so that the fumigant will be 12 to 14 inches below the top of the bed. Fumigant injected rows seal with the fumigant with ring rollers, press wheels, or by floating.

EXPOSURE PERIOD After application and sealing, leave the soil undisturbed for 7 to 14 days. A longer period may not will be required if the soil becomes extremely cold or wet during the exposure period.

AERATION AND PREPARATION OF SOIL BEFORE PLANTING At the end of the exposure period, the soil must be aerated 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 for each 10 gallons of TELONE II applied per acre. When TELONE II is used for treating deep root and crop planting sites, a 3 to 5 month 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 the treatment, use a knife cultivator in the bed, with the soil thoroughly pulverized and aerated. The treated soil, for the period after part of treatment is lower than the depth of the treatment zone. This is especially desirable in northern states after fumigation of heavy 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	Dosage: Fl. Oz. 100 Row Per Cl
Row Treated Plants				
Root crops	Row	Mineral	[illegible]	[illegible]
Bulb crops		Muck or Peat	[illegible]	[illegible]
Asparagus and Tuber	Overall	Mineral	[illegible]	[illegible]
Vine Fruits			[illegible]	[illegible]
Vegetables	Row or Overall	Muck or Peat	[illegible]	[illegible]
Ornamentals				
Strawberries	Row	Mineral	[illegible]	[illegible]
Sugar Beets	Row		[illegible]	[illegible]
Root Knot Nematode	Overall	Mineral	[illegible]	[illegible]
Sugar Beet Nematode	Row or Overall		[illegible]	[illegible]
Pineapples	Row	Mineral	[illegible]	[illegible]
Citrus — Florida[5]	Overall	Mineral	36	106

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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 tablespoonfuls of table salt in a glass of warm water.

GENERAL INFORMATION

preplanting soil treatment

Vegetable Crops

Field Crops

Citrus Fruit Tree Planting Sites

Deciduous Fruit and Nut Tree Planting Sites

Bush and Vine Planting Sites

Nursery Crops

DIRECTIONS FOR USE

WHEN TO TREAT

Note

SOIL PREPARATION

APPLICATION **overall (broadcast)** **row treatment**

For overall application

For

SEALING **SEAL**

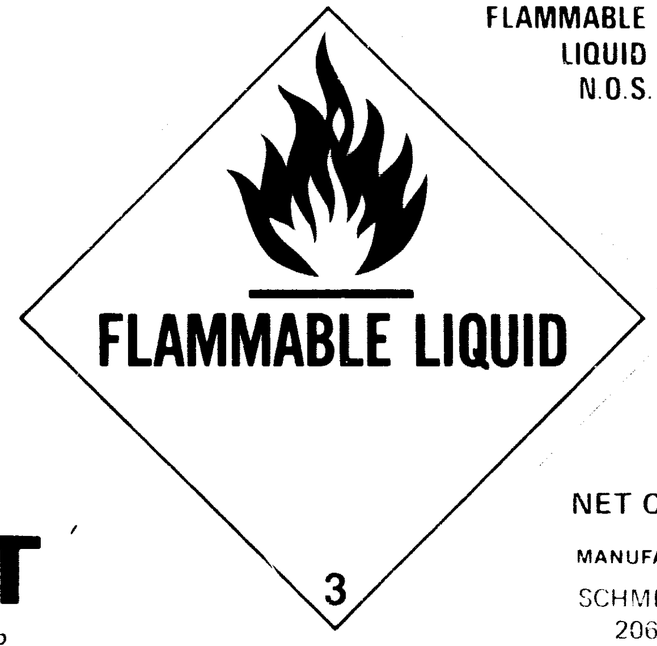
EXPOSURE PERIOD

AERATION AND PREPARATION OF SOIL BEFORE PLANTING

espe

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	Dosage: Fl. Oz. 1000 Row Per Chi
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



FLAMMABLE
LIQUID
N.O.S.

NET CONTENTS _____

MANUFACTURED FOR

SCHMIEDT'S SOIL SERVICE
20696 S. Manteca Road
Manteca, California 95336

NE* 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

GENERAL INFORMATION

preplanting soil treatment

Crops

Tree Planting Sites

Fruit and Nut Tree Planting Sites

ine Planting Sites

ops

DIRECTIONS FOR USE

REAT

For row

application

SEALING

EXPOSURE PERIOD

AERATION AND PREPARATION OF SOIL BEFORE PLANTING

especially

f heavy rains or low temperatures occur during the exposure period

DOSAGE AND USE RECOMMENDATIONS
to Control Nematodes, Symphylans and Wireworms

Crops (For suitl list of individual crops under General Information)	Type of Treatment	Soil Type	Dosage: Gallons Per Acre	Dosage: Fl. Oz. 1000 Ft. Row Per Chisel

White Potatoes in Northwestern States

Time of Treatment	Gallons per Acre	Fl. Oz. 1000 Ft. Row per Chisel

Mint in Northwestern States

After treatment allow at least 7 to 8

USE PRECAUTIONS

Important Note Carefully

Attention

equipment made of aluminum magnesium or their alloys as under certain conditions NE II may be

NE* 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

FLAMMABLE LIQUID

3

NET CONTENTS ____________

MANUFACTURED FOR

SCHMIEDT'S SOIL SERVICE
20696 S. Manteca Road
Manteca, California 95336

GENERAL INFORMATION

[illegible] as a **preplanting soil treatment** [illegible] wireworms and garden centipedes [illegible] under DIRECTIONS FOR USE, DOSAGE AND USE RECOMMENDATIONS [illegible] Read the entire label before using TELONE II.

rops

[illegible] peppers squash, summer squash, winter sweet potatoes tomatoes turnips [illegible]

[illegible] sugar beets [illegible] wheat

ree Planting Sites

[illegible]

ruit and Nut Tree Planting Sites

[illegible]

ne Planting Sites

[illegible]

DIRECTIONS FOR USE

EAT [illegible]

RATION [illegible]

N [illegible] **overall (broadcast)** [illegible] **row treatment** [illegible] **overall application** [illegible]

[illegible] application may be made in the same [illegible] whichever is most convenient. **For row application,** [illegible] chisels spaced 12 inches apart to treat only [illegible] adjust the fumigant flow rate [illegible] 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 [illegible] over the furrow left by the applicator chisel. When a single chisel is used per row, place the seed [illegible] 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 [illegible] application use a [illegible] or similar sealing device. After plow sole application, disk the [illegible] Sealing after row application can be accomplished by the tractor wheels [illegible] so that the fumigant will be 12 to 14 inches below the top of the bed. When [illegible] 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 for each 10 gallons of TELONE II applied per acre. When TELONE II is used for treating deep-rooted tree and vine planting sites [illegible] 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. [illegible]

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	Dosage: Fl Oz 1000 Ft Row Per Chisel
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 44
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 44
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible] may be made at time [illegible] before planting.

[illegible] following **nematodes** [illegible]

[illegible] irrigated areas of western and northwestern states.

[illegible] during **backfilling.** For best [illegible]

[illegible] **as a preplant overall treatment** [illegible] preferably **in the fall when the soil is** warm [illegible] **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 18 or more gallons per acre, **and apply during late summer or** early fall when the soil is warm. [illegible] 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 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 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, liming of highly acid soils before fumigation may stimulate nitrification and reduce the possibility of ammonia toxicity. Certain nursery crops such as [illegible] seedlings, Cornus sp., Crataegus sp., spruce, and vegetable crops such as [illegible] 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 [illegible] treated soil [illegible] irrigation water, transplants, tools, seed pieces [illegible] from infested land. Clean equipment carefully before using.

[illegible] TELONE II [illegible] corrosive under certain conditions. Flush applicators with fuel oil or kerosene [illegible] 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.** [illegible] protective clothing such as rubber gloves and boots, etc., may be penetrated [illegible] material. Polyethylene provides a good barrier. For field operations cover [illegible] TELONE II in tightly closed containers in a cool place away [illegible] to avoid accumulation of rain water in the top [illegible]

[illegible] Do not contaminate [illegible] water supplies.

[illegible] TELONE II into drains, ponds, or other [illegible] water.

[illegible] away from water [illegible] wastes.

[illegible]

NOTICE [illegible] reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither [illegible] warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express [illegible] under abnormal conditions or [illegible]