

CAUTION

Avoid contact with eyes, skin and clothing. In case of contact with weed 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.

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 airplanes 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. Coarse 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 aircraft 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 to 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 reuse empty container. Destroy by burying in a safe place. Do not burn. Do not contaminate irrigation ditches or water used for domestic purposes. Excessive amounts of Helena 2,4-D Amine in the soil may temporarily inhibit seed germination or plant growth.

Helena 2,4-D Amine exposed to sub-freezing temperatures should be warmed to at least 40° F. and mixed thoroughly before using.

Keep out of lakes, streams and ponds. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

A selective water soluble herbicide for the control of susceptible broadleaved weeds in growing small grain crops, corn, sugar cane, pastures, lawns, and turf.

FOLLOW DIRECTIONS CAREFULLY

Always mix with water, so as to apply the recommended amount of Helena 2,4-D Amine per acre in the amount of water necessary to cover an acre of ground with the spraying equipment used.

Apply 2,4-D sprays at low pressures of approximately 30 to 50 pounds, with nozzles adjusted to give a coarse, wetting, fan shaped spray. For airplane application adjust nozzle to produce a coarse, wetting spray consisting of large droplets.

For best results apply 2,4-D sprays when soil and climate conditions are conducive to rapid plant growth. This product may be applied when temperatures range from 50° to 95°; results may be unsatisfactory below 65° 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.

The recommendations given are general. Because of variation in crop and weeds, consult Agricultural Experiment Station or Extension Service weed specialists.

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

2,4-D Acid Required	1 lb.	3 1/2 lb.	12 lb.	35 lb.	125 lb.	150 lb.
Amount 2,4-D Amine to use	2 pts.	11 2/3 pts.	1 pt.	3 1/4 pt.	1 2/3 pt.	1 3/4 pt.

NET CONTENTS

U.S. GALLONS

HELENA

BRAND

2,4-D AMINE

CAUTION

KEEP OUT OF REACH OF CHILDREN

SEE ANTIDOTE AND OTHER WARNINGS ON SIDE PANEL

ACTIVE INGREDIENTS (by weight)

Dimethylamine salt of
2,4-Dichlorophenoxyacetic acid
(Equivalent to 41.2% 2,4-Dichlorophenoxyacetic acid) 19.6%

INERT INGREDIENTS (by weight)

TOTAL 50.4%

1 gallon of Helena 2,4-D Amine contains the equivalent of 4 pounds of 2,4-Dichlorophenoxyacetic acid.

ACCEPTED

5965-78

MANUFACTURED BY

HELENA CHEMICAL COMPANY

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

Des Moines, Iowa — West Columbia, South Carolina

Amounts of Spray Mix

AIRPLANE APPLICATION—Water—Dilute recommended Amine in 3 to 10 gallons of water and apply per acre.

GROUND SPRAYERS—Dilute recommended amount of water and apply per acre. The amount of water and type of equipment used. Thorough agitation best results.

TO CONTROL WEEDS IN RICE

The following dosages are suggested on growing rice, such as Mustard, Sunflower, Lamb's Quarters, Cocklebur, Sow Thistle, Marsh Elder, and many best killed when in bud or in early bloom stage.

WHEAT, OATES, BARLEY and RYE—2,4-D applied at growth may reduce yields. When crop plants a pint of Helena 2,4-D Amine per acre and 1 to 1 1/2 (stooled) but before the early boot stage.

Sprays containing 2 to 3 pints per acre may be a control measure when seed in heads is past dough stage.

When small grain is underseeded with a legume to 1 1/2 pint of Helena 2,4-D Amine per acre while and boot stage. The legumes are less likely to be canopy is allowed to develop before application is possible at low pressure in order to reduce penetration.

Consult your local authorities. **Fall applications** needed. Do not forage or graze treated grain field with 2,4-D. Do not feed treated straw to livestock.

CORN and SORGHUM—Corn varieties vary in susceptibility. Some injury to stalks such as lodging, generally recovers from lodging or bending. Stalks during which time they are subject to breakage by cultivating while this condition prevails. Injury is rapid.

Spray 1 pint of Helena 2,4-D Amine per acre actively growing. Do not apply 2,4-D sprays from 10 to 15 ft. nozzles to direct sprays away from the leaves or more high.

RICE—To control Curly Indigo, Coffee-weed and other weeds, apply Helena 2,4-D Amine at 1 to 2 1/2 pints per acre before the opening or boot stage (4 to 8 weeks after planting) or 7 and 9 weeks after seedling when a 10 to 15 inch seedling stage. Rice plants are sensitive and early seedling stages. Avoid applications at stages of growth. Avoid drift to cotton or other crops.

SUGAR CANE—Apply Helena 2,4-D Amine at 1 to 2 pints per acre to control broadleaved weeds.

TO CONTROL WEEDS ON NON-CROPS

Fence rows, vacant lots, etc.

Apply sprays containing 2 to 4 pints of Helena 2,4-D Amine in 100 gallons of water for control of weeds on non-crop areas. Resistant weed species may require 4 to 6 pints per acre and repeat every 2 to 3 weeks.

TO CONTROL WEEDS ON PASTURE, FARMS, CEMETERIES, AND LAKES

Apply sprays containing 2 to 4 pints of Helena 2,4-D Amine in 100 gallons of water for control of most broadleaved weeds. Use higher rate where major problems. Spray when weeds are growing and be sprayed until root systems are established. Injury to clover, creeping bent, carpet grass, and other desirable plants off treated areas for 7 days.

For use in hand sprayers, mix 1 1/2 to 2 teaspoon of water with 1 pint of spray.

EPA REG NO. 5905-72

DO NOT REUSE THIS CONTAINER

CAUTION

clothing. In case of contact with weed killer, flush spray mist. May cause skin irritation. Avoid contact with food. If swallowed, call a physician immediately.

THESE PRECAUTIONS

Drift of spray to desirable plants, as this product may kill most vegetables, ornamentals, grapes, or others. Spray may cause severe injury. Accordingly application should be made when there is no hazard from drift. All sprays are made in the open. The finer the spray, the greater the likelihood of drift.

NOT OVERDONE.

Product may injure susceptible plants in the vicinity, or from such vaporization.

Equipment has a quick acting, effective cutoff valve, suitable altitude by an aircraft operator experienced in such other purposes.

If necessary to use sprayer for any other purpose, thoroughly clean all equipment with a suitable chemical in 20 to 25 gals. water. Let stand overnight, then

disinfect, seeds, plants, insecticides, or fungicides. Do not bury in a safe place. Do not burn. Do not use for water used for domestic purposes. Excessive use in the soil may temporarily inhibit seed germination.

Sub-freezing temperatures should be warmed to at least 40° before using. Do not apply when weather conditions favor contaminating water by cleaning of equipment or disposal.

Use for the control of susceptible broadleaved weeds in corn, sugar cane, pastures, lawns, and turf.

INSTRUCTIONS CAREFULLY

To apply the recommended amount of Helena 2,4-D, use 100 gallons of water necessary to cover an acre of ground with

nozzles of approximately 30 to 50 pounds, with nozzles of fan shaped spray. For airplane application, adjust spray consisting of large droplets.

Sprays when soil and climatic conditions are favorable. This product may be applied when temperatures range from 65° to 90°. Sprays are unsatisfactory below 65° and above 90°. Sprays are unsatisfactory in cool or hot and dry weather or when there is too much rain. Recommended dosage. Under such conditions, not always be entirely satisfactory.

For general use, because of variation in local conditions, consult your local Extension Service weed specialists.

WARRANTY NOTICE

For warranty, such directions to be proper and that those on this label. Timing and method of application, and other influencing factors in the use of the product. Seller makes no other warranty, express or implied, or merchantability, with reference to the results of the use of the product, or representation not contained on this label.

CONTAINER IS NON-RETURNABLE

Conversion Table

Lb.	3.4 lb.	1.2 lb.	3.8 lb.	1.4 lb.	1.8 lb.
100	11.2 pps	1 pt.	3.4 pt.	1.2 pt.	1/4 pt.

U.S. GALLONS

HELENA

BRAND

2,4-D AMINE

CAUTION

KEEP OUT OF REACH OF CHILDREN
SEE ANTIDOTE AND OTHER WARNINGS ON SIDE PANEL

ACTIVE INGREDIENTS (by weight)

Dimethylamine salt of
2,4-Dichlorophenoxyacetic acid
(Equivalent to 41.2% 2,4-Dichlorophenoxyacetic acid) 99.6%

INERT INGREDIENTS (by weight)

TOTAL 100.0%

1 gallon of Helena 2,4-D Amine contains the equivalent of 4 pounds of 2,4-Dichlorophenoxyacetic acid.

ACCEPTED

June 1, 1962
5965-7A

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 2,4-D Amine in 3 to 10 gallons of water and apply per acre.

GROUND SPRAYERS—Dilute recommended amount in 8 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.

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, Dock, Cocklebur, Sow Thistle, Marsh Elder, and many other species. Perennial weeds are best killed when in bud or in early bloom stage of growth.

WHEAT, OATES, BARLEY and RYE—2,4-D sprays applied during seedling stage of growth may reduce yields. When crop plants are tillering (stooling), use 1/2 to 1 pint of Helena 2,4-D Amine per acre and 1 to 1 1/2 pints per acre when fully tillered (stooled), but before the early boot stage.

Sprays containing 2 to 3 pints per acre may be applied as an emergency weed control measure when seed in heads is past dough stage.

When small grain is underseeded with a legume such as alfalfa or clovers, use 1/4 to 1/2 pint of Helena 2,4-D Amine per acre while the small grain is between tiller and boot stage. The legumes are less likely to be injured if a small grain foliage canopy is allowed to develop before application is made. Apply the lowest gallonage possible at low pressure in order to reduce penetration of the canopy with the spray. Consult your local authorities. Fall applications of 2,4-D in crops are not recommended. Do not forage or graze treated grain fields within two weeks after treatment with 2,4-D. Do not feed treated straw to livestock.

CORN and SORGHUM—Corn varieties vary in susceptibility to injury. 2,4-D sprays may cause some injury to stalks such as lodging, bending, and brittleness. Plants generally recover from lodging or bending. Stalks may remain brittle 5 to 7 days, during which time they are subject to breakage by high winds and cultivation. Avoid cultivating while this condition prevails. Injury is mostly likely when crop is growing rapidly.

Spray 1 pint of Helena 2,4-D Amine per acre as soon as majority of weeds are actively growing. Do not apply 2,4-D sprays from tasseling to dough stage. Use extension nozzles and spray away from the leaves of corn and sorghum that are 8 inches or more high.

RICE—To control Curly Indigo, Coffeeweed and other broadleaved weeds in rice, apply Helena 2,4-D Amine at 1 to 2 1/2 pints per acre any time after rice is well tillered but before the jointing or boot stage (4 to 8 weeks after emergence) or where flooded, treated between 7 and 9 weeks after seedling, when plants have emerged above water and leaves are standing erect. Rice plants are sensitive to 2,4-D in the early seedling, boot, and early heading stages. Avoid applications of Helena 2,4-D Amine during these stages of growth. Avoid drift to cotton or other 2,4-D susceptible crops.

SUGAR CANE—Apply Helena 2,4-D Amine at 1 to 2 quarts per acre when cane is 1 to 2 feet tall to control broadleaved weeds.

TO CONTROL WEEDS ON NON-CROPPED AREAS

Fence rows, vacant lots, around buildings

Apply sprays containing 2 to 4 pints of Helena 2,4-D Amine per acre (or 2 to 3 quarts of Helena 2,4-D Amine in 100 gallons of water) for control of most broadleaved weeds. Use higher dosage to control more resistant weeds. Sufficient spray should be used to thoroughly wet all the weed foliage. Spray when weeds are growing actively. Deep rooted perennial weeds such as Bidweed, Canada Thistle, Hoary Cress, and Polygonum may require 4 to 6 pints per acre, and repeat application may be necessary as new growth appears.

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

Apply sprays containing 2 to 3 pints of Helena 2,4-D Amine per acre for control of most broadleaved weeds. Use higher rate where perennial broadleaved weeds are the major problem. Spray when weeds are growing actively. Seedling grasses should not be sprayed until root systems are established and seed has been formed. Some injury to clover, creeping bent grass, and St. Augustine grass may occur. Keep dairy animals off treated areas for 7 days.

For use in hand sprayers, mix 1 1/2 to 2 teaspoons of Helena 2,4-D Amine per gallon of water. Wet 1 foliage thoroughly.

EPA REG NO 3905-72

MADE IN U.S.A.

DO NOT RE-USE THIS CONTAINER FOR ANY PURPOSE