

ACCEPTED
 MAY 1 1978
 U.S. Federal Insecticide,
 Fungicide, and Rodenticide Act
 Registration No. 464-257
 EPA Reg. No. 464-257



DORLONE* SOIL FUMIGANT

For Controlling Plant Parasitic Nematodes

ACTIVE INGREDIENTS: 98%
 1,3-dichloropropene and related chlorinated hydrocarbons 79%
 Ethylene dibromide † 19%
 INERT INGREDIENTS 2%
 † Ethylene dibromide (2 lb./gal.)
 E.P.A. Registration No. 464-257

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.)

E.P.A. Est. No. 464-CA-1

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**

**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
 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**

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 is 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 Near Spill 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
817-636-4400

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

86-1022 PRINTED IN U.S.A. IN MARCH, 1979.
 REPLACES SPECIMEN LABEL PRINTED IN OCTOBER, 1972.
 DESTROY OLD SPECIMEN LABELS.
 REVISIONS INCLUDE: (1) COMPLETELY NEW FORMAT (2) UPDATED.
 PRECAUTIONARY INFORMATION FOR 1,3-DICHLOROPROPENE PRODUCTS
 (3) ADDED SECONDARY LABEL FLAMMABLE LIQUID.

SPECIMEN LABEL

REDUCED TO 72%

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

HANDLING PRECAUTIONS

DO NOT INHALE VAPORS: NIOSH- or MSHA approved respiratory protection should be worn when DORLONE soil fumigant is exposed to the atmosphere or when conducting operations which vent to the atmosphere. A NIOSH- or MSHA approved half face respirator with chemical filters, goggles or full-face respirators shall be used during small spills, repairs, calibrations, transfers, sampling and when working in poorly ventilated areas. When in use, canisters or cartridges shall be replaced daily or sooner if specified by manufacturer or at first sign of odor breakthrough, whichever comes first. NIOSH approved cartridges, such as a Marsh 7400 II, will be adequate for short term situations such as listed above.

Where very high concentration of vapors might be expected (such as large spills in poorly ventilated areas) a self contained or air supplied respirator should be used.

DO NOT GET ON SKIN: When handling or working with DORLONE, wear clean body covering including gloves and heavy footwear. Immediately remove contaminated coverings. Aerate and wash all protective clothing and gear thoroughly after use.

There are no protective clothing materials that are completely impervious. Rubber, vinyl protective gear (thin layers of polyethylene minimum 1 mil) give short term protection and shall be immediately discarded upon contamination. Heavy (3 mil) polyethylene, rubber, neoprene provide longer term protection. Leather gives no protection. If gear becomes contaminated immediately wash with soap and water. Never wear protective gear having odor of 1,3 D-chloropropane. Wash and aerate all protective gear thoroughly after use until odor is gone.

DO NOT GET IN EYES: Wear eye protection such as chemical workers' goggles or full-face respirator when handling DORLONE.

DO NOT SWALLOW: Do not use the mouth to siphon DORLONE from containers or to blow out clogged lines, nozzles, etc.

STORAGE, SHIPMENT AND DISPOSAL

STORAGE: Store in tightly closed original container in a cool place away from dwellings. Do not allow contamination of seeds, plants, fertilizers or other pesticide chemicals. Do not contaminate food, feedstuffs, drugs, or domestic water supplies. In outside storage, store drums on sides to avoid accumulation of rain water in top or bottom recessed areas.

SHIPMENT: Do not ship or store with food, feeds, drugs, or clothing.

DISPOSAL: Rinse equipment and containers and dispose of wastes, including spills, rinsates, in a landfill approved for pesticides or by burying in non-crop lands away from domestic water supplies. Punch holes in containers before disposal. Dispose of empty containers in approved landfill or bury in a safe place. Consult Federal, State or local disposal authorities for approved alternative procedures.

DO NOT REUSE ORIGINAL CONTAINERS SUCH AS DRUMS

GENERAL INFORMATION

Use DORLONE only as a preplanting treatment to control nematodes such as root knot, stiel (tobacco stunt), meadow lesion, and certain other soil-borne nematodes in land to be planted to lima beans, broccoli, carrots, cauliflower, corn (sweet), cotton, cucumbers, eggplant, floral crops, gladiolus, lettuce, melons, nursery crops, okra, parsnips, peppers, pineapple, potatoes (sweet), potatoes (white, in Idaho and Wisconsin only), squash (summer), strawberries, tobacco, and tomatoes. It usually is applied as an over-all treatment, but row treatment may be used on cotton, cucumbers, and certain other crops for which this type of treatment is suitable. For best results, annual treatment is required.

DIRECTIONS FOR APPLICATION AND PLANTING

WHEN TO TREAT: Treatments may be made either in the spring or fall, whenever soil conditions are suitable. In northern states, late summer or early fall treatment (before October 15) is best in muck soils. Early treatment permits planting a fall cover crop. Do not use DORLONE on extremely heavy soils.

SOIL PREPARATION: To facilitate fumigant penetration and sealing, work crop remains into the soil so that they are decomposed before treatment. Soil should be in good, workable seedbed condition (warm, 60 to 80 F) and with adequate moisture for good seed germination. Deep tillage 12 to 18" often improves results, especially in heavy or muck soils.

APPLICATION: For over-all treatments, either chisel or plow sole equipment may be used. For row application, use one chisel per row or two chisels spaced 12" apart. Mark the treated strips by bedding or listing or by tractor wheel marks, and plant in the middle of the treated areas. Always inject the fumigant at least 8" below the final soil surface. Treat loams and clay loams when relatively dry (when water content is one half of field capacity).

SEALING: Immediately after application, compact the soil. After chisel application, use a float, roller, cultipacker, or similar device. After plow application, disk the land, then compact it by floating or rolling. Sealing after row treatment can be accomplished by the tractor wheel, or by listing or bedding. When fumigating listed rows, seal in the fumigant with ring rollers or press sealers.

EXPOSURE PERIOD: After application and compact on, leave the soil undisturbed for at least 7 to 14 days. Wet soil retards diffusion of the fumigant, thus requiring a longer exposure period.

AERATION AND PREPARATION OF SOIL BEFORE PLANTING: At the end of the exposure period, aerate the soil by plowing or deep cultivation. This is especially desirable in northern areas after fall application in muck soils. 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. Shallow-rooted crops can usually be planted one week after the end of the exposure period or when the aeration is complete. For deep-rooted trees and shrubs, the aeration period should be 3 to 6 months.

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 fumigants 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, 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.

DOSAGES RECOMMENDED

COTTON, FLORAL CROPS, TOBACCO AND VEGETABLES: Over-all Application (chisels set 12" apart): Use 12 to 16 gallons per acre (1 pint per 454 to 340 linear feet per chisel) in mineral soils. Use the higher dosage when soils are on the heavy side or when nematode populations are high. With muck or peat soils containing less than 30% organic matter, use 20 gallons per acre (1 pint per 272 linear feet per chisel). Where the organic matter of such soils is higher than 30%, use 24 gallons per acre (1 pint per 227 linear feet per chisel).

Row Application: Use 6 gallons per acre (1 pint per 260 linear feet) in mineral soils, based on a 42" row.

FOREST AND ORNAMENTAL NURSERY CROPS, PLANT BEDS, STRAWBERRIES AND TURF AREAS: Over-all Application (with chisels set 12" apart): use 24 gallons per acre (1 pint per 227 linear feet per chisel) in the early fall.

USE PRECAUTIONS

DORLONE is not recommended for use in soil to be planted to chions, green beans, table and sugar beets, cabbage, celery, field corn, peanuts, peas, spinach, and turnips.

To avoid reinfestation of treated soil, do not use transplants, tools or crop remains that could carry soil-borne pests from infested land. Clean applicator carefully before using. Since DORLONE 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, or under certain conditions DORLONE may be severely corrosive to such metals.

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.

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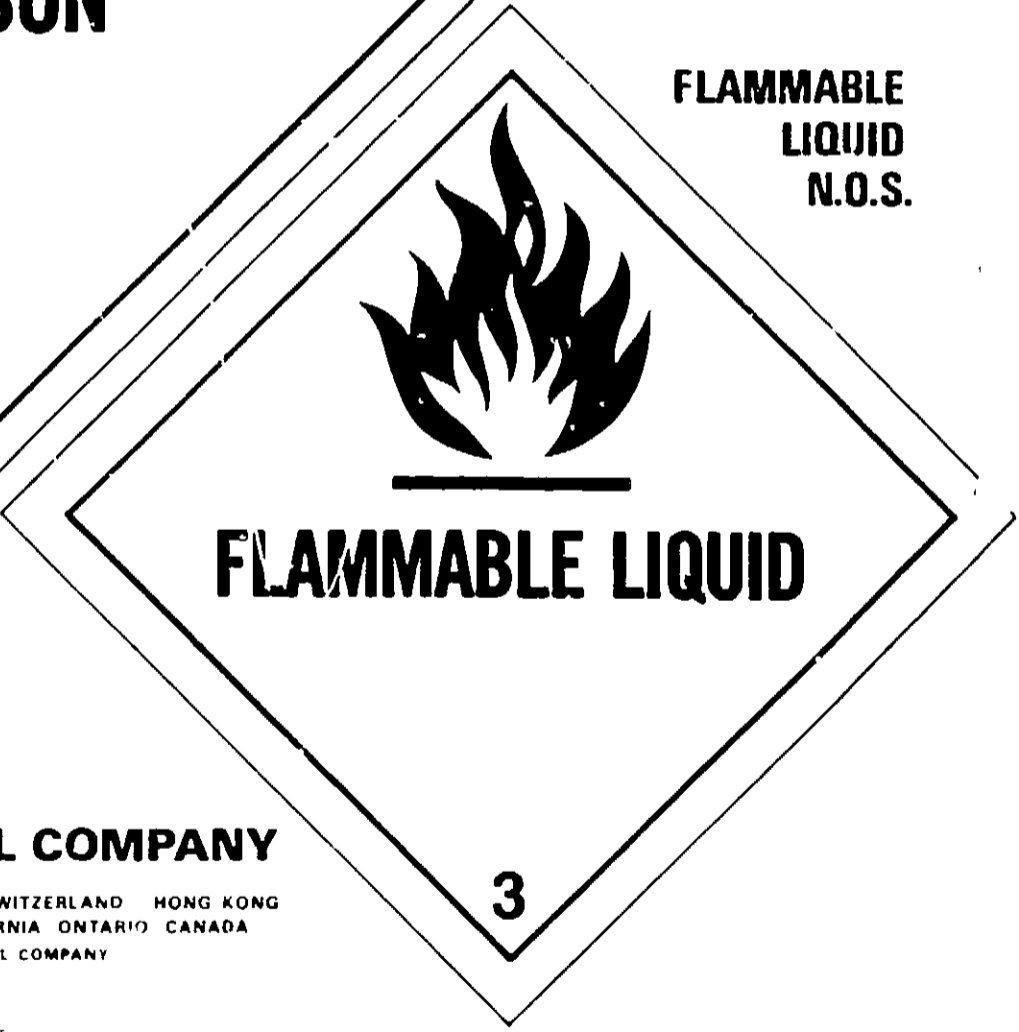
BEST DOCUMENT AVAILABLE

SPECIMEN LABEL
REDUCED TO 95%

LOT



POISON



FLAMMABLE LIQUID

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**FLAMMABLE
LIQUID
N.O.S.**

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THE DOW CHEMICAL COMPANY
AND SUBSIDIARIES

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