VIDDEN D*
SOIL FUMIGANT

FOR CONTROLLING MANY SUBTERRANEAN PLANT PARASITIC NEMATODES IN CROP LANDS

Active Ingredients ... 100%

1,3-dichloropropene, 1,2-dichloropropane and
related chlorinated hydrocarbons

U.S.D.A. Registration No.

Use VIDDEN D only as a preplant treatment ...

DIRECTIONS FOR APPLICATION AND PLANTING

WHEN TO TREAT ...

SOIL PREPARATION For best ...

APPLICATION ... over-all application ... row application ...

SEALING Immediately after ... chisel application, use ... plow sole application ...

EXPOSURE PERIOD After ... at least 2 to 4 days. Wet ...

AERATION AND PREPARATION OF SOIL BEFORE PLANTING After ... exposure period, aerate the soil by plowing or deep ... This is ... desirable in northern areas after fall applications ... If heavy rains accompanied by low temperatures occur during the exposure period, working the soil several times is essential for thorough aeration. Aeration is usually complete when the odor of the fumigant is no longer evident ... crops can usually be planted about 1 one week after the ...

DOSAGE RECOMMENDATIONS

Crop	Type of Treatment	Soil Type	Gallons Per Acre	Linear Feet Per Plow Per Chisel
Shallow Rooted Plants	Row 42"	Mineral	7.5 to 10	218 to 156
Field Crops		Muck or Peat	15 to 20	109 to 78
Floral Crops				
Grasses and Turf	Over all or Broadcast	Mineral	15 to 25	363 to 218
Small Fruits				
Vegetables		Muck or Peat	40 to 60	136 to 91
Ornamentals				
Strawberries	Over all	Mineral	40 to 60	136 to 91
Sugar Beets Root Knot Nematode	Row 42"			
	Over all			
Sugar Beet Nematode	Row 42"			
Pineapple*	Plow			
Citrus (India)				

Nursery and Field	Over all Gallons Per Acre to Penetrate Various Depths				
	Soil Type	3 ft	4 ft	5 ft	6 ft
Citrus Fruit Trees				45	55
Deciduous Fruit Trees					
Forest Trees			45	60	80
Grapes			85		125
Nut Trees					
Ornamentals deep rooted				40	

NOTE: To control symptoms, gardens ... 30 or more gallons per acre and apply during ... when the soils are warm. To control wireworms, use dosages recommended for ... broadcast treatments.

CAUTION: Note carefully fumigation may ...

USE PRECAUTIONS To avoid reinfestation ...

magnesium or their alloys, as under certain conditions VIDDEN D may be severely corrosive to such metals.

Store VIDDEN D soil fumigant in tightly closed containers in a cool place away from dwellings. In outside storage, store drums on their sides to avoid accumulation of rain water. Common 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.

Do not store near seeds, plants, fertilizers or other pesticide chemicals.

Do not contaminate feed and foodstuffs.

To avoid injury to fish or other wild life ... of spoil or empty fumigant 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 by punching holes in them and burying with wastes.

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.

DANGER
KEEP OUT OF REACH OF CHILDREN

... Vapor and Liquid ...

Keep Away from Heat and Open Flame
Keep Container Closed
Do Not Breathe Vapor   Do Not Take Internally
Use Only with Adequate Ventilation
Do Not Get on Skin, in Eyes, on Clothing

SIMPLOT SOILBUILDERS

such as floral crops, pineapple, orchard planting sites, ornamentals and forest annual crops, treat soil each year. Do not use

...PLICATION AND PLANTING

...be made either in spring or at whenever soil ...states. ate summer or early fall treatment ...ed for and to be planted in early spring crops ...as celery, tomatoes strawberries nursery, and ...its planting a fall cover crop. Treat muck soils the spring

...gant penetration and soil sealing plant remains ...enough before treatment so that roots are well ...seedbed condition with the temperature between ...ection and with enough moisture for good seed ...inches, often improves results. Treat loams and ...content, one-half of field capacity)

...ation, either chisel with chisels set 12 inches ...y be used. For **row application**, use one chisel ...inches apart. Where 2 or more chisels are used ...er chisel as for over-all. Where only 1 chisel is ...flow to distribute about 1⅓ times as much per ...between rows is increased the amount of fumi- ...se, and the amount required will increase when ...reased. Mark the treated strips by bedding or ...and plant in the middle of the treated areas. ...st 6 to 8 inches below the final soil surface. In ...2 chisels per row, set 12 inches apart, and plant ...See manufacturer's representative for detailed ...alibration of equipment.

...lication, compact the soil. After **chisel applica-** ...ker or similar sealing device. After **plow-sole** ...impact it by floating or rolling. Sealing after row ...by the tractor wheel, by listing, or by bedding so ...nches below the top of the bed. When fumigating ...with ring rollers or press sealers.

...tion and compacting, leave the soil undisturbed ...retards diffusion of the fumigant, thus requiring

...F SOIL BEFORE PLANTING: At the end of the

...y plowing or deep cultivation. This is especially ...fall application in muck soils. **If heavy rains oc-** ...occur during the exposure period, **working** ...al for thorough aeration. Aeration is usually ...fumigant is no longer evident. Shallow rooted ...t one week after the end of the exposure period ...deep ...b...

	(or Broadcast)			
Vegetables Ornamentals	(or Broadcast)	Muck or Peat	40³ to 60	136 to 91
Strawberries	Over-all	Mineral	40 to 60	136 to 91
Sugar Beets Root-Knot Nematode	Row (42")	Sandy, or Sandy Loam	9	173
	Over-all		20 to 25	273 to 218
Sugar Beet Nematode	Row (42")		15	104
	Over-all		20 to 30	273 to 182
Pineapple⁴	Row	Mineral	40 to 60	--
Citrus—Florida⁵	Over-all	Sandy	60	91

Nursery and Field:
Citrus Fruit Trees
Deciduous Fruit Trees
Forest Trees
Grapes
Nut Trees
Ornamentals (deep rooted)

Over-all: Gallons Per Acre to Penetrate Various Depths

Soil Type	3 ft	4 ft	5 ft	6 ft
Sand	25	35	45	55
Sandy Loam	45	50	60	80
Silt Loam	70	85	105	125
Clay Loam	90	115	140	170

[1] Use the higher rates in heavier soil
[2] For cyst-forming nematodes increase dosage to 30 gallons (182 linear feet per pint per chisel)
[3] For muck soils containing less than 30% organic matter use 30 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 suscep- tible to burrowing nematodes for 2 years before replanting to citrus

NOTE: To control symphylans (garden centipedes) use only over-all at 30 or more gallons per acre, and apply during late summer or early fall when the soil is warm. To control wireworms use dosages recommended for nematodes in over-all or broadcast treatments.

CAUTION: 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, avoid using 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, sugar cane, and pine-apple 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.

USE PRECAUTIONS: To avoid reinfestation of treated soil do not use transplants, tools, or crop remains that could carry soil borne pests from infested land. Clean rig carefully before using

Since VIDDEN D soil fumigant is corrosive under certain conditions, flush all appli- cators with fuel oil or kerosene immediately after use. DO NOT USE WATER. Do not use containers, pumps, or other transfer equipment made of aluminum

DAN...

KEEP OUT OF REA...

Hazardous Vapor and Liq...

CAUSES BURNS O...
MAY BE FATAL IF SWA...
ABSORBED THR...

Keep Away from H...
Keep Conta...
Do Not Breathe Vapor —...
Use Only with A...
Do Not Get on Skin, ...

In case of contact, immediatel... ing and ...ours and wash skin ... for eyes, flush with flowing ... and get medical attention. Do ... or shoes until entirely free of ... in case of spillage indoors, h... breathing apparatus or a mask ... by the United States Department ... CO hydrocarbons

If inhaled, remove to fresh air ... breathing has stopped. Get ... Keep patient absolutely quiet. ... ...ed with ... by a doctor. ... ...tablespoonful...