UNITED STATES ENVISORMENTAL PROTECTION AGENCY

VOC 8 1 588

Judy Oldham Helena Chemical Company Suite 3200 - Clark Tower 5100 Poplar Avenue Memphis, TN 38137

Dear Ms. Oldham:

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Subject: Revised Label Text

Helena 2,4-D Amine

EPA Registration No. 5905-72

Your Submission Dated May 10, 1991

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1) Due to new EPA policy, part of the Environmental Hazards section has been changed. To comply, change the sentence "Do not apply to water or wetlands (swamps, bogs, or marshes)" to read "Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark."
- 2) We understand that you wish to delete the Mixing/Loading Statement since the information was the same in the Groundwater Contamination Statement. However, the introduction paragraph to the Mixing/Loading Statement is still present in the label text immediately after the Directions for Use heading. This paragraph should be deleted as well.

A stamped copy is enclosed for your records. Please submit five (5) final printed copies for the referenced label, incorporating the above changes.

Sincerely yours,

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

CONCURRENCES								
BYMBOL ) H7505C								
SURNAME D. KENNY								
DATE \$5/24/91								
BPA Rom 1220 1 (12 70)	*	<del></del>	0000011 611 6 601					

#### HELENA

### 2,4-D AMINE

ACTIVE INGREDIENT:	BY WT.
*Dimethylamine salt of 2,4-Dichlorophenoxyacetic acid	46.67
INERT INGREDIENT:	53.47
TOTAL	100.07

\*2,4-Dichlorophenoxyacetic acid equivalent 38.7%-3.76 lbs. per gallon. Isomer specific by AOAC method 6.DO1-5.

### KEEP OUT OF REACH OF CHILDREN

CAUTION - CAUCION

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicada ampliamente.

### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water. Get

medical attention if irritation persists.

IF IN EYES: Flush with plenty of water. Get medical

attention if irritation persists.

SEE PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA REG. NO. 5905-72 EPA EST. NO. NET CONTENIS:

ACCEPTED
with COMMENTS
EPA Letter Dates

MANUFACTURED BY HELENA CHEMICAL COMPANY MEMPHIS, TN. 38137

MAY 2 4 1991

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

#### PRECAUTIONARY STATEMENTS

#### CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Avoid breathing spray mist. Avoid contact with skin, eyes and clothing. May produce skin sensitization reaction in certain individuals. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

#### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

#### GROUNDWATER CONTAMINATION

Most cas s of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

#### PROTECTIVE CLOTHING

When handling this product, wear chemical resistant gloves.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

## DIRECTIONS FOR USE

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

This product can reach groundwater as a result of mixing and loading. To minimize groundwater contamination from spills during mixing, loading and cleaning of equipment, take the following steps:

### RE-ENTRY STATEMENT

Do not enter treated area without protective clothing until sprays have dried (or, if appropriate, dusts have settled.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Do not apply this product in such a manner as to directly on through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure.) When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be undersood by workers. Written warnings must include the following information: ... CAUTION

Area treated with 2.4-D AMINE on (date of application).

Do not enter without appropriate protective clothing until sprays have dried. (Insert here actions to take in case of accidental exposure.)"

CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Protect from freezing. If stored below 32°F and crystals form, warm to 72°F for 24 hours, periodically rolling drum to reconstitute.

PESTICIDE DISPOSAL:

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Pesticide wates are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate, is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Metal Containers - Triple rinse (or equivalent). Then offer for cacycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

# OBSERVE THESE PRECAUTIONS

Avoid application of spray or drift of spray to desirable plants, as this product may injure cotton, tomatoes, beens, pees, most vegetables, ornamentals, grapes, or others. Even minute quantities of the spray may cause severe injury. Accordingly application by simplanes 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. Coerse 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 fowest possible attitude by an aircraft operator experienced in the application of herbicides.

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

# FOLLOW DIRECTIONS CAREFULLY

Always salz 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 climatic conditions are conductive 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 (abnormatly 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 varietal and local conditions, 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 tabel.

# THIS CONTAINER IS NON-RETURNABLE

#### Conversion Table

2,4-D Acid Required	1 lb.	3/4 lb.	1/2 lb.	3/8 lb.	1/4 lb.	1/8 lb.
Amount 2,4-D Amine to use	2 pts.	1 % pts	I pt.	3/4 pt.	1/2 pt.	1/4 pt.

# AMOUNTS OF SPRAY MIXTURE TO APPLY

AIRP AND ADDICATION — Water — Dilute recommended amount of Helena 2,4-D Amine in 3 to 10 patchs of water and apply per acre

GROUND SPRAYERS — Dilute recommended amount in 8 to 20 or more gallions of water and apply per acre. The amount of water required will depend upon the crop and type of equipment used. Thorough apitation of spray mixture is necessary for best results.

AFT WAY

TO CONTROL WEEDS IN RESISTANT CROPS

2,4-D Amine is a selective water soluble herbicide for the control of susceptible broadleaved weeds in growing small grain crops, corn, sugar cane, pastures, lawns, and turf.

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 when in bud or in early bloom stage of growth.

WHEATOATS, 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 measulia 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 filler 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 to direct sprays away from the leaves of com and sorghum that are 8 inches or more high.

RICE — To control Curly Indigo, Collegweed 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 joining, or boot stage (4 to 8 weeks after emergence; or where flooded, treated between 7 and 9 weeks after seeding, 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 aprays 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 dossine 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 Bindweed. Canada Thistle, Hoary Cress, and Poison Ivy may require 4 to 6 pints per acre, and repeat application may be necessary as new growth appears.

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