228-221

04/14/2009



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

14 APR 2009

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Nufarm Americas Inc. 150 Harvester Drive, Sutie 200 Burr Ridge, IL 60527

Subject: 2,4-D RED Label Amendment Product Name: Riverdale 2D + 2DP Amine EPA Reg. No.228-221

The labeling referred to above is in compliance with the 2,4-D RED and are amended under the RED provided that you:

- 1. Submit and/or cite all data required for registration/reregistration review of your product when the Agency requires all registrants of similar products to submit data.
- 2. Make the following changes to the product packaging and labelling:
  - a. Per the acute toxicity review, this product must be contained in child resistant packaging.
  - b. The footnote on Page 1 of the label that states "Note: Spanish language is optional" must be deleted from the label, as it is required for products that have an acute toxicity category I.
  - c. Because the 2,4-DP-p RED prohibits aerial application, all references to aerial application must be deleted from the label.
    - pg. 2: "..or aircraft..."
      - "Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]."
    - pg. 3: first paragraph of the spray drift management section "(e.g., ...aerial,...)"
    - pg. 4: "Additional requirements for aerial applications: The boom...of the aircraft upwind."

-pg. 5: "...10 gallons total solution when applying as an aerial spray..."

-pg. 7: "...(AERIAL OR GROUND)"

In addition, add the following text to the Directions for Use section: "Aerial application of this product is prohibited."

Continued on Page

d. Per the acute toxicity review, the Hazards to Humans and Domestic Animals must be revised to read:

"DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Prolonged or frequently repeated contact with skin may cause allergic reactions in some individuals."

e. Per the acute toxicity review and the RED, the PPE must be revised to read:

"Some materials that are chemical-resistant to this product are **made of any** waterproof material. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators and other handlers must wear:

# Goggles or face sheild,

Long-sleeved shirt and long pants,

Shoes and socks,

# Chemical-resistant gloves, and

Chemical-resistant apron when mixing, loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. **Discard clothing and other absorbent materials that** have been drenched or heavily contaminated with this product's concentrate. Do not reuse them."

f. The Agency recommends that text be added to the Note to Physician which addresses category I eye irritation concerns. The following are some suggested types of information that could be included, if applicable:

-technical information on symptomatology;

-use of supportive treatments to maintain life functions;

-medicine that will counteract the specific physiological effects of the pesticide; -company telephone number to specific medical personnel who can provide specialized medical advice

Continued on Page 3

g. The first two sentences of the Environmental Hazards statement must be revised to the following:

"This pesticide is toxic to fish and aquatic invertebrates and may adversely affect nontarget plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark."

h. Per the 2,4-DP-p RED label table and Appendix A, the following rate restrictions must be added to the label and any conflicting text must be deleted from the label and any rates that exceed the restrictions specified below must be revised:

"For broadcast treatments:

Limited to 2 applications per year.

Maximum of 6 2/3 pints product (0.75 lbs ae 2,4-DP-p) per acre per application. Minimum of 30 days between applications.

For spot treatments (for woody plants and brush management):

Limited to 2 applications per year.

Maximum of 7.0 fl. oz. of product (0.05 lbs ae 2,4-DP-p) per 1000 ft. square per application.

Minimum of 30 days between applications.

Broadcast application is prohibited at this rate.

Spot treatment is defined as a treatment area no greater than 1000 ft (linear or square feet) per acre."

Turf Control:

The directions to "repeat application in 2 to 3 weeks" or "whenever new growth appears" conflict with the required 30-day retreatment interval. The label must be revised.

- i. Assure that the Storage and Disposal statements on the final printed label are in compliance with PR Notice 2007-1, PR Notice 2007-4, 40 CFR 156.140 and 40 CFR 156.146. See chapter 13 of the label review manual for guidance at: http://www.epa.gov/oppfead1/labeling/lrm/chap-13.htm
- 3. Please Note: Final product reregistration cannot be considered until after all active ingredients in this product are eligible for reregistration.

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A stamped copy of your labeling is enclosed for your records. Submit one (1) copy of the revised final printed label for the record 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 sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Sincerely,

ranne J. Miller

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Foanne Miller Product Manager 23 Herbicide Branch Registration Division (7505P)

# 2D+2DP-p 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, SOD FARMS AND SIMILAR TURF SITES.

ACTIVE INGREDIENT:	%
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*	%
Isomer Specific AOAC Method, Equivalent to: * 2,4-Dichlorophenoxyacetic Acid	

‡ CONTAINS THE SINGLE ISOMER FORM OF DICHLORPROP-p

# **DANGER - PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

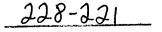
NOTE: Spanish language is optional

EPA REG. NO. 228-221 EPA EST. NO. 228-IL-1 MANUFACTURED BY NUFARM AMERICAS INC. 150 HARVESTER DRIVE BURR RIDGE, IL 60527

> ACCEPTED with COMMENTS in EPA Letter Dated

14 APR 2009

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





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GALS.

#### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER - PELIGRO

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear such as face shield, goggles, or safety glasses. It is recommended that safety glasses include front, brow and temple protection.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

#### All mixers, loaders, applicators, flaggers, and other handlers must wear:

- Iong-sleeved shirt and long pants
- shoes and socks, plus
- chemical-resistant gloves, when applying with any handheld nozzle or equipment, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate
- . chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate
- protective eyewear

See engineering controls for additional requirements.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## **Engineering Control Statements:**

If this container is over one gallon and less than five gallons, then persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron. If this container is five gallons or more in capacity, do not open pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handler PPE (personal protective equipment) requirements may be reduced or modified as specified in the WPS. Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)].

#### USER SAFETY RECOMMENDATIONS

#### **Users Should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

	FIRST AID		
IF IN EYES	<ul> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
IF SWALLOWED	<ul> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or do</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>	octor.	
IF ON SKIN OR CLOTHING	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>		
IF INHALED	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respirat to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>	ion, preferably	by mouth
	HOT LINE NUMBER tainer or label with you when calling a poison control center or doctor, or going for 1-877-325-1840 for emergency medical treatment information.	י ג <i>ג</i> י ג ג	: ر ر ۱ ر ر ب ر
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This pesticide may be toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark except as noted on appropriate labels. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

This product has properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

# **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.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system. Do not contaminate water used for irritation or domestic purposes

# AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls, chemical-resistant gloves made of any waterproof material, shoes plus socks and protective eyewear.

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow people (or pets) to enter the treated area until sprays have dried.

#### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

#### Droplet Size

When applying sprays that contain 2,4-D as the sole active ingredient, or when applying sprays that contain 2,4-D mixed with active ingredients that require a Coarse or coarser spray, apply only as a Coarse or coarser spray (ASAE standard 572) or a volume mean diameter of 385 microns or greater for spinning atomizer nozzles.

When applying sprays that contain 2,4-D mixed with other active ingredients that require a Medium or more fine spray, apply only as a Medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

#### Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition and there are not sensitive areas (including, but not limited to, residential areas, bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

#### Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Susceptible crops include, but are not limited to, cotton, okra, flowers, grapes (in growing stage), fruit trees (foliage), soybeans (vegetative stage), ornamentals, sunflowers, tomatoes, beans, and other vegetables, or tobacco. Small amounts of spray drift that might not be visible may injure susceptible broadleaf plants.

#### **Other State and Local Requirements**

Applicators must follow all state and local pesticide drift requirements regarding application of 2,4-D herbicides. Where states have more stringent regulations, they must be observed.

#### Equipment

All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Additional requirements for aerial applications:

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.

Release spray at the lowest height consistent with efficacy and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. This requirement does not apply to forestry or rights-of-way applications.

When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this by adjusting the path of the aircraft upwind.

Additional requirements for ground boom applications:

Do not apply with a nozzle height greater than 4 feet above the crop canopy.

# BRUSH CONTROL

This product is specifically designed for utilities and other industrial users to control woody plants. This product also controls many noxious perennial weeds on non-croplands (fencerows, hedgerows, roadsides, ditches, rights-of-way, utility power lines, railroads, airports and industrial sites).

The following is a partial list of weeds controlled;

#### WEEDS CONTROLLED

Alder	Dewberry	Oaks	Snowberry
Ash*	Dogwood	Osage orange	Spicebush
Aspen	Elderberry	Palmetto	Spruce
Birch	Elms	Persimmon*	Sumac
Blackberry	Fir	Pine	Sweetgum
Black cherry	Gooseberry	Poison ivy	Sycamore
Black jack oak	Greenbrier	Poison oak	Tulip poplar
Black locust	Gum	Poplar	Virginia creeper
Box elder	Hemlock	Raspberry	Wild cherry
Brambles	Honeysuckle	Red elder	Wild grape
Buckbrush	Kudzuvine	Salmonberry	Wild rose
Ceanothus	Locust	Sand sagebrush	Willow
Chamise	Manzanita	Sassafras	Winged elm
Coffee-berry	Maples*	Serviceberry	Yerba santa
Currant	Multifloral rose	Shinnery oak	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 1 to 1.5 gallons of this product 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 1 cup (8 fluid ounces) of this product 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 this product for basal bark treatment on scattered brush or as a second spray application on species resistant to first foliage application. Mix 3 to 4 gallons of this product 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.

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EARLY AND LATTER PART OF SPRAYING SEASON, AND DURING DRY WEATHER: Add 1.5 gallons of this product to 100 gallons of water and mix thoroughly.

**CUT SURFACE TREATMENT - STUMPS:** This treatment may be used anytime 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 3 to 4 gallons of this product 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 and apply undiluted product directly from the can 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 anytime of the year. Mix 3 to 4 gallons of this product 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 8 to 14 gallons of this product 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 to 4 quarts in 3 to 12 gallons volume per acre.

SOLID STANDS 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	PRODUCT (Quarts)	ADD TO WATER TO MAKE TOTAL OF (Gallons)
Post Blackjack oak Winged Elm	2.6	6
Sand Shinnery Oak	1 to 1.5	4

For maximum control, use higher rate and repeat spray the second year, if necessary, using 1 quart this product per acre.

**FORESTRY SITE PREPARATION:** To reduce competition from mixed trees and brush before planting forest trees, apply 1 gallon this product for easy-to-control species such as alder, aspen, hazel, sassafras, sumac, black locust willow, and other similar species. Apply 2 gallons of this product 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 to 4 quarts of this product 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. This product will control alder, aspen, birch, cherry, hazel, oaks, and similar species. It will not, at these rates, provide satisfactory control of red maple, sugar maple or ash.

Limitations:

- For postemergence non-cropland annual and perennial weeds, the maximum rate per application is 9 pints per acre, limited to 2 applications per year. Minimum of 30 days between applications.
- For postemergence non-cropland woody plants, the maximum rate per application is 18 pints per acre, limited to 1 application per year.
- Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.
- · For forestry broadcast applications, the maximum rate per application is 2.5 gallons per acre, limited to 1 application per year.
- For basal spray, cut surface stumps and frills, the maximum rate per application is 5 gallons per 100 gallons of spray solution, limited to one basal spray or cut surface application per year.

# TURF CONTROL

After product has been diluted in accordance with the directions for use on turf below, goggles, face shield or safety glasses are not required.

**Ornamental Turf (golf courses, cemeteries, parks, sports fields, turfgrass, lawns and other grass areas)**: This product is recommended for weed control of broadleaf weeds in lawns, ornamental turf, and similar turf areas. This treatment may injure bentgrass, St. Augustinegrass, centipedegrass, carpet grass 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 this product:

#### MORE SUSCEPTIBLE WEEDS

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

\*Treat in Spring and again in Fall.

Bindweed	LESS	SUSCEPTIBLE WEEDS	
	Florida pusley	Pigweed	Violet
Dock	Kochia	Ragweed	Wild carrot
Eveningprimrose	Lambsquarters	Vervain	Wild lettuce
Falsedandelion	Mallow	Vetch	

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

**PREPARATION OF SPRAY:** Fill the spray tank with half of the required amount of water, then add the recommended amount of 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. 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 Spurges should be sprayed when they are small. Resistant weeds such as Bindweed and Violets may require 3 quarts 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.

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HOSE ATTACHED SPRAYERS (LAWN MODELS): Use 1.5 teaspoons of this product 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.

PRODUCT	AREA COVERED (Square Feet)	WATER VOLUME (Gallons)
1.5 Fluid Ounces	1,000	1
8.0 Fluid Ounces	5,000	. 5
1 Pint	10,000	10
2 Quarts	40,000	40
3 Quarts (resistant weeds)	40,000	40

#### AMOUNTS TO USE

#### Limitations:

The maximum rate per application is 2.5 fluid ounces per 1,000 square feet, limited to applications is 2 per year. The maximum seasonal rate is 5 fluid ounces per 1,000 square feet, excluding spot treatments.

## 2D + 2DP-p and DIABLO<sup>®</sup> MIXTURES

HIGH VOLUME STEM FOLIAGE SPRAY: Mix 1 to 1.5 gallons of this product with 1 to 2 quarts Diablo<sup>\*</sup> per 100 gallons total spray mixture. Use the low rate for easy-to-kill brush such as alder, aspen, cherry, sycamore, tulip-poplar and willows. Use the high rate to controls species such as oak, ash, elm, pines, spruce and fir.

LOW VOLUME STEM FOLIAGE SPRAY (AERIAL OR GROUND): Mix 2 to 2.5 gallons of this product with 1 to 1.5 gallons of Diablo<sup>2</sup> 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.

# STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Always use original container to store pesticides in a secured warehouse or storage building. Store at temperatures above 32°F. If allowed to freeze remix thoroughly before using. This does not alter this product. 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.

**PESTICIDE DISPOSAL:** Pesticides 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 leaked, contain all spillage. Absorb and clean up all spilled material with granules or sand. 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:** Nonrefillable container: Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **Refillable container**: Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

#### WARRANTY DISCLAIMER

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