

CAUTION

Avoid contact with eyes, skin and clothing. In case of contact with wet killer, flush eyes with water. Avoid inhaling spray mist. May cause skin irritation. Avoid contamination of food stuffs. Harmful if swallowed. If swallowed, call a physician immediately. Contains petroleum solvent.

OBSERVE THESE PRECAUTIONS

Avoid application of spray or drift of spray to desirable plants as this product may injure cotton, tomatoes, beans, peas, most vegetables, ornamentals, grapes or others. Even minute quantities of the spray may cause severe injury. Accordingly, application by airplane should be made only when there is no hazard from drift. All sprays are likely to drift under certain conditions. The finer the spray, the greater the likelihood of drift effect. Coarser sprays are less likely to drift. Use only amount needed. DO NOT OVERDOSE.

Since vapors of the ester in this product may injure susceptible plants in the vicinity, use only where there is no danger from such vaporization.

Be sure that airplane spraying equipment has a quick acting effective cutoff valve, and is used from the lowest possible altitude by an air-craft operator experienced in the application of herbicides.

Do not use same equipment for other purposes. If necessary to use sprayer for any other spraying, be sure to thoroughly clean all equipment with a suitable chemical cleaner (1 qt. household ammonia in 20 to 25 gals. water, let stand overnight, then rinse thoroughly with water).

Do not store or place near fertilizers, seeds, plants, insecticides or fungicides. Do not use empty container (bottle) by burying in a safe place. Do not burn. Do not contaminate irrigation ditches or water used for domestic purposes.

Excessive amounts of Helena 24 D LV Ester in the soil may temporarily inhibit seed germination or plant growth.

Obtain necessary approval and/or permits for use in States or areas where required. Helena 24 D LV Ester exposed to sub-freezing temperatures should be warmed to at least 40° F. and mixed thoroughly before using.

Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of waste.

A selective emulsifiable oil-soluble herbicide.

FOLLOW DIRECTIONS CAREFULLY

Always mix with water or oil—Heater Oil or Diesel Fuel recommended as a carrier. Apply the recommended amount of Helena 24 D LV Ester per acre to the amount of material necessary to cover an acre with the spraying equipment used.

Apply 24 D sprays at low pressure of approximately 5 to 10 pounds with nozzles adjusted to give a coarse, wetting fan-shaped spray. For airplane application, adjust nozzles to produce a coarse, wetting spray of large droplets.

For best results apply 24 D sprays when soil and air moisture conditions are favorable to rapid growth. This product may be applied when temperatures range from 50° to 90°. Results may be unsatisfactory below 40° and above 90°. Sprays applied under adverse conditions (abnormally cool or hot and dry weather or when weeds are near maturity) should contain maximum recommended dosage. Under such conditions, control results may not always be entirely satisfactory.

Recommendations given are general. Because of variations in local conditions, consult Agricultural Experiment Station or Extension Service specialists.

TO CONTROL WEEDS IN RESISTANT CROPS

The following dosages are suggested on growing crops for the control of susceptible weeds such as Mustard, Sunflower, Lamb's Quarters, Pigweed, Ragweed, Buckle, Cocklebur, New Thistle, Marsh Elder, and many other species. Perennial weeds are best killed when in bud or in early bloom stage of growth.

WHEAT, OATS, RYE, and RYE—24 D sprays applied during seedling stage may reduce yields. When crop plants are flowering, seedlings, use 1 to 2 to 3.4 pints of 24 D LV Ester per acre and a maximum of 1 pint per acre when fully headed. Weeds controlled include: Barnyard, Smartweed, Canada Thistle, Hoar, Cress and Poison Ivy. Weeds controlled include: Barnyard, Smartweed, Canada Thistle, Hoar, Cress and Poison Ivy. Weeds controlled include: Barnyard, Smartweed, Canada Thistle, Hoar, Cress and Poison Ivy. Weeds controlled include: Barnyard, Smartweed, Canada Thistle, Hoar, Cress and Poison Ivy.

NON-WARRANTY NOTICE

Follow directions carefully. Seller warrants such directions to be proper and that product conforms to the descriptions on this label. Timing and method of application, weather and crop conditions and other influencing factors in the use of the product are beyond the control of the Seller, so Seller makes no other warranty, express or implied (including a warranty of merchantability), with reference to the results or effects of use. No person has authority to make any representation not contained on this label.

THIS CONTAINER IS NON-RETURNABLE

CONVERSION TABLE

24 D Acid Required	1 lb	3/4 lb	1/2 lb	3/8 lb	1/4 lb	1/8 lb
Amount 24 D LV Ester to use	2 pts	1 1/2 pts	1 pt	3/4 pt	1/2 pt	1/4 pt

NET CONTENTS

U.S. GALLONS

HELENA BRAND 2,4-D LV ESTER

**CAUTION: KEEP OUT OF REACH OF CHILDREN
SEE SIDE PANEL FOR ADDITIONAL CAUTIONS**

ACTIVE INGREDIENTS (by weight)

Isocetyl ester of 2,4-Dichlorophenoxyacetic acid 69.7%

(Equivalent to 66.3% of 2,4-Dichlorophenoxyacetic acid)

INERT INGREDIENTS (by weight)

30.3%

TOTAL 100.0%

1 gallon of Helena 24 D LV Ester contains the equivalent of 1 pound of 2,4-Dichlorophenoxyacetic acid

E.P.A. REG. NO. 5805-90

MANUFACTURED BY

HELENA CHEMICAL COMPANY

West Helena, Ark. — Tampa, Fla. — Lubbock, Texas

Des Moines, Iowa — West Columbia, South Carolina

AMOUNTS OF SPRAY MIXTURE TO APPLY

AIRPLANE APPLICATION—Water—Dilute recommended amount of Helena 24 D LV Ester in 3 to 5 gallons of water and apply per acre.

Oil—Dilute recommended amount in 1 gallon of Heater Oil or Diesel Fuel and apply per acre.

GROUND SPRAYERS—Dilute recommended amount in 5 to 20 or more gallons of water and apply per acre. The amount of water required will depend upon the crop and type of equipment used. Thorough agitation of spray mixture is necessary for best results.

CORN and SOYBEANS—24 D sprays may cause injury to stalks such as lodging, bending, and brittleness. The condition of brittleness may last 5 to 7 days during which time stalks are subject to breakage by high winds and cultivation. Avoid cultivating while this condition prevails. Plants generally recover from lodging or bending. Crops are most susceptible to injury during periods of rapid growth and do not apply from tasseling to dough stage. SOYBEANS may be seriously injured spray only when 4 to 12 inches tall. Pre-emergence sprays are not recommended.

Pre-emergence—On loam and finer textured soils, annual grasses, and some tolerant broadleaved weeds such as Purslane can be controlled with 1 to 2 quarts of Helena 24 D LV Ester applied before corn emergence. Do not treat corn planted in sandy soil. Heavy rains after treatment may cause some injury to germinating seeds and result in some early crop thinning. To reduce this risk plant corn one inch deeper than normal (2 1/2 to 3 inches). For band spraying (14 inch band with 40 inch corn row) use 1/2 dosage listed.

Post-emergence—Apply 1/2 pint of Helena 24 D LV Ester per acre. Spray as soon as majority of weeds are actively growing, but do not spray while corn is tasseling. Use extension nozzles to direct sprays away from the leaves of corn and sorghum that are 8 inches or more high.

Specific use only on susceptible crop formations of 2,4-D are recommended by state and local authorities. To control: Coffeebush, Dry Indigo, Redstem, Duck salad, Spikerush, Umbrella Hedge, Gooseweed, Arrowweed, Water Hyacinth, and Smartweed. In rice, apply Helena 24 D LV Ester at 1 to 2 pints per acre any time after rice is well thinned but before the jointing or boot stage (4 to 6 weeks after emergence; or where flooded, treat between 7 and 9 weeks after seedling when plants have emerged above water and leaves are standing erect). Rice plants are sensitive to 24 D in the early seedling, boot and early heading stages; avoid applications of Helena 24 D LV Ester during these stages of growth. Avoid drift to cotton or other 24-D susceptible crops.

ESTABLISHED PASTURES, FIELD and RANGE GRASSES—For control of most annual and many perennial broadleaved weeds use 1 to 2 pints per acre of Helena 24 D LV Ester, depending on the susceptibility of weeds. Apply in sufficient water for uniform coverage of weeds. Use the lower rate for hay to kill annual weeds and apply while they are small. Repeat if new weeds appear. Either spring or fall applications may be made.

For perennial weeds such as Blineweed, Canada Thistle, St. Johnswort and Gerle use 2 to 4 pints per acre of Helena 24 D LV Ester. In general, spray spring weed growth to bud stage and again or fall regrowth. Repeat applications for two or more successive years may be needed to control some weeds.

Keep dairy animals off treated areas for 7 days after treatment. Do not spray seedling grass nor while grass is in boot to milk stage. Do not mow grass within two days before or following treatment. In some areas bent, carpet, and buffalo grasses are susceptible to injury. Most legumes will be killed or injured with these rates of treatment.

TO CONTROL WEEDS ON GOLF COURSES, CEMETERIES, PARKS, AND OTHER LARGE TURF AREAS

Apply sprays containing 2 pints of Helena 24 D LV Ester per acre for most broad leaved weeds. Seedling grasses should not be sprayed until root systems are established and a soil has formed. Some injury to clover, creeping bent grass and St. Augustine grass may occur.

DEEP ROOTED PERENNIALS AND WOODY PLANTS ON NON-CROPPED AREAS

(Some rows, various lots, power lines)

Apply sprays containing 2 pints of Helena 24 D LV Ester per acre for control of most broadleaved weeds. Wet all the weed foliage thoroughly. Deep rooted perennial weeds such as Blineweed, Canada Thistle, Hoar, Cress and Poison Ivy may require 2 to 4 pints per acre and repeat applications may be necessary as new growth appears.

EMERGENT and MARGINAL AQUATIC WEEDS—To control Arrowweed, Creeping Water, Primrose, Water Lilly, Lotus, Pickerelweed, Smartweed, Spatterdock, and Waterwillow in ponds, lakes and drainage ditch banks, apply Helena 24 D LV Ester at 1 to 4 pints per acre in sufficient water to thoroughly spray all foliage. For spot treatment, mix 4 ounces Helena 24 D LV Ester per gallon of water. Apply first spray before bud or heading stage of weeds and repeat as necessary on regrowth. The addition of a surfactant or wetting agent to the spray solution may be advisable when application is made on more mature plants.

To control Buttrick, Cattail, Sweetflag, Buttonbush and Willow apply 1 to 1 1/2 gallons Helena 24 D LV Ester in 100 to 200 gallons Kerosene per acre. (For spot treatment mix 4 ounces Helena 24 D LV Ester per gallon of Kerosene). Thoroughly spray all foliage before seed is formed and repeat as necessary on regrowth. Avoid spray drift on 24-D susceptible crops.

Treat only 1 to 1 1/2 of the water area in a single application. Decreasing vegetation depletes the oxygen content of water and will result in fish kills if extensive areas are treated at one time. Consult your state fish and game agency before applying this product.

TO CONTROL WOODY PLANTS

HERB—Sprays containing 2 to 4 pints of Helena 24 D LV Ester in 50 to 100 gallons of water per acre can be used on such plants as Poison Ivy, Ramar, Poison Oak, Wild Grape, Sage Brush, and tree regrowth, when in full leaf. Cover vegetation completely. Such plants as Sage Brush that occur abundantly over large areas have been successfully sprayed by airplane, using sprays containing 2 to 4 pints in 1 to 2 gallons of oil per acre. Repeat application if new growth appears. Use Helena Brush Killer for general brush control.

LARGE TREES—On unwanted Wild Cherry, Buck Brush, Willow, Cottonwood and certain others, use sprays containing 2 to 4 pints of Helena 24 D LV Ester in 100 gallons of water and spray the leaf area thoroughly if growth is above 5 or 6 feet cut close to the ground and spray the stump thoroughly with a solution of 4 parts of Helena 24 D LV Ester in 100 gallons of Kerosene or fuel oil.

Small quantity usage—Thoroughly mix 1 1/2 to 2 teaspoons of Helena 24 D LV Ester in 1 gallon of water. Use a knapsack or compressed air type sprayer and apply sufficient spray to wet the weed foliage.

MADE IN U.S.A.

DO NOT RE-USE THIS CONTAINER FOR ANY PURPOSE