

228-423

07/10/2009

Jacket

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number:

228-423

Date of Issuance:

JUL 10 2009

NOTICE OF PESTICIDE:

Registration
[X] Reregistration
(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

DQD Selective Herbicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas, Inc.
150 Harvester Drive, Suite 200
Burr Ridge, Illinois 60527

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is reregistered in accordance with FIFRA section 4(g)(2)(C) provided you:

- 1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Make the following revisions to the final printed labeling:
a. Per the acute toxicity review and the REDs, the PPE section must be revised to read:
Personal Protective Equipment (PPE)
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 mical-resistance category selection chart.
All mixers, loaders, applicators, and other handlers must wear:
-Goggles or face shield,
-Long-sleeved shirt and long pants,
-Shoes and socks,
-Chemical-resistant gloves (except for applicators using groundboom equipment),
-Chemical-resistant apron when mixing, loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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."

Continued on Page 2

Signature of Approving Official:

Joanne I. Miller
Product Manager 23
Herbicide Branch
Registration Division (7505P)

Date:

JUL 10 2009

- b. Per the acute toxicity review, the text in the Hazards to Humans and Domestic Animals section must be revised to read:  
“Corrosive. Causes irreversible eye damage. Do not get in eyes *or on clothing*. Harmful if swallowed.”
- c. The mechanical transfer engineering control text in the Engineering Control Statements section is no longer required and may be removed from the label.
- d. Per the 2,4-D RED, the first 2 sentences of the Environmental Hazards statements must be revised to read as follows:  
“This pesticide is 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.”
- e. Per the RED combined label table, the early entry PPE must be revised to read:  
“Coveralls worn over short-sleeved shirt and short pants,  
Chemical-resistant footwear plus socks,  
Chemical-resistant gloves made of any waterproof material,  
Chemical-resistant headgear for overhead exposure,  
Protective eyewear”
- f. The text “For turf use, the maximum number of broadcast applications per treatment site is 2 per year” appearing in the Non-Agricultural Use Requirements box must be relocated to the Directions for Use section.
- g. The statement below the Non-Agricultural Use Requirements box “This product is for use on...” should include uses on roadsides and highway right-of-ways.
- h. Remove the word “Recommended” from the heading “Recommended Rates for Sod Farms.” The use of this word on pesticide labelling (when in reference to application rates) removes enforceability.
- i. The application restriction for ornamental lawns and turf is currently listed as a “Maximum of **6.5** pints per acre per application” and “maximum seasonal rate is **13** pints per acre, excluding spot treatments.” These rates exceed the allowable rate of 1.5 lbs ae 2,4-D per acre per application and 3.0 lbs ae 2,4-D per acre per season. The label must be revised to read a maximum of **6.0** pints of product per acre per application and **12.0** pints of product per acre per season.
- j. Revise the general heading ‘Non-Turf Areas’ to ‘Roadsides and Highway Right-of-Ways.’ In addition, remove the text “and other similar non-crop areas” from the text below the heading as this statement is too general and may be misinterpreted.
- k. Add the following statement to the labeling:  
“Use of this product in certain portions of California, Oregon and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to <http://www.epa.gov/espp>.”

1. Spray drift text must be added to the label and should read:

**“Spray Drift Management**

A variety of factors including weather conditions (e.g., wind directions, 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 ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For ground boom application:

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

- m. Revise the residue removal language of the Storage and Disposal statements so that they comply with PR Notice 2007-4. See chapter 13 of the label review manual for guidance at: <http://www.epa.gov/oppfead1/labeling/lrm/chap-13.htm>
3. A stamped copy of your labeling is enclosed for your records. You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this Notice or the next printing of the label whichever occurs first, must bear the new revised label. 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.

Enclosure

REC'D 11/10/1

5/12

# DQD SELECTIVE HERBICIDE

ACCEPTED  
With COMMENTS

FOR SELECTIVE BROADLEAF AND CERTAIN GRASSY WEED CONTROL  
IN ORNAMENTAL LAWNS AND TURF GRASSES

In EPA Letter Dated:  
JUL 10 2009

CONTAINS 2,4-D, QUINCLORAC AND DICAMBA

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

CONTROLS: Dandelion, Chickweed, Black medic, Knotweed, Plantain,  
Oxalis, Clover, Cocklebur, Thistle and many other species  
of broadleaf and certain grassy weeds; some of which  
are listed on this label.

228-423

**ACTIVE INGREDIENTS:**

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid* .....	25.40%
Quinclorac (3,7-Dichloro-8-quinolinecarboxylic Acid)** .....	7.91%
Dicamba (3,6-Dichloro-o-Anisic Acid)*** .....	2.64%

<b>OTHER INGREDIENTS:</b> .....	64.05%
<b>TOTAL</b> .....	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid .....	21.10%, 2.00 lbs./gal.
**3,7-Dichloro-8-quinolinecarboxylic Acid .....	7.91%, 0.75 lbs./gal.
***3,6-Dichloro-o-Anisic Acid .....	2.64%, 0.25 lbs./gal.

**INTENDED FOR USE BY PROFESSIONAL TURF MAINTENANCE PERSONNEL, LANDSCAPING  
OR COMMERCIAL APPLICATORS ONLY. NOT INTENDED FOR SALE TO OR USE BY HOMEOWNERS.**

**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.  
(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

EPA REG. NO. 228-423  
EPA EST. NO. 228-IL-1

MANUFACTURED BY  
NUFARM AMERICAS INC.  
150 HARVESTER DRIVE  
BURR RIDGE, IL 60527



NET CONTENTS      GALS.

000228-00423.20071106.RED

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

Corrosive. Causes irreversible eye damage. Do not get in eyes. Harmful if swallowed.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber, nitrile rubber or viton. 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:**

- long-sleeved shirt and long pants,
- shoes and socks, plus
- protective eyewear
- chemical-resistant gloves, when applying postharvest dips or sprays to citrus, 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 applying postharvest dips or sprays to citrus, mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

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.

See engineering controls for additional requirements.

**Engineering Control Statements:** If this container is over one gallon and less than five gallons, mixers and loaders who do not use a mechanical system (such as a probe and pump or spigot) to transfer contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

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.

<b>USER SAFETY RECOMMENDATIONS</b>	
<b>Users Should:</b>	
<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• 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.</li> <li>• 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.</li> </ul>	

<b>FIRST AID</b>	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <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>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"> <li>• Call a 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 doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.</p>	

**ENVIRONMENTAL HAZARDS**

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 chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical 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.

#### 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.

For turf use, the maximum number of broadcast applications per treatment site is 2 per year.

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

This product is for use on Ornamental Turf Lawns (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways, Aprons, Tees\* and Roughs) and similar turf areas; also for use on Sod Farms. *Highway*

\*Excluding Bentgrass Tees.

#### USE PRECAUTIONS

Avoid drift of spray mist to vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. Do not pour spray solutions near desirable plants. Do not use on Centipede, St. Augustinegrass, Dichondra or Bahiagrass, nor on lawns or turf where desirable clovers are present. Avoid fine mists. Use lawn type sprayer with coarse spray as wind drift is less likely. Avoid contact with exposed feeder roots of ornamentals and trees. Maximum control of weeds will be obtained from spring or early fall applications when weeds are actively growing. Use the higher rate for hard-to-control weeds. Do not exceed specified dosages for any area; be particularly careful within the dripline of tree and other ornamental species. Avoid broadcast applications when air temperature exceeds 90 degrees. When using small, spot treatment applications in temperature over 90 degrees, turf injury may occur.

Do not use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.

The suitable use of this product on non-recommended turf species may be determined by treating a small area at any rate/acre which does not exceed the maximum labeled rate for the turf type where the product is to be applied. The treated area should be observed for any sign of turf injury for a period of 30 days of normal growing conditions to determine the phytotoxicity and efficacy to the treated area.

Do not apply this product by air or through any type of irrigation equipment.

Adding oil, wetting agent, or other surfactant to the spray may be used to increase effectiveness on weeds but doing so may reduce selectivity to turf resulting in turf damage. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other sprays.

This product can be mixed with some liquid fertilizers or liquid iron materials. Because liquid fertilizer and liquid iron differ in pH, free ammonia content, density, salt concentration and percentage of water, a compatibility test is recommended prior to mixing in application equipment. All regulations, either State or Federal, relating to the application of liquid fertilizers or liquid iron and this product must be strictly followed.

### BROADLEAF WEEDS CONTROLLED

Alder	Common chickweed	Horsetail	Prostrate spurge	Thistle
Annual yellow sweet clover	Common mullein	Indiana mallow	Prostrate vervain	Tick trefoil
Artichoke	Common sowthistle	Ironweed	Puncture vine	Toadflax
Aster	Corn chamomile	Jewelweed	Purslane	Trailing crownvetch
Austrian fieldcress	Creeping Jenny	Jimsonweed	Ragweed	Tumble mustard
Bedstraw	Crimson clover	Kochia	Red clover	Tumble pigweed
Beggartick	Croton	Knawel	Redroot pigweed	Tumbleweed
Biden	Cudweed	Knotweed	Red sorrel	Velvet leaf
Bindweed	Curly dock	Lambsquarter	Redstem filaree	Venice mallow
Bird vetch	Curly indigo	Lespedeza	Rough cinquefoil	Veronica
Bitterweed	Dandelion	Locoweed	Rough fleabane	Vervain
Bitter wintercress	Dead nettle	Lupine	Roundleafed marigold	Vetch
Black-eyed Susan	Dock	Mallow	Rush	Virginia buttonweed
Black medic	Dogbane	Marshelder	Russian pigweed	Virginia creeper
Black mustard	Dogfennel	Matchweed	Russian thistle	Virginia pepperweed
Black-seed plantain	Elderberry	Mexicanweed	St. Johnswort	Wavyleaf bullthistle
Blessed thistle	English daisy	Milk vetch	Scarlet pimpernel	Western clematis
Blue lettuce	Fall dandelion	Milkweed bloodflower	Scotch thistle	Western salsify
Blue vervain	False dandelion	Mugwort	Sheep sorrel	White clover
Box elder	False flax	Morningglory	Shepherdspurse	White mustard
Bracted plantain	False sunflower	Mouseear chickweed	Slender plantain	Wild mustard
Brassbuttons	Fiddleneck	Musk thistle	Smallflower galinsoga	Wild aster
Bristly oxtongue	Field bindweed	Mustard	Smartweed	Wild buckwheat
Broadleaf dock	Field pansy	Narrowleaf plantain	Smooth dock	Wild carrot
Broadleaf plantain	Flea bane (daisy)	Narrowleaf vetch	Smooth pigweed	Wild four-o'clock
Broomweed	Flixweed	Nettle	Sneezeweed	Wild garlic
Buckhorn	Florida betony	Orange hawkweed	Southern wild rose	Wild geranium
Buckhorn plantain	Florida pusley	Oxalis	Sowthistle	Wild lettuce
Bulbous buttercup	Frenchweed	Oxeye daisy	Spanishneedle	Wild marigold
Bull nettle	Galinsoga	Parsley-piert	Spatterdock	Wild onion
Bull thistle	Garlic mustard	Parsnip	Speedwell	Wild parsnip
Burdock	Goathead	Pearlwort	Spiny amaranth	Wild radish
Burning nettle	Goatsbeard	Pennycress	Spiny cocklebur	Wild rape
Bur ragweed	Goldenrod	Pennywort	Spotted catsear	Wild strawberry
Burweed	Ground ivy	Peppergrass	Spotted knapweed	Wild sweet potato
Buttercup	Gumweed	Pepperweed	Spotted spurge	Wild vetch
Canada thistle	Hairy bittercress	Pigweed	Spurge	Willow
Carolina geranium	Hairy fleabane	Pineywoods bedstraw	Spurweed	Witchweed
Carpetweed	Hawkweed	Plains coreopsis	Stinging nettle	Woodsorrel
Catchweed bedstraw	Healall	Plantain	Stinkweed	Woolly croton
Catsear	Heartleaf drymary	Poison hemlock	Stitchwort	Woolly morning-glory
Catnip	Hedge bindweed	Poison ivy	Strawberry clover	Woolly plantain
Chickweed	Hedge mustard	Poison oak	Sumac	Wormseed
Chicory	Hemp	Pokeweed	Sunflower	Yarrow
Cinquefoil	Henbit	Poorjoe	Sweet clover	Yellow rocket
Clover	Hoary cress	Povertyweed	Tall nettle	Yellowflower
Cockle	Hoary plantain	Prickly lettuce	Tall vervain	pepperweed
Cocklebur	Hoary vervain	Prickly sida	Tansy mustard	and other broadleaf
Coffeebean	Honeysuckle	Primrose	Tansy ragwort	weeds.
Coffeeweed	Hop clover	Prostrate knotweed	Tanweed	
	Horsenettle	Prostrate pigweed	Tarweed	

Some of these species may require repeat spot applications and/or use of higher rate recommended on this product label even under ideal conditions for application.



**BROADLEAF WEED CONTROL IN ORNAMENTAL LAWNS AND TURF**

SITE	USE RATE (Fluid Ounces)	SPRAY VOLUME (Gallons)	USE RATE (Pints)	SPRAY VOLUME (Gallons)	COMMENTS
	PER 1,000 SQ. FT.		PER ACRE		
Bluegrass, Fescue, Ryegrass, Bentgrass (excluding golf course greens and tees)	1.1 to 1.5	0.5 to 5.5	3 to 4	20 to 240	
Bermudagrass, Zoysiagrass	0.75 to 1.1	0.5 to 5.5	2 to 3	20 to 240	Do not apply this product on St. Augustinegrass, Bahia grass or Centipede.
Bentgrass fairways	0.75	5.5	2 Maximum	20 to 240	<sup>1</sup> Bentgrass fairways excluding golf course greens and tees.
	0.36 to 0.55	0.3 to 5.5	1 to 1.5	20 to 240	<sup>2</sup> Fairways under stress.

<sup>1</sup> On closely mowed golf course fairway bentgrass, apply this product at a maximum rate of 2 pints in 20 to 240 gallons of water per acre (0.75 fluid ounce in 0.5 to 5.5 gallons of water per 1,000 sq. ft.).

<sup>2</sup> During conditions which promote turf stress use lower rates, 1 to 1.5 pints in 20 to 240 gallons of water per acre (0.36 to 0.55 fluid ounce in 0.3 to 5.5 gallons per 1,000 sq. ft.). Slight turf yellowing will disappear after one week. To minimize grass injury, a second application should not be made for at least 4 weeks. Avoid swath overlaps. Do not use on golf course greens or tees.

**Controlled Droplet Applicators (CDA), Atomizers, and Spinning Disk Applicators:** Use this product at the rate of 2 to 3 pints per acre for warm season turf listed above and 3 to 4 pints per acre for cool season turf listed above in sufficient water to assure coverage (1 to 4 gallons of water per acre is normal for this type of equipment).

**Lower Volume Equipment:** Use as little as 5 gallons of water per acre. Use only application equipment that is capable of spreading a uniform droplet, wetting each weed surface.

**NOTE:** For all grasses (1) do not overlap spray patterns; (2) use reduced rates if grass is stressed from heat, drought, etc.; and (3) follow CDA equipment spray instructions.

**SOD FARMS  
FOR CONTROL OF BROADLEAF WEEDS**

This product is intended for use on sod farms. This herbicide provides selective broadleaf control in warm season and cool season turfgrass established for commercial sod production.

**Timing**

Apply this herbicide to broadleaf weeds that are actively growing. Follow-up applications may be required for dense infestations of perennial and biennial weeds. Do not apply this product to St. Augustinegrass, Bahia grass or Centipede.

The application of this herbicide to grass seedlings is not recommended until after the second mowing.

The application of this product to newly sodded, sprigged, or plugged grasses should be delayed until 3 to 4 weeks after the sodding, sprigging, or plugging operations. Also, applications to dormant Bermudagrass and dormant Zoysiagrass are suggested.

**Recommended Rates for Sod Farms**

For Bluegrass, Ryegrass and Fescue, apply 3 to 4 pints per acre. For Creeping Bentgrass use 1.25 pints per acre. For Common and Hybrid Bermudagrass and Zoysiagrass apply 1.5 to 1.8 pints per acre. Spray volume for Sod Farm application is 5 to 175 gallons per acre.

Generally, the lower application rates will provide satisfactory control of sensitive weeds. The higher application rates will be required for dense infestations of perennial weeds, for adverse/extreme environmental conditions, or for weeds beyond the appropriate growth stages.

**USE PRECAUTIONS FOR SOD FARMS**

Limited to 2 applications per year.  
Maximum of 8 pints per acre per application.  
Minimum of 21 days between applications.

**POST EMERGENT GRASSY WEED CONTROL IN ORNAMENTAL LAWNS AND TURF**

DQD can provide control and suppression of certain grassy weeds. For best results, apply this product when weeds are actively growing and in early stages of growth. More mature grasses will be more difficult to control and may require a second application. Mature, drought stressed grassy weeds will be more difficult to control so adequate soil moisture is preferred. Adverse or extreme environmental conditions such as poor soil conditions, high temperatures, drought and cultural conditions may effect the performance of this product. Do not broadcast apply this product above 90 degrees. Spot treatments above 90 degrees may result in some turf injury.

Broadcast or spot treatments made in accordance with labeled directions will control the following grassy weeds:

Barnyardgrass      Crabgrass (large and smooth)      Foxtail (green, yellow and giant)      Signalgrass (broadleaf)

**Spray Volumes:** Higher water volumes are required to control grassy weeds. Use 50 to 220 gallons per acre (1.2 to 5 gallons per 1,000 per square feet) and a spray pressure of 20 to 40 psi. Higher water volumes should be used for control of dense weed populations to ensure weed foliage is completely covered.

**Dual Applications:** A single application should control less mature, light weed populations; however, a second application may be required to control heavy, mature weed infestations. A sequential application to control 8-leaf, 4-tiller weeds may not provide complete control.

**USE RATES AND SEQUENTIAL APPLICATIONS**

**Apply on Cool Season Turf only:**

Apply only on - Perennial Ryegrass, Annual Ryegrass, Kentucky Bluegrass, Fescues, Annual Bluegrass (Poa annua), Rough Bluegrass (Poa trivialis).

**SPRAY SCHEDULE:** A single application is generally effective on less mature, light weed populations. A second application may be required on mature, dense infestations.

SINGLE AND SEQUENTIAL APPLICATION GUIDELINES				
APPLICATION	RATE	SPRAY VOLUME	MAXIMUM APPLICATIONS	CONTROL AND INTERVAL
Single	5-1/3 pints/A or 85 ounces/A	50 to 220 gal/A or 1.2 to 5 gal/1,000 sq. ft.	2 per year	Single Application To control - 1 to 6-leaf (2 tillers)
	2.0 fluid ounces/1,000 sq. ft.	1 gal/1,000 sq. ft.		
Sequential*	5-1/3 pints/A or 85 ounces/A	50 to 220 gal/A or 1.2 to 5 gal/1,000 sq. ft.	2 per year	Sequential Application 14 to 21 day interval To control - 7 to 8 leaf (3 to 4 tillers)
	2.0 fluid ounces/1,000 sq. ft.	1 gal/1,000 sq. ft.		
<p><b>*Sequential Applications:</b></p> <ul style="list-style-type: none"> <li>• Ensure that spray volumes are adequate to completely cover weeds, especially when dense weed infestations make it difficult to completely cover the foliage of target weeds.</li> <li>• Early applications of this product will not control weeds germinating later in the season so a second application may be necessary.</li> <li>• If turf injury is observed after the first application, delay the second application until turf has recovered.</li> </ul>				

**USE PRECAUTIONS FOR POST-EMERGENT GRASSY WEED CONTROL IN ORNAMENTAL LAWNS AND TURF**

**Post-emergence:**

Limited to 2 applications per year.  
Maximum of 6.5 pints per acre per application.  
The maximum seasonal rate is 13 pints per acre, excluding spot treatments.

**NON-TURF AREAS**

Roadsides (including aprons and guardrails), rights-of-way, and other similar non-crop areas: For control of broadleaf weeds, mix at a rate of 2 to 6 pints of this product per 50 to 300 gallons of water. This mixture will cover 1 acre. Thoroughly saturate all weeds with

11/12

spray mixture. Apply any time between the time when plants come into full leaf (spring) to when the plants begin to go dormant. Best results are obtained when weeds are young and actively growing. Do not cut weeds until herbicide has translocated throughout the plant causing root death. For small broadleaf weeds, use the lower rate. Heavy, dense stands require the higher rate with high water volume. For small (spot) applications with small tank sprayers, apply at the rate of 2-1/4 ounces of this product per gallon of water and spray to thoroughly wet all foliage.

For control of woody plants, apply to both stems and foliage any time from the time foliage is completely matured until the time 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. Add 4 to 8 pints of this product to 100 gallons of water, applying 200 to 600 gallons of spray mixture per acre depending upon the height and thickness of the brush. Mix thoroughly before spraying.

#### NON-TURF AREAS USE PRECAUTIONS

##### Post-emergence (annual and perennial weeds):

Limited to 2 applications per year.  
Maximum of 8 pints per acre per application.  
Minimum of 30 days between applications.

##### Post-emergence (woody plants):

Limited to 1 application per year.  
Maximum of 16 pints per acre 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.

#### COMPATIBILITY

This product can be mixed with some liquid fertilizers or liquid iron materials. Because liquid fertilizers and liquid iron differ in pH, free ammonia content, density, salt concentration and percentage of water, a compatibility test (given below) is recommended prior to mixing in the application equipment. All regulations, either State or Federal, relating to the application of liquid fertilizers or liquid iron and this product must be strictly followed. The following compatibility test should always be performed prior to full-scale mixing.

1. Pour 18 ounces of water into a quart jar.
2. Add 1 ounce of either the liquid fertilizer or liquid iron to be used.
3. Add 1 ounce of this product.
4. Close jar and shake well.
5. Watch the mixture for several seconds after shaking and check again after 30 minutes.
6. If the mixture does not show signs of separating, the combination may be used. If the mixture foams excessively, gels, separates or gets very thick, do not combine for field application.
7. Compatibility may be improved by the use of a compatibility agent. Follow the previously outlined test procedures and add 1/6 ounce of the compatibility agent between steps (the compatibility agent must be added to the fertilizer or iron before adding this product).
8. If the mixture does not separate, gel, foam or get very thick, it may be used for field application. Mix only the amount to be sprayed. Do not allow to stand overnight.

#### 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 before using. This does not alter the 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:** Pesticide wastes are toxic. 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. Improper disposal of excess pesticide, spray mixtures, 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:** 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. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**CONTAINER DISPOSAL FOR REFILLABLE CONTAINERS:** Close all openings and replace all caps. Contact Nufarm Customer Service at 1-800-345-3330, to arrange for return of the empty refillable container.

12/12

**WARRANTY DISCLAIMER**

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

**LIMITATION OF LIABILITY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL. MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

**If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.**

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