

COPY REDUCED TO FIT U.S. EPA 8 1/2" x 11" REQUIREMENTS

ACCEPTED

REC 6 1989

No. 228-146

Riverdale

DP-4 ESTER

A WOODY PLANT HERBICIDE

FOR CONTROL OF BRUSH AND SOLID STANDS OF POST, BLACKJACK, SAND SHINNERY OAK AND SANDSAGE ON HIGHWAYS, FIREBREAKS, RAILROADS, DRAINAGE DITCHBANKS, AND RIGHTS-OF-WAY.

ACTIVE INGREDIENT:
Isocetyl 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 lbs./gal.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANELS

FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 228-196

EPA EST. NO. 228-IL-1

NET CONTENTS GAL.

**MANUFACTURED BY
RIVERDALE CHEMICAL COMPANY
GLENWOOD, ILLINOIS 60425-1584**

BEST AVAILABLE COPY

DIRECTIONS FOR USE (Continued)

Apply spray only by helicopter or other equipment that provides effective drift control. A helicopter mounted MICROPOL® applicator or other equipment that provides equivalent drift control is recommended.

SOLID STANDS OF BRUSH 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 10 miles per hour. Spray seasons normally run from early May to mid-June in Texas, California and other southern and semi-arid states to early July in Oklahoma and northeast.

Amount (gpg/acre)	Leaves	Oil	Water	Remarks
Type of Brush	DP-4 Ester	Gal.	Gal.	
Post & Blackjack oak	2	1/4	4	Re treat the 2nd year with 1 quart per acre
Sand Shinnery oak	1/2	1/4	4-1/2	Re treat the 2nd year with 1/2 quart per acre
Sandsage	1/2	1/4	4-1/2	

NO PREPARATION: 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 ensure a uniform spray mixture.

POST RELEASE (BURNED) SPRAY: To control hickory, sweetgum, oak, wax myrtle, choptain, hickory, cherry, sweet, sweetgum and other species in pine plantations, apply a mixture of 1 gallon DP-4 ESTER + 20 gallons of water to the foliage of competing hardwood brush species. Apply with a backpack or tender sprayer with a hand-held wand and spray nozzle. For best results, apply when hardwoods are in full bud and actively growing and when soil moisture is high. Brush foliage should be thoroughly covered but not wet. Avoid spraying the planted pines, as some needle damage may result.

Application to a 1 to 3 year old pine plantation with 2-4" brush of average density should require 5 to 10 gallons of spray mixture per acre.

Brush species such as hickories, oaks and yellow oak another highland species through coverage for good results. Brush species such as red maple, oak or dogwood are not usually controlled by this treatment.

ACTUAL ON-GROUND APPLICATION TO CONTROL WOOD BRUSH INCLUDING CORNELIS AND ROOT SUCKERING SPECIES ON WILLYTS, RAILROADS AND HIGHWAY RIGHTS-OF-WAY AND FENCELINES:

Where red maple, oaks and root-suckering species such as cornelias, sumac, black locust or persimmon are the major problem, use 1 to 20 gallons DP-4 Ester in combination with 1 to 20 gallons Tender® 80 or Tender® 80 herbicide mixture or in combination with 3 to 6 quarts Tender® K herbicide. Dilute with water and apply in a fixed spray volume of 15 to 50 gallons per acre. Use lower rates to control brush on sandy soils or stream beds with susceptible species such as seedling oaks, cherry, yellow and sumac. Use higher rates to control brush on clay soils or the oak or red maple stands with more resistant species such as maple, oak, pine and red cedar. When covering the spray mixture, add DP-4 Ester to the required amount of water while agitating the mixture in the spray tank. Then add the Tender® 80 or Tender® K while continuing agitation. Do not mix concentrates of DP-4 Ester with concentrates of Tender® 80 or Tender® K. Aerial application of the herbicide should be made only with a helicopter mounted MICROPOL® applicator or an equivalent system providing equivalent drift control. Ground applications to control brush on railroad or utility rights-of-way should be made only with the DIRECTA-SPRAY® spray applicator or an equivalent system providing equivalent drift control. Do not use these herbicide mixtures on drainage ditches or firebreaks. Observe all restrictions, precautions and limitations on the labeling of each product used in this mixture.

Local conditions may affect the use of this chemical as shown on this label. Consult state agricultural extension or equipment dealer used regarding specific recommendations for local weed problems and for information on possible liner damage.

STORAGE AND DISPOSAL

STORAGE: Always store pesticides in a covered warehouse or storage building. Do not store near acids, fertilizers, insecticides or explosives. Container should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not store near 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.
MICROPOL®, DIRECTA-SPRAY®, and LOGO® - Registered Trademarks of Pheno Products.
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.

BEST AVAILABLE COPY

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

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

ADVICE 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. Seek medical attention. DO NOT allow contact with skin or clothing. Wash exposed skin with plenty of soap and water.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands. Do not contaminate water when disposing of empty spray containers. Do not apply this product through any type of irrigation system, or apply where or where runoff is likely to occur.

DIRECTIONS FOR USE

Follow all Federal law to use this product in a manner inconsistent with its labeling. READ LABEL BEFORE USING.

Do not control mixed brush with post oak, blackjack oak, white oak, sand shinnery oak, white, br. spruce, black cherry, alder, willow, sandalwood, elm, and similar species, as well as stands of post oak, blackjack oak, sand shinnery oak and sandsage along utility rights-of-way, railroads, drainage ditchbanks and firebreaks.

NOTE: Do not apply DP-4 Ester mist, directly to, or permit spray mist to drift onto oaks, pines, hemlocks, fruit trees, vegetables, flowers or other desirable crop or ornamental plants susceptible to 2,4-DP herbicides. They are small quantities of DP-4 Ester will cause severe injury or growing of desirable plants. Groups mentioned by DP-4 Ester sprays or spray drift may be further specified stand loss with extensive quality and yield reduction. Do not apply when conditions favor drift from target area.

Do not use spray equipment for other purposes unless thoroughly cleaned. Do not use equipment to spray water used for domestic or irrigation purposes especially in areas where oaks, hemlocks or other susceptible plants are grown. Do not use as greenhouse spray when a temperature of 100 degrees exists. Such a condition is characterized by late or no bud break and an increase in air temperature with an increase in height. In humid regions mist may form. An inversion may be detected by producing a smoke column and checking the effect. If conditions exist prohibiting the existence of an inversion, consult with local services before making an application.

Sprays to maintain drift. Do not apply with follow core-type nozzles or other nozzle that fine spray droplets. Do not apply when any wind is blowing toward susceptible crop or plants.

Field application may be obtained by: (1) applying as near to the target as possible in (a) low coverage, (2) by using 20 pounds pressure of less at the nozzle tip, (3) by using which produce a coarse spray pattern, (4) by spraying only when the wind velocity is less than 10 mph, (5) by applying sprays at low pressure and high volume, (6) by applying 5 gallons of spray per acre.

Ground application may be obtained by: (1) keeping the spray as near to the target as possible 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 tip, (4) by using nozzles which produce coarse spray pattern, (5) by applying sprays at low pressure and high volume.

High temperatures, vapors from this product may injure susceptible plants in the immediate area.

FIELD INSTRUCTIONS: This is the standard method for high-volume sprays along fence rows, utility rights-of-way, etc. Use it as a "test spray" on thick brush composed of mixed species. If both foliage and stems of all plants from the target foliage a fully developed seed plants are present. For effective control, all leaves, stems and twigs must be thoroughly wet. Some sprays may be applied on resistant species, such as oak, maple, oak, and L.

Initial brush, add 1 gallon of DP-4 Ester to 50 gallons of water. Mix thoroughly before spraying 100 to 200 gallons of spray mixture per acre.

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

NO-TRACE APPLICATION: For use on the DIRECTA-SPRAY® spray applicator mounted equipment, use 3 gallons of Riverdale DP-4 Ester in 25-50 gallons of water per acre. For control, add 2-2.5 ounces LOGO® Spray Adhesive in each 25-50 gallons water. If 1 spray volume is needed, do not apply more than 3 gallons DP-4 Ester per acre.

FLUORESCENT WILLYTS IDENTIFICATION: Avoid spraying in a wooded area. Consult qualified personnel for each job and employ a competent, reliable applicator. Become familiar with the application of herbicides. Do not use aerial sprays in areas where possible other valuable crops or plants.

Application to mixed brush along utility rights-of-way, apply 2.3 gallons of DP-4 Ester in 50 gallons of water per acre. One gallon of fuel oil may be added.