

228-282

6/10/2003

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RIVERDALE®

DRI D + DP AMINE

A WOODY PLANT HERBICIDE FOR CONTROLLING MIXED BRUSH ON UTILITY RIGHTS-OF-WAY, HIGHWAYS, DRAINAGE DITCHBANKS, FENCE ROWS AND SOLID STANDS OF OAK OR ELM. CONTROLS NOXIOUS PERENNIAL WEEDS ON NON-CROPLAND.

ALSO CONTROLS ANNUAL AND PERENNIAL BROADLEAF WEEDS IN ORNAMENTAL TURF AREAS, LAWNS, GOLF COURSES, PARKS, ATHLETIC FIELDS, AND SIMILAR SITES.

ACTIVE INGREDIENTS:

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*	46.96%
Dimethylamine Salt of 2-(2,4-Dichlorophenoxy)propionic Acid**	46.49%
INERT INGREDIENTS:	6.55%
TOTAL	100.00%

Isomer Specific AOAC Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	39%
**2-(2,4-Dichlorophenoxy)propionic Acid	39%

Riverdale is a Registered Trademark of Riverdale - A Nufarm Company

For use by professional turf maintenance personnel, landscaping or commercial applicators only.

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

SEE SIDE PANELS FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 228-282

NET CONTENTS LBS.

EPA EST. NO. 228-IL-1

MANUFACTURED BY NUFARM AMERICAS, INC., BURR RIDGE, ILLINOIS 60527-0866

NOTE: Spanish language is optional

ACCEPTED

JUN 10 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act.
Registered for the pesticide
228-282

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

DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, or on skin or clothing. Wash nondisposable gloves thoroughly with soap and water before removing. Remove saturated clothing as soon as possible and shower.

Please see additional Precautionary Statements in Directions For Use instructions.

FIRST AID STATEMENT

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN
OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**NOTE TO
PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or run-off may adversely affect aquatic invertebrates and non-target plants. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. When cleaning equipment, do not pour washwaters on the ground, spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate irrigation ditches or water used for domestic purposes. If spills occur, collect the material and dispose of by following disposal instructions on this label. Use care to avoid spray contact or drift to 2,4-D or 2,4-DP susceptible plants such as okra, cotton, tomatoes, flowers, grapes, fruit trees, vegetables and ornamentals. Do not permit spray mist containing this product to drift onto them since even very small quantities of the spray, which may not be visible, can cause severe injury during both growing and dormant periods. Do not spray when the wind is blowing towards susceptible crops or ornamental plants. Use coarse sprays to minimize drift. Spray drift can be lessened by keeping the spray boom as low as possible; by applying 20 gallons or more of spray per acre; by using 20 pounds spraying pressure with flat fan or flooding flat fan nozzle tips; by spraying when wind velocity is low; and by stopping all spraying when wind exceeds 6 to 7 miles per hour. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine droplet spray. Do not use in greenhouses. Do not use the same spray equipment for applying other materials to 2,4-D susceptible crops as injury may result.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and 2,4-DP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these 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.

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 THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

For use on plants in non-crop and non-timber areas only. Not for use on trees, crops, turf or other plants being grown for sale or other commercial use, including turf use as sod, or for commercial seed production, or for the production of timber or wood products, or for research purposes.

BRUSH CONTROL**ADDITIONAL PRECAUTIONARY STATEMENTS FOR INDUSTRIAL USES**

When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical resistant gloves, long-sleeved shirt, long pants, socks and shoes. It is recommended that safety glasses include front, brow and temple protection. For aerial applicators in an enclosed cockpit and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required. Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. Wash hands, face and arms with soap and water before eating, smoking and drinking. Wash hands, face and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry.

Riverdale Dri D + DP Amine is specifically designed for utilities and other industrial users to control woody plants. This product also controls many noxious perennial weeds on non-croplands, such as along highways, drainage ditchbanks and fence rows. The following is a partial list of weeds controlled: Alder, Ash*, Aspen, Birch, Blackberry, Black cherry, Black jack oak, Black locust, Box elder, Brambles, Buckbrush, Ceanothus, Chamise, Coffeeberry, Currant, Dewberry, Dogwood, Elderberry, Elms, Fir, Gooseberry, Greenbrier, Gum, Hemlock, Honeysuckle, Kudzuvine, Locust, Manzanita, Maples*, Multifloral rose, Oaks, Osage orange, Palmetto, Persimmon*, Pine, Poison ivy, Poison oak, Poplar, Raspberry, Red elder, Salmonberry, Sand sagebrush, Sassafras, Serviceberry, Shinnery oak, Snowberry, Spicebush, Spruce, Sumac, Sweetgum, Sycamore, Tulip poplar, Virginia creeper, Wild cherry, Wild grape, Wild rose, Willow, Winged elm, Yerba santa, and many other species.

*Best controlled by Stump or Basal Treatment.

TO PREPARE THE SPRAY: Add one-half the required amount of water to the spray tank, then add this product with agitation and finally, the balance of the water with agitation. This material forms a true solution in water. It does not require additional agitation after the initial thorough mixing, and does not volatilize under proper spraying conditions.

FOLIAGE STEM TREATMENT: This is the standard method for high-volume sprays along fence rows, highways and rights-of-way. Use as a first spray on thick brush composed of mixed species. Apply to both stems and foliage from the time foliage is completely matured until the plants start to go dormant. All leaves, stems and suckers must be completely wet to the ground line for effective control. Regrowth may be anticipated on the more resistant species, such as oak, maple, ash and persimmon. Add 5 to 7-1/2 pounds of Riverdale Dri D + DP Amine to 100 gallons of water using 200 to 600 gallons of spray mixture per acre, depending upon the height and thickness of the brush. Mix thoroughly before spraying.

SPOT TREATMENT: For spraying with backpack sprayer - mix 5 oz. Riverdale Dri D + DP Amine with 5 gallons of water. Wet brush stems and foliage thoroughly.

BASAL BARK TREATMENT: Thoroughly wet the base and root collar of all stems until the spray accumulates around the root collar at the ground line. This spray may be applied during any season. Use Riverdale Dri D + DP Amine for basal bark treatment on scattered brush or as a second spray application on species resistant to first foliage application.

Mix 15 to 20 pounds of Riverdale Dri D + DP Amine in 100 gallons of water. Apply with a low volume sprayer or power equipment. Application rate will depend on species present, season applied and volume of spray used. Use a coarse spray to avoid drift.

MODIFIED BASAL TREATMENT: Drench the base of plants, then wet the lower 4/5 of remaining stems and leaves thoroughly to runoff. Apply treatment when brush is in full foliage. This method can be applied where susceptible species have been controlled by prior sprays, and more resistant species such as maple and oak remain. Soaking the base of the plant and wetting all stems to runoff is absolutely necessary for complete control.

EARLY AND LATTER PART OF SPRAYING SEASON, AND DURING DRY WEATHER: Add 7-1/2 pounds of Riverdale Dri D + DP Amine to 100 gallons of water and mix thoroughly.

CUT SURFACE TREATMENT - STUMPS: This treatment may be used any time of the year, however, it is more effective when applied as quickly as possible after trees are cut. Spray the entire stump, especially exposed roots and bark. A complete soaking is essential for effective control. Use this procedure after original or capital removal. It is the first step towards a chemical brush control program on newly cleared highways and rights-of-way. The spray is most effective and profitable on stumps 3 to 4 inches and larger. Mix 15 to 20 pounds of Riverdale Dri D + DP Amine in 100 gallons of water. Application should be made with a low volume knapsack sprayer using a solid cone-shaped nozzle medium orifice.

CONCENTRATE STUMP TREATMENT: For small (up to 3 inch diameter) stems, cut them as close to the ground as possible. Mix 8 pounds of D + DP Amine with 1 gallon of water and apply Riverdale Dri D + DP Amine directly to the surface of the freshly cut stump.

FRILL: Make a frill using an axe to cut overlapping V-shaped notches in a continuous ring, and cut around the trunk near its base. Cut through the bark, but do not remove the chips. This method is recommended for all trees 5 to 6 inches in diameter and larger. Freshly cut frills can be treated any time of the year. Mix 15 to 20 pounds of Riverdale Dri D + DP Amine in 100 gallons of water. Pour in as much of the mixture as the frills will hold without wasting the chemical.

POWERED KNAPSACK BASAL SPRAY: Mix 40 to 70 pounds of Riverdale Dri D + DP Amine with water to make 100 gallons of spray solution. Apply with a portable knapsack mistblower to lower brush stems. Apply spray to all sides of stems; good root collar coverage is essential. Run knapsack mistblower at 1/4 to 1/3 throttle for best spray delivery and coverage. For maximum drift control, use a basal nozzle attachment. Do not raise spray nozzle above horizontal position.

FENCE ROW APPLICATION: To control mixed brush, perennial and annual broadleaf weeds, use one of the application methods such as the foliage stem method described on this label. Some regrowth may be expected on resistant species such as ash, maple, oak and persimmon.

LOW VOLUME STEM FOLIAGE SPRAY - AERIAL OR GROUND: Apply the spray only through equipment designed to provide effective drift control.

MIXED BRUSH - UTILITY RIGHTS-OF-WAY: For aerial application to solid stands of brush, use 2-1/2 to 5 pounds in 3 to 12 gallons volume per acre.

SOLID STAND OF OAK OR ELM: Apply with fixed-wing or helicopter aircraft. Apply in the Spring after hardwoods have just developed full sized leaves. The spray season normally runs from early May to mid-June in Texas and California, and from early May to early July in Oklahoma and Northward. Spray when wind velocities are less than 5 miles per hour.

BRUSH	Dri D + DP Amine	Add Water to Make Total of
post, blackjack oak and winged elm	4 pounds	6 gallons
sand shinnery oak	1-1/2 to 2 pounds	4 gallons

For maximum control, use higher rate and repeat spray the second year if necessary, using 1-1/2 pounds Riverdale Dri D + DP Amine per acre.

FORESTRY SITE PREPARATION: To reduce competition from mixed trees and brush before planting forest trees. Apply 5 pounds Riverdale Dri D + DP Amine for easy-to-control species such as aspen, hazel, alder, sassafras, sumac, black locust willow, and other similar species. Apply ten pounds Riverdale Dri D + DP Amine to control more difficult species such as oaks, sweet gum, black gum, hickory and tulip-poplar.

Mix with water to make 10 gallons total solution when applying as an aerial spray or 20 gallons total solution when applying as a ground spray. Do not apply to established plantations as this spray mix will injure planted conifers.

PINE RELEASE: To control hardwood brush and release Northern conifers such as red pine, Jack pine, white pine and white spruce.

Apply 2-1/2 to 5 pounds Riverdale Dri D + DP Amine as a broadcast spray in 10 gallons of water per acre. Make applications in midsummer after pine height growth is complete and the conifer buds are set. Riverdale Dri D + DP Amine will control aspen, birch, cherry, alder, hazel, oaks, and similar species. It will not, at these rates, provide satisfactory control of red maple, sugar maple or ash.

TURF CONTROL

ADDITIONAL PRECAUTIONARY STATEMENTS FOR TURF CONTROL

When using this product, wear long-sleeved shirt, long pants, socks, shoes, rubber gloves and eye protection. It is recommended that safety glasses include front, brow and temple protection. In addition to the clothing and eye protection listed above, commercial mixer/loader/applicators must wear chemical-resistant in place of rubber gloves except when the product is applied to a golf course. After using this product, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

Lawns and other ornamental turf grass areas - Riverdale Dri D + DP Amine is recommended for professional weed control of broadleaf weeds in lawns, ornamental turf, and similar turf areas. This treatment may injure bentgrass, St. Augustinegrass, centipedegrass, carpetgrass and newly seeded lawns. If necessary to control weeds in such turf, use half the recommended rate in chart and repeat application in 2 to 3 weeks. Do not apply to Lippia, Dichondra and where desirable Clovers are present nor on bentgrass greens and tees as severe turf injury may result. Do not use this product to control weeds in flower and vegetable beds, shrubs and ornamental plantings. Spray when air is calm to avoid spray drift that might injure nearby desirable plants. A separate sprayer should be kept for killing weeds as 2,4-D and related chemicals are difficult to clean from equipment.

The following is a partial list of weeds controlled in turf by Riverdale Dri D + DP Amine.

MORE SUSCEPTIBLE WEEDS

Black medic, Brambles, Buckhorn plantain, Bull thistle, Burdock, Buttercup, Canada thistle, Carolina geranium, Chickweeds (common and mouseear), Chicory, Clovers, Cocklebur, Cudweed, Dandelion, *English daisy, Fleabane, Frenchweed, Ground ivy, Hawkweed, Healall, Henbit, Honeysuckle, Jimsonweed, Knotweed, Kudzu, Little starwort, Morningglory, Mustards, Oxalis (yellow woodsorrel), Pennywort, Peppergrass, Plantains (narrow or buckhorn broadleaf), Poison ivy, Poison oak, Poorjoe, Povertyweed, Purslane, Sheep sorrel, Shepherdspurse, Smartweed, Soliva, Sowthistle, Speedwell (annual), *Spurge, Sumac, Wild aster, Wild blackberry, Wild garlic, Wild geranium, Wild onion, Wild radish, Wild raspberry, Yarrow.

*Treat in Spring and again in Fall.

LESS SUSCEPTIBLE WEEDS

Bindweed, Dock, Eveningprimrose, Falsedandelion, Florida pusley, Kochia, Lambsquarters, Mallow, Pigweed, Ragweed, Vervain, Vetch, Violet, Wild carrot, Wild lettuce.

This product is NOT effective on perennial veronicas or on weed grasses.

PREPARATION OF THE SPRAY: Fill the spray tank with half of the required amount of water, then add the recommended amount of Riverdale Dri D + DP Amine herbicide with agitation and finally the balance of the water with agitation. This material forms a true solution in water. It does not require additional agitation after the initial thorough mixing, and does not volatilize under proper spraying conditions. Apply any time broadleaf weeds are growing actively. Dandelion, plantain, woodsorrel and clovers are best treated in the Fall or in Spring before flower heads develop. Winter weeds such as chickweeds and henbit should be treated in early Spring.

Summer weeds such as oxalis, knotweed and sparges should be sprayed when they are small. Resistant weeds such as bindweed and violets may require 4 pounds per 40,000 square feet and should be retreated whenever new growth appears. In areas with extended growing seasons such as California, treatment in both Spring and Fall may be needed to control more resistant species.

On turf to be over-seeded in the Fall, treatment should be scheduled at least 4 weeks before the planned seeding date. Rainfall (1/4 inch or more) or irrigation should occur prior to seeding. Fall-seeded lawns (turf) may be treated the following Spring. Spring-seeded lawns (turf) may be treated after the grasses have sprouted and been cut at least twice, generally 6 to 10 weeks after seeding, depending on germination and growth rate.

For established lawns (turf), Fall treatment fits into a good turf management program. Proper fertilization and mowing should be combined with chemical weed control to thicken the turf after weeds have died and to discourage more weeds from invading.

HOSE ATTACHED SPRAYERS (LAWN MODELS): Use 1/2 oz. of Riverdale Dri D + DP Amine herbicide diluted with water to the 3 to 5 gallon mark on the sprayer jar for each 500 square feet (25' x 20') of lawn area to be sprayed. Adjust water pressure so that spray streams about 10 to 15 feet with no misting.

AMOUNTS TO USE

Riverdale Dri D + DP Amine	AREA COVERED	WATER VOLUME
1/2 ounce	1,000 square feet	1 to 4 gallons
5 ounces	5,000 square feet	5 to 20 gallons
10 ounces	10,000 square feet	10 to 40 gallons
2-1/2 pounds	40,000 square feet	40 to 160 gallons
3-3/4 pounds (resistant weeds)	40,000 square feet	40 to 160 gallons

RIVERDALE DRI D + DP AND BANVEL® OR DIABLO® HERBICIDE MIXTURES

HIGH VOLUME STEM FOLIAGE SPRAY - Mix 5 to 7-1/2 pounds Riverdale Dri D + DP Amine with 1 to 2 quarts Banvel 4WS per 100 gallons total spray mix. Use the low rate for easy to kill brush such as alder, aspen, cherry, sycamore, tulip-poplar and willows. Use the high rate to control species such as oak, ash, elm, pines, spruce, and fir.

LOW VOLUME STEM FOLIAGE SPRAY - AERIAL OR GROUND: Mix 10 to 15 pounds of Riverdale Dri D + DP Amine with 1 to 1-1/2 gallons Diablo Herbicide in 15 to 50 gallons of water per acre to control mixed brush including conifers and ash.

Observe all restrictions, precautions and limitations on the labeling of each product used in tank mixture.

Banvel Herbicide is a Trademark of Micro Flo
Diablo is a Trademark of Riverdale - A Nufarm Company

NOTE: Local conditions and application regulations vary and may affect use of this herbicide. Consult local Agricultural Experiment Station or Extension Service weed specialist and State regulatory agencies for recommendations in your area.

STORAGE AND DISPOSAL

STORAGE: Always use original container to store pesticides in a secured warehouse or storage building. This product should be stored in a cool, dry location. Containers should be opened in well-ventilated areas. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not store near open containers of fertilizer, seed or other pesticides. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixtures or rinsate is a violation of Federal law and may contaminate groundwater. If container is damaged or if pesticide has spilled, contain all spillage. Clean up all spilled material with broom. Place in a closed, labeled container for proper disposal. 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: Completely empty container into application equipment. Dispose of empty container in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Nufarm Americas, Inc. warrants that this herbicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this herbicide is reasonably fit for its intended purposes. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

(RV 050703)