

ACCEPTED
 MAY 1 1979
 U.S. Federal Insecticide
 Fungicide and Rodenticide
 Act of 1947 as amended
 registered under
 EPA Reg. No. 464-392



-VIDDEN* DC-15 SOIL FUNGICIDE AND NEMATICIDE

A Multi-Purpose, Preplant Soil Fumigant for Use to Control Nematodes, Symphylans, Wireworms and Certain Soil Borne Diseases in Crop Lands

ACTIVE INGREDIENTS:

1,3-Dichloropropene, 1,2-Dichloropropene and related chlorinated aliphatics 85%
 Chloropicrin (Trichloronitromethane) 15%

*Contains 10.2 pounds active ingredients including not less than 4.8 pounds of 1,3-dichloropropene per gallon.
 E.P.A. Registration No. 464-392
 E.P.A. Est. No. 464-CA-1

PRECAUCION AL USUARIO: Si usted no lee Inglés, 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.)

KEEP OUT OF REACH OF CHILDREN

DANGER ☠ **POISON**

**PRECAUTIONARY STATEMENTS
 HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

HAZARDOUS LIQUID AND VAPOR • MAY BE FATAL IF INHALED, ABSORBED THROUGH SKIN, OR SWALLOWED • CAUSES BURNS OF SKIN OR EYES • MAY PRODUCE KIDNEY AND LIVER DAMAGE UPON PROLONGED EXPOSURE • VAPOR EXTREMELY IRRITATING

Do Not Breathe Vapor • Do Not Get in Eyes, on Skin, on Clothing • Do Not Take Internally • Use Only With Adequate Ventilation • Wear Eye and Skin Protection Necessary to Prevent Contact When Handling VIDDEN DC-15 • Wash Thoroughly After Handling and Before Eating or Smoking

If protective gear, such as boots or gloves, becomes contaminated, immediately wash with soap and water. Never wear protective gear having the odor of 1,3-dichloropropene. Aerate and wash all protective gear thoroughly after use until all odor is gone. Render unusable and dispose of contaminated leather goods, including shoes.

SEE FURTHER INSTRUCTIONS UNDER HANDLING PRECAUTIONS SECTION ON SIDE PANEL

IF INHALED, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.
 IF ON SKIN, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. If water not immediately available, remove excess chemical from skin with sorbent material such as towel or dry soil, then proceed at once to location where water is available and thoroughly wash contaminated skin with plenty of water. Call a physician.
 IF IN EYES, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
 IF SWALLOWED, immediately induce vomiting by giving two glasses of water and sticking finger down throat. Call a physician. Never give anything by mouth to an unconscious person.

**PHYSICAL OR CHEMICAL HAZARDS
 COMBUSTIBLE**

Do Not Use, Pour, Spit, or Store near Heat or Open Flame
 Do Not Cut or Weld Container

ENVIRONMENTAL HAZARDS

To avoid injury to fish and other wildlife, do not spill or empty into streams, ponds, or any other bodies of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

In case of an emergency endangering life or property involving this product, call collect **517-638-4400**

AGRICULTURAL CHEMICAL
 Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

86-1267 PRINTED IN U.S.A. IN MARCH, 1979
 REPLACES SPECIMEN LABEL 86-1267 PRINTED IN JUNE, 1973
 DESTROY OLD SPECIMEN LABELS
 REVISIONS INCLUDE: (1) COMPLETELY NEW FORMAT (2) PRECAUTIONARY INFORMATION FOR 1,3-DICHLOROPROPENE PRODUCTS (3) ADDED SECONDARY FLAMMABLE DOT LABEL

SPECIMEN LABEL

REDUCED TO 72%

DIRECTIONS FOR USE

Read and understand label before using this product in a manner inconsistent with the directions.

HANDLING PRECAUTIONS

DO NOT BREATHE VAPORS. NIOSH or MSHA approved respiratory protection should be worn when VDDEN DC 15 liquid soil fumigant is exposed to the atmosphere or when conducting operations which vent to the atmosphere. A NIOSH or MSHA approved full face respirator shall be used during maintenance, repairs, ca. operations, transfers, sampling and when working in poorly ventilated areas. When in use, canister soil cartridges shall be replaced after each hour of use or sooner if specified by manufacturer or if first sign of odor breakthrough or when canister first NIOSH approved cartridge (see 15 Month TAOA) will be adequate for short term situations such as maintenance.

Where very high concentrations of vapors might be expected, such as a large spill in poorly ventilated areas, a self-contained or air supplied respirator should be used.

DO NOT GET ON SKIN. When handling or working with VDDEN DC 15, wear clean body covering, including gloves and heavy footwear. Immediately remove contaminated coverings. Airate and wash a protective clothing and gear thoroughly after use.

There are no protective clothing materials that are completely impervious. Rubber very protective gear, thin layers of polyethylene in multiple layers offer some protection and shall be immediately discarded upon contamination. Heavy 3 mil polyethylene rubber neoprene double or perflourinated protection, leather gloves, no protection, 1 pair, barometer, flame resistant, washable, wash in soap and water; never wear protective gear having odor of VDDEN DC 15. Wash and airate a protective gear thoroughly before use until odor is gone.

DO NOT GET IN EYES. Wear eye protection such as full face respirator when handling VDDEN DC 15.

DO NOT SWALLOW. Do not use the mouth to siphon VDDEN DC 15 from containers or to blow out clogged lines or pipes.

STORAGE, SHIPMENT AND DISPOSAL

STORAGE. Store in tightly closed original container in a cool, dry, well-ventilated area. Do not allow contamination of seeds, plants, fertilizer, or other pesticide chemicals. Do not contaminate clothing, footwear, or food. Do not use metal pipes, in, or outside storage to a drum or inside a drum. Do not allow water or rain to get into the container.

SHIPMENT. Do not ship in a container with food, feeds, drugs, or other agricultural products. Do not use original container for other purposes. Do not use original container for other purposes. Do not use original container for other purposes. Do not use original container for other purposes.

DO NOT REUSE ORIGINAL CONTAINERS SUCH AS DRUMS

GENERAL INFORMATION

Apply VDDEN DC 15 to soil in the field and in nurseries. It is a fumigant which kills nematodes and soil-borne plant pathogens. It is a soil fumigant which kills nematodes and soil-borne plant pathogens. It is a soil fumigant which kills nematodes and soil-borne plant pathogens. It is a soil fumigant which kills nematodes and soil-borne plant pathogens.

Vaporable Crops: asparagus, beans, beets, black-eyed peas, broccoli, brussels sprouts, cabbage, cantaloupe, carrots, cauliflower, celery, collards, corn, cowpeas, cucumbers, egg plant, endive, garlic, horseradish, kale, kohlrabi, leeks, lettuce, melons, mixed greens, okra, onions, parsnips, peas, peppers, pineapples, potatoes, pumpkins, radishes, rutabaga, squash, shallots, spinach, squash (summer), squash (winter), sweet potatoes, sweet corn, tomatoes, turnips, watermelons.

Field Crops: alfalfa, barley, bird's foot trefoil, buckwheat, clover, corn, cotton, soybeans, hops, lespedeza, millet, mtl, mtl, oats, peanuts, popcorn, rice, rye, sorghum, sorghum, soybeans, sugar beets, sugar cane, tobacco, vetch, wheat.

Citrus Fruit Tree Planting Sites: grapefruit, kumquats, lemons, limes, oranges, tangerines, tangelos.

Deciduous Fruit and Nut Tree Planting Sites: almonds, apples, apricots, cashew nuts, cherries, chestnuts, dates, figs, hickories, hazelnuts, hickory nuts, nectarines, olives, peaches, pears, pecans, persimmons, pineapples, plums, pomegranates, prunes, quince, walnuts.

Bush and Vine Planting Sites: blackberries, blueberries, boysenberries, currants, currants, dewberries, gooseberries, grapes, huckleberries, raspberries, raspberries, strawberries, youngberries.

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

When to Treat: Apply VDDEN DC 15 whenever soil conditions are suitable for plant growth. Apply VDDEN DC 15 in the spring up to 2 weeks before planting the crop. It may be applied to soil in the spring up to 2 weeks before planting the crop. It may be applied to soil in the spring up to 2 weeks before planting the crop.

Soil Preparation: At the time of application, the soil should be in a well-drained condition. Use of fluids and undecomposed plant material and with some moisture is about the most favorable. Soil temperature should be 45 to 60 F. The depth of the soil to be treated should be 12 to 18 inches. The soil should be worked down to a depth of 12 to 18 inches before applying VDDEN DC 15. Do not use VDDEN DC 15 in extremely heavy clay or mud soils.

Application: VDDEN DC 15 may be applied as a broadcast or as a row treatment. For row treatments, apply VDDEN DC 15 in a row 4 to 6 inches apart. For broadcast treatments, apply VDDEN DC 15 in a row 4 to 6 inches apart. For row treatments, apply VDDEN DC 15 in a row 4 to 6 inches apart. For broadcast treatments, apply VDDEN DC 15 in a row 4 to 6 inches apart.

Notes: Do not use VDDEN DC 15 in extremely heavy clay or mud soils. Do not use VDDEN DC 15 in extremely heavy clay or mud soils. Do not use VDDEN DC 15 in extremely heavy clay or mud soils.

DOSAGE AND USE RECOMMENDATIONS

to control *Nematodes, Symphytons* and *Diseases*

Crop (consult list of individual crops under General Information)	Type of Treatment	Soil Type	Dosage	
			Gallons Per Acre	Fl Oz Per 1000 ft Row Per Chisel
Shade Treated Plants	Row	Mild	15 to 20	110 to 120
	Over	Mild	15 to 20	150 to 200
Field Crops	Row	Mild	15 to 20	150 to 200
	Over	Mild	15 to 20	150 to 200
Citrus Fruit Tree Planting Sites	Row	Mild	15 to 20	150 to 200
	Over	Mild	15 to 20	150 to 200
Nursery and Field Crops	Row	Mild	15 to 20	150 to 200
	Over	Mild	15 to 20	150 to 200

DOSAGE AND USE RECOMMENDATIONS

to Control *Soil Borne Diseases*

Crop	Type of Treatment	Dosage	
		Gallons Per Acre	Fl Oz Per 1000 ft Row Per Chisel
Sweet Potatoes	Row	12 to 14	123 to 144
	Over	30 to 36	88 to 106
Tobacco	Row	12 to 14	123 to 144
	Over	30 to 36	88 to 106
Peanuts	Row	4 to 8	41 to 82
	Over	30 to 36	88 to 106
White Potatoes	Row	12 to 14	123 to 144
	Over	30 to 36	88 to 106
Wheat	Row	12 to 14	123 to 144
	Over	30 to 36	88 to 106
Onions	Row	12 to 14	123 to 144
	Over	30 to 36	88 to 106

Exposure Period: After application and sealing, leave the soil undisturbed for 14 to 18 days. Good wetting retards diffusion of VDDEN DC 15 requiring a longer exposure period.

Aeration of Soil Before Planting: At the end of the exposure period, even the soil to be planted should be aerated. Aeration is usually complete when the soil is no longer moist. Under optimum soil and weather conditions, a one week aeration period for each 10 gallons of VDDEN DC 15 applied per acre. When VDDEN DC 15 is used for treating deep-rooted trees and shrub plantings, a 3 to 6 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 soil treatment use a knife to churn in the bed without turning the soil, thus reducing possible recontamination of the treated soil. To hasten aeration after over-treatment, plow or deep cultivate to the depth of the treatment zone.

Attention: It is very important to avoid recontamination of treated soil. Use only planting material known to be free from disease and parasitic nematodes. It is good practice to cut sweet potato plants at or above the soil line and to use these cuttings for making field plantings. Do not use tools or crop residues that could carry soil-borne pests from infested land to treated land.

Consult State Agricultural Experiment Station or Extension Service for information on other practices such as post harvest destruction of crop residues, weed control and cultural practices, and use of nematode and disease resistant crop varieties that also may aid in reducing crop losses caused by soil-borne pests.

USE PRECAUTIONS

Important - Note Carefully: The treatment may temporarily raise the level of ammonia nitrogen and soluble salts in the soil. This is most likely to occur when heavy rates of VDDEN DC 15 are applied to soils that are low in organic matter. To avoid injury to plant roots, fertilizer analysis and soil tests made after treatment. To avoid ammonia injury or nitrate salinization of 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. In mineral soils do not apply more than 1/2 of the nitrogen requirements from fertilizers containing ammonium salts until the crop is well established and the temperature is above 65 F. Liming highly acid soils before treatment stimulates nitrification and reduces the possibility of ammonia and/or nitrate toxicity. Certain crops including cotton, sugarcane, pineapples are tolerant to ammonia and the above rule does not apply to them. Citrus seedlings, *Citrus sp.*, *Chamaecyparis sp.*, spruce, vegetable crops such as cauliflower and certain other crops have shown evidence of phosphorus deficiency following fumigation. To avoid this possible effect, it is suggested that additional phosphate fertilizer be used on soils which tend to be deficient in this nutrient under certain conditions. VDDEN DC 15 soil fumigant and nematode may be injurious to application equipment. Flush equipment with fuel oil or kerosene immediately after use. DO NOT USE WATER. Do not use: Motors, pumps, or other transfer equipment made of aluminum, magnesium, or their alloys, as under certain conditions VDDEN DC 15 may be completely corrosive to such metals.

NOTICE: This fumigant is highly toxic to humans and animals. It is a soil fumigant which kills nematodes and soil-borne plant pathogens. It is a soil fumigant which kills nematodes and soil-borne plant pathogens. It is a soil fumigant which kills nematodes and soil-borne plant pathogens.

BEST DOCUMENT AVAILABLE

SPECIMEN LABEL

REDUCED TO 95%

LOT



POISON

**CHLOROPICRIN
MIXTURE**

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FLAMMABLE LIQUID

NET CONTENTS

THE DOW CHEMICAL COMPANY

AND SUBSIDIARIES

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