

Net Contents: 55 Gallons/208.1 Liters



Diamond Shamrock

SPECIMEN LABEL

LO-Vol 4D

Herbicide

| | |
|--|--------|
| Active Ingredient: Isooctyl ester of 2,4-dichlorophenoxyacetic acid* | 66.8% |
| Inert Ingredients: | 33.2% |
| Total: | 100.0% |

2,4-dichlorophenoxyacetic acid equivalent: 44.3% (3.8 lbs/gal)
*mer specific by AOAC Method No. 6.D01-5

Keep Out of Reach of Children

CAUTION

Only for Sale To, Use and Storage by Agricultural Personnel or Commercial Applicators

See side panel for additional precautionary statements

Diamond Shamrock Corporation
Agricultural Chemicals Division
Cleveland, Ohio 44114
EPA Reg. No. 677-295

3654-2001-810



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Precautionary Statements Hazards to Humans and Domestic Animals

Caution

Harmful if swallowed or absorbed through the skin.
 Avoid contact with eyes, skin or clothing.
 Avoid breathing spray mist.
 Wash thoroughly after handling.
 Keep container closed.
 If swallowed do not induce vomiting.
 If vomiting occurs spontaneously, keep airway clear.
Never give anything by mouth to an unconscious person. Seek medical attention.
 In case of contact,
 —immediately flush eyes with plenty of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire surface. Seek medical attention.
 —wash exposed skin gently with plenty of soap and water. Seek medical attention.

Environmental Hazards

Do not apply directly to water. **Do not** contaminate water by cleaning of equipment or disposal of wastes. **Do not** contaminate irrigation ditches or water used for domestic purposes. Use care to avoid spray contact or drift to 2,4-D susceptible plants such as cotton, tomatoes, flowers, grapes, fruit trees and ornamentals. **Do not** permit spray mist containing Lo-Vol 4D to drift onto them, since even very small quantities of the spray, which may not be visible, can cause severe injury during both growing and dormant periods. **Do not** spray when the wind is blowing towards susceptible crops or ornamental plants. Use coarse sprays to minimize drift. With ground equipment spray drift can be lessened by keeping the spray boom as low as possible by applying 20 gallons or more of spray per acre; by using no more than 20 pounds spraying pressure with flat fan or flooding flat fan nozzle tips; by spraying when wind velocity is low and by stopping all spraying when wind exceeds 6 to 7 miles per hour. **Do not** apply with hollow cone-type insecticide or other nozzles that produce a fine droplet spray. With aircraft application, drift can be lessened by applying not less than 5 gallons of spray per acre by using no more than 20 pounds spray pressure at the nozzles, by using nozzles which produce a coarse spray pattern and by spraying only when the wind velocity is less than 5 miles per hour. Although this product is much less volatile than butyl or isopropyl esters at high temperatures (above 95°F) vapors from this product may injure susceptible plants growing nearby. **Do not** use in a greenhouse. Flush sprayer out on suitable non-crop area after use. **Do not** use the same spray equipment for applying other materials to 2,4-D susceptible crops as injury may result.

Lo-Vol 4D

Read entire label before using this product.

General Information

Lo-Vol 4D is a selective herbicide recommended for the control of many broadleaved weeds in crops, along fence rows, around farm buildings and similar areas.

Lo-Vol 4D may be combined with liquid nitrogen fertilizers suitable for foliar application for weed control and fertilizing corn, small grains, sorghum and pasture grasses in one operation when 10 gallons or more of liquid nitrogen fertilizer is applied per acre. Use Lo-Vol 4D in accordance with recommendations for these crops given on this label. **See preparation of the spray for mixing Lo-Vol 4D with liquid nitrogen fertilizers.**

The following is a partial list of weeds controlled by Lo-Vol 4D:

| | | |
|-----------------|------------------|--------------------|
| Beggartick | Knotweed | Shepherdspurse |
| Bindweed | Kochia | Sicklepod |
| Bitterweed | Lambsquarters | Smartweed |
| Blueweed, Texas | Mallow | Sowthistle, annual |
| Broomweed | Marshelder | Sumac |
| Buckbrush | Milkvetch | Sunflower |
| Burdock | Morningglory | Tansy mustard |
| Canada thistle | Musk thistle | Tansy ragwort |
| Carpetweed | Mustards | (rosette) |
| Chicory | Nettle, stinging | Tumbleweed |
| Cocklebur | Pennycress | Velvetleaf |
| Coffeeweed | Pennywort | Vervain |
| Coyotebrush | Peppergrass | Vetch |
| Dandelion | Pigweed | Wild carrot |
| Dock | Plaintain | Wild garlic |
| Dogfennel | Poorjoe | Wild hemp |
| Elderberry | Puncturevine | Wild onion |
| Galinsoga | Pusley, Florida | Wild radish |
| Goldenrod | Ragweed | Willow |
| Henbit | Russian thistle | Witchweed |
| Jimsonweed | | Yellow rocket |

Note: Local conditions, crop varieties and application regulations vary and may affect use of this herbicide. Consult local agricultural experiment station or extension service weed specialists and state regulatory agencies for recommendations in your area.

Aerial application may be of use for control of weeds on certain crops where there would be no danger of drift to susceptible crops. Applications should only be made by applicators experienced in the use of 2,4-D formulations. Regulations governing aerial application of herbicides are in effect in many states. Consult local regulatory agencies concerning requirements before making applications.

Treating Small Areas: One tablespoonful of Lo-Vol 4D in 1½ gallons of water is about equal to 1 quart in 100 gallons.

Note: When stored at temperatures below freezing, it may be necessary to warm contents to 45°F and mix thoroughly before using.

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Directions for Use

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

Preparation of the Spray: Fill the spray tank with half the required amount of water, then add the recommended amount of **Lo-Vol 4D** and continue filling the spray tank with balance of water. Keep agitator running when filling spray tank and during spray operations. Use enough spray volume for uniform coverage by ground or air application. In any case, use the same amount of 2,4-D recommended per acre. For crop uses, **Do not** mix with oil, atrazine, surfactant or other adjuvants unless specifically recommended on this label as this may reduce selectivity to crops resulting in crop damage.

Use the liquid fertilizer at rates recommended by supplier or extension service specialist. To prepare the spray, pre-mix the recommended volume of **Lo-Vol 4D** with an equal volume of water. Add the pre-mix to the fertilizer. Use a minimum of 10 gallons of nitrogen fertilizer solution per acre. Add water to give recommended spray volume per acre and maintain continuous agitation during mixing and spraying. Applying the spray the same day it is prepared.

Do not store the fertilizer and Lo-Vol 4D spray mixture.

Time of Application: Best results are obtained when **Lo-Vol 4D** is used on young weeds that are actively growing. Applications of lower recommended rates to susceptible annual weeds usually will be satisfactory, but for perennial weeds and other conditions, such as in very dry areas where control is difficult, use higher recommended rates and increase the volume of water per acre. When used as a selective spray on crops the stage of growth of the crop must be considered. Some woody plants and weeds are hard to control and repeat applications may be necessary.

Small Grains (Wheat, Barley, Rye): Apply **Lo-Vol 4D** on small grains when fully tillered or stooled (4 to 8 inches tall), but before the "boot" stage. Crop injury may result if applied earlier than "tiller" or from early "boot" through the "milk" stage. **Do not** use on grain undersown with legumes, such as alfalfa or clovers. **Do not** graze or feed forage from treated fields within 2 weeks after treatment. See chart for recommended rates.

For late season use to control large succulent weeds, apply 1 to 2 pints per acre on small grain from dough stage to harvest - use only when weeds threaten to interfere with harvest operations. **Do not** use treated straw for livestock feed.

Corn: Preemergence - Best results are obtained with **Lo-Vol 4D** when applied 3 to 5 days after planting, but before corn emerges. **Do not** apply to light, sandy soils. **Postemergence** - Apply **Lo-Vol 4D** from emergence to tasseling. When spraying corn above 10 inches in height, use nozzle extensions ("corn drops"), directing the spray at base of the corn plant to keep the spray off the leaves as much as possible. **Do not** apply from tassel emergence to dough stage. Crop injury is more likely to occur if corn is growing rapidly under high temperature and high soil moisture conditions. Under such conditions, use the lowest recommended rates. Delay cultivation for 8 to 10 days after application to reduce stalk breakage resulting from temporary brittleness caused by 2,4-D. Hybrids vary in tolerance to 2,4-D. Consult local agricultural experiment station or extension service weed specialists regarding the use of 2,4-D on your specific hybrid. See chart for recommended rates.

Sorghum: Apply **Lo-Vol 4D** when sorghum plants are 6 to 12 inches tall and secondary roots are well established. Use drop nozzles when crop is over 10 inches tall. **Do not** apply from flowering to dough stage. See chart for recommended rates.

Amount of Lo-Vol 4D per Acre

| Crop (See Detailed Directions Above) | For Average Conditions | For Dry Conditions as in Western States* |
|--------------------------------------|------------------------|--|
| Wheat, Barley, Rye | | |
| Annual Weeds | 1/2 to 1 pint | 1 to 2 pints |
| Perennial Weeds | 1 pint | 1 1/4 to 2 pints |
| Corn** | | |
| Preemergence | 1 to 2 quarts | |
| Postemergence | 1/2 pint | 1/2 to 3/4 pint |
| Sorghum** | | |
| Postemergence | 1/2 pint | 1/2 to 3/4 pint |

*These higher rates in a minimum of 5 gallons of spray may be needed to control difficult weed problems in certain areas such as under dry conditions especially in western areas. Consult State Agricultural Experiment Station or Extension Service Weed Specialists for recommendations or suggestions to fit local conditions.

**If only rows or bands are treated, leaving middles unsprayed reduce dosage rate per crop acre proportionate to the ground area actually sprayed.

Pastures: To control many broadleaved weeds in pastures, meadows and rangelands, use 2 pints per acre of **Lo-Vol 4D**. Treat pastures when weeds are growing actively. **Do not** apply to newly seeded pastures until grass is well established, or after heading begins. **Do not** apply when grass is in "boot" to "milk" stage if grass seed production is desired. For control of wild garlic and wild onion in pastures, apply 2 to 3 quarts per acre in very early spring and repeat annually until weeds are eradicated. **Do not** graze dairy animals on treated areas within 7 days after treatment.

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Lawns, Golf Courses and Similar Turf: Apply 2 pints of Lo-Vol 4D per acre. Do not apply to newly seeded lawns until grasses become well established. Injury may result if applied to bentgrass, St. Augustinegrass, carpetgrass, centipedegrass, Dichondra and clovers.

Woody Plant Control: To control 2,4-D susceptible woody plants such as alder, buckbrush, elderberry, sumac and willow on non-cropland and waste areas, use 2 to 3 quarts Lo-Vol 4D in 100 gallons of water. Wet thoroughly all parts of the plants including foliage and stems to the point of run-off. Higher volumes are necessary where the brush is very dense and over 6 to 8 feet high. Applications are more effective when applied to actively growing plants. Do not treat during periods of severe drought or in early fall when leaves have lost their healthy green color. Hard-to-control species may need retreatment the following season.

General Weed Control: Along fence rows, ditchbanks, roadsides, industrial sites, around farm buildings and similar areas, use 1 to 2 quarts of Lo-Vol 4D in 100 gallons of water per acre. Thoroughly wet all foliage to run-off.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

Container Disposal: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill, or by other approved State and local procedures.

Warranty and Limitation of Damages

Seller warrants that this material 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 and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

Agricultural Chemicals Division
Diamond Shamrock Corporation
1100 Superior Avenue
Cleveland, Ohio 44114
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LO-VOL 4D



Diamond Shamrock

LO-VOL 4D

(EPA REG. NO. 677-295)

FOR USE ON FIELD CORN AT PREHARVEST

(BROWN SILK STAGE)

ACCEPTED

JUL 19 1982

U.S. Federal Insecticide
Fungicide and Rodenticide Act
as amended for the pesticide
registered under
EPA Reg. No. 677-295

Directions For Use

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

Apply LO-VOL 4D, 1 pt. to 2 pts per acre, with air or ground equipment after the hard dough (dent stage) to suppress weeds that interfere with harvest such as bindweed, cocklebur, dogbane, jimsonweed, ragweed, sunflower, velvetleaf and certain other broadleaf weeds, and to decrease production of weed seeds. The high rate should be used on difficult-to-control weeds growing under stress conditions.

NOTE: It is important to read and observe the cautionary statements and all other information appearing on the LO-VOL 4D label. Use only as directed.

NOTE: This labeling must be in the possession of the user at the time of pesticide application.

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Warranty and Limitation of Damages Seller makes no other express or implied warranty including any other express or implied warranty of fitness or of merchantability, and no agent of seller is authorized to do so except in writing with a specific reference to this warranty.