

Mr. Russell F. Sawyer  
Riverdale Chemical Company  
220 East 17th Street  
Chicago Heights, IL 60411

MAY 7 1987

Dear Mr. Sawyer:

Subject: Amendment - End-Use Directions  
Riverdale DP-4 Ester  
EPA Registration No. 228-196  
Your Submission Dated April 16, 1987

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
  - a. On the front panel after rights-of-way delete "Etc." This implies this product may be applied to sites other than those listed on the labeling.
  - b. Delete "Do not graze dairy animals on treated areas within 6 weeks after application. Do not graze meat animals on treated areas within 2 weeks of slaughter." Meat and milk tolerances have not been established for this herbicide under Part 180 of Title 40 of the Code of Federal Regulations. This pesticide is not registered for use on sites likely to be grazed (pasture, rangeland). These statements suggest grazing livestock on treated areas which could result in illegal residues of this pesticide in meat and milk.
  - c. The amended labeling supersedes previously accepted ones.

88357-I-Mountfort-VE-6-KENCO-5/5/87-5/13/87-bjp-VO-EK-kin

CONCURRENCES

SYMBOL	ORIGINATOR							
SURNAME								
DATE								

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Richard F. Mountfort *RFM*  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosure

(Front Panel)

RIVERDALE

DP-4 ESTER

A WOODY PLANT HERBICIDE

FOR CONTROL OF BRUSH AND SOLID STANDS OF POST, BLACKJACK, SANDSHINERY OAK AND SANDSAGE ON HIGHWAYS, FIREBREAKS, RAILROADS, DRAINAGE DITCHBANKS, RIGHTS-OF-WAY, (ETC.)

ACTIVE INGREDIENT:

Isooctyl Ester of 2-(2,4-Dichlorophenoxy)propionic Acid\* ..... 69.8%

INERT INGREDIENTS: ..... 30.2%

TOTAL ..... 100.0%

\*Equivalent to 2-(2,4-dichlorophenoxy)propionic Acid ..... 47.4%, 4#/gal.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 228-196

NET CONTENTS

GAL.

EPA EST. NO. 228-1L-1

Manufactured by

RIVERDALE CHEMICAL COMPANY

Chicago Heights, Illinois 60411-3699

ACCEPTED  
with comments  
MAY 7 1987  
EPA Reg. No. 228-196

(Right Panel)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through the skin. Do not induce vomiting. If vomiting occurs spontaneously, keep airway clean. Never give anything by mouth to an unconscious person. Seek medical attention.

NOTE TO PHYSICIAN: Aspiration hazard may contraindicate the use of gastric lavage.

DO NOT get in eyes. In case of contact, flush eyes with plenty of water for at least 15 minutes and seek medical attention. DO NOT allow contact with skin or clothing. Wash exposed skin gently with plenty of soap and water.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

Directions  
see 2,4-23  
but in 2,4-28  
2,4-29  
42545-31  
see 2,4-28  
2,4-29  
reg. 228-196  
see 2,4-28

(Right Panel cont.)

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING.

DP-4 Ester will control mixed brush such as post oak, blackjack oak, white oak, sand shinnery oak, red oak, pine, fir, spruce, black cherry, alder, willow, sandsage, elm, and similar species, as well as solid stands of post oak, blackjack oak, sand shinnery oak and sandsage along utility rights-of-way, highways, railroads, drainage ditchbanks and firebreaks.

FOLIAGE STEM METHOD:

This is the standard method for high-volume sprays along fencerows, highways, and utility rights-of-way. Use it as a "first spray" on thick brush composed of mixed species. Apply spray to both foliage and stems of all plants from the time foliage is fully developed until plants begin to go dormant. For effective control, all leaves, stems and suckers must be thoroughly wet to ground line. Some regrowth may be expected on resistant species, such as ash, maple, oak and permission.

To control mixed brush, add 1 gallon of DP-4 Ester to 99 gallons of water. Mix thoroughly before spraying. Apply 100 to 300 gallons of spray mixture per acre.

Up to 5 gallons of oil per 100 gallons may be added to these spray mixtures.

RAILROAD ON-TRACK APPLICATION:

For use with the DIRECTA-SPRA<sup>(R)</sup> spray applicator mounted on Hi-Rail equipment, use 3 gallons of Riverdale DP-4 Ester in 25-50 gallons of water per acre. For added drift control, add 2-2.5 ounces LO-DRIFT<sup>TM</sup> Spray Additive in each 25-50 gallons water. If higher total spray volumes are needed, do not apply more than 3 gallons DP-4 Ester per acre.

AERIAL APPLICATION:

Aerial spraying is a specialized job. Secure qualified technical guidance for each job and employ a competent, reliable applicator. Become familiar with state laws governing the application of herbicides. Do not use aerial sprays in areas where possible drift may injure valuable crops or plants.

UTILITY RIGHTS-OF-WAY:

For aerial application to mixed brush along utility rights-of-way, apply 2-3 gallons of DP-4 Ester in 12 to 30 gallons of water per acre. One gallon of fuel oil may be added.

Apply spray only through equipment designed to provide effective drift control. A helicopter-mounted MICROFOIL<sup>(R)</sup> applicator or other equipment that provides equivalent drift control is recommended.

SOLID STANDS OF OAK OR SANDSAGE:

Apply chemicals with fixed wing or helicopter aircraft using 5 gallons of spray mixture per acre. Spray when plants have just developed full-sized leaves, when soil moisture is sufficient for good growing conditions, when relative humidity is high, and wind velocities are less than 5 miles per hour. Spray season normally runs from early May to mid-June in Texas, California and New Mexico and from mid-May to early July in Oklahoma and northward.

AMOUNTS PER ACRE

Types of Brush	Quarts DP-4 Ester	Oil Gals.	Water Gals.	Remarks
Post & blackjack oak	2	1/2	4	Re-treat the 2nd year with 1 quart per acre

( Right Panel cont.)

Sand shinnery oak	$\frac{1}{2}$	$\frac{1}{2}$	4-3/8	Retreat the 2nd year with $\frac{1}{2}$ quart per acre
Sandsage	$\frac{1}{2}$	$\frac{1}{2}$	4-3/8	

## TO PREPARE SPRAY:

Add this product to the proper amount of oil, if any, and mix thoroughly. Then pour this mixture into the required amount of water while agitating continuously. This material forms an emulsion in water-not a solution. Provide agitation to prevent separation and insure a uniform spray mixture.

(Left Panel)

## AERIAL OR GROUND APPLICATION TO CONTROL MIXED BRUSH INCLUDING CONIFERS AND ROOT SUCKERING SPECIES ON UTILITY, RAILROADS AND HIGHWAY RIGHTS-OF-WAY AND FENCEROWS:

Where red maple, conifers and root-suckering species such as sassafras, sumac, black locust or persimmon are the major problem, use 1 to 2 $\frac{1}{2}$  gallons DP-4 Ester in combination with 1 to 2 $\frac{1}{2}$  gallons AMDON 101 or Tordon\* 101 herbicide mixture or in combination with 3 to 6 pints AMDON K or Tordon\* K herbicide. Dilute with water and apply in a total spray volume of 15 to 50 gallons per acre. Use lower rates to control brush on sandy soils or coarse soils with susceptible species such as seedling aspen, cherry, willow and sumac. Use higher rates to control brush on clay soils or fine soils or rocky terrain with more resistant species such as maple, oak, pine and red cedar. When making the spray mixture, add Riverdale DP-4 Ester to the required amount of water while agitating the mixture in the spray tank. Then add the AMDON 101 or AMDON K while continuing agitation. (Do not mix concentrates of DP-4 Ester with concentrates of AMDON 101 or AMDON K.) Aerial application of the tank mixture should be made only with a helicopter mounted MICROFOIL<sup>(R)</sup> applicator or an equipment system providing equivalent drift control. Ground applications to control brush on railroad or utility rights-of-way should be made only with the DIRECTA-SPRA<sup>(R)</sup> spray applicator or an equipment system providing equivalent drift control. Do not use these tank mixtures on drainage ditch-banks or firebreaks. Observe all restrictions, precautions and limitations on the labeling of each product used in tank mixtures.

**PRECAUTION:** Do not apply DP-4 Ester near, directly to, or permit spray mist to drift onto cotton, okra, grapes, tomatoes, fruit trees, vegetables, flowers or other desirable crop or ornamental plants which are susceptible to 2,4-DP herbicide. Very small quantities of DP-4 Ester will cause severe injury during the growing or dormant periods. Crops contacted by DP-4 Ester sprays or spray drift may be killed or suffer significant stand loss with extensive quality and yield reduction. Do not apply when weather conditions favor drift from target area.

Do not use the same spray equipment for other purposes unless thoroughly cleaned. Do not contaminate irrigation ditches or water used for domestic or irrigation purposes especially in areas where grapes, cotton, tomatoes or other susceptible plants are grown. Do not use in a greenhouse.

Do not graze dairy animals on treated areas within 6 weeks after application. Do not graze meat animals on treated areas within two weeks of slaughter.

Do not apply when a temperature air inversion exists. Such a condition is characterized by little or no air movement and an increase in air temperature with an increase in height. In humid regions a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. If questions exist pertaining to the existence of an inversion, consult with local weather services before making an application.

Use coarse sprays to minimize drift. Do not apply with hollow cone-type insecticide or other nozzles that produce fine spray droplets. Do not apply when any wind is blowing toward sus-

(Left Panel cont.)

ceptible crops or valuable plants.

Drift from aerial application may be reduced by: (1) applying as near to the target as possible in order to obtain coverage, (2) by using 20 pounds pressure or less at the nozzle tips, (3) by using nozzles which produce a coarse spray pattern, (4) by spraying only when the wind velocity is less than 5 miles per hour, (5) by applying sprays at low pressure and high volume, (6) by applying 5 or more gallons of spray per acre.

Drift from ground application may be reduced by: (1) keeping the spray as near to the target as possible in order to obtain complete coverage, (2) by applying 25 gallons or more of spray per acre, (3) by using no more than 20 pounds of pressure at the nozzle tips, (4) by using nozzles which produce a coarse spray pattern, (5) by applying sprays at low pressure and high volume.

Under very high temperatures, vapors from this product may injure susceptible plants in the immediate vicinity:

Local conditions may affect the uses of this chemical as shown on this label. Consult State Agricultural Extension or Experiment Station Weed Specialist for specific recommendations for local weed problems and for information on possible lower dosages.

#### STORAGE AND DISPOSAL

**STORAGE:** Always store pesticides in a secured warehouse or storage building. Do not store near seeds, fertilizers, insecticides or fungicides. Container should be opened in well ventilated areas. Keep container tightly sealed when not in use. Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE DISPOSAL:** If container is damaged or if pesticide has leaked contain all spillage. Absorb and clean up all spilled material with granules or sand. Place in a closed labeled container for proper disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

\*Trademark of the Dow Chemical Company.

**NOTICE:** Riverdale Chemical Company warrants that this product conforms to the chemical description on this label. Seller makes no warranty, express or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.