

#### U.S. ENVIRONMENTAL PROTECTION AGENCY

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

228-531

Date of Issuance:

AUG 2 4 2007

NOTICE OF PESTICIDE:

X Registration

\_\_ Reregistration (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

NUP 12D02 Herbicide

Name and Address of Registrant (include ZIP Code):

NuFarm Americas, Inc.

150 Harvester Dr., Suite 200

Burr Ridge, IL 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 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 registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:

Joanne D. Miller

- 1. Signal Word: Based on the acute toxicity profile for this product, the signal word should be CAUTION.
- 2. Precautionary Statements- Hazards to Humans and Domestic Animals section: Based on the acute toxicity profile of this product and current labeling requirements per the Dicamba and 2,4-D and Salts Reregistration Eligibility Decisions (REDs), the hazards statement must read, "Caution. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or on clothing. Wear protective. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

Comments continued on page 2 of this Notice of Registration

Signature of Approving Official:

Joanne I. Miller

Product Manager 23

Herbicide Branch

Registration Division (7505P)

Date

AUG 2 4 2007

EPA Form 8570-6

3. Replace the current PPE description with a section entitled, "Personal Protective Equipment (PPE)," containing the following text:

"Some materials that are chemical-resistant to this product are (*insert correct chemical-resistant material*). If you want more options, follow the instructions for category (*insert A, B, C, D, E, F, G, or H*) on an EPA chemical-resistance category selection chart.

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

- Long-sleeved shirt and long pants
- Shoes plus socks, and
- Chemical-resistant gloves

See engineering controls for additional requirements and exceptions."

- 4. Add a User Safety Requirements box, containing the following text:
  - a. "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."
- 5. Under Environmental Hazards section:
  - a. Modify the first two statements to read, "This product is toxic to fish and aquatic invertebrates. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Drift or runoff may adversely affect nontarget plants."
  - b. Add the word, "or rinsate," after the word, "washwaters."
  - c. Add the following statement above the paragraph beginning, "Most cases of groundwater contamination...":
    - i. "The chemicals in this product have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals 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."
- 6. In the Non-Agricultural Use Requirements box, modify the statement beginning, "Do not enter treatment areas," to read, "Do not enter or allow others to enter treatment areas until sprays have dried."
- 7. Under the Use Precautions section, add the following statements: "Make no more than 2 applications per year. For ornamental lawns and turf, apply no more than 1.5 lbs ae 2,4-D per acre per application and no more than 3.0 lbs ae 2,4-D per acre per year, excluding spot treatments. For turf grown for seed or sod, apply no more than 2.0 lbs ae 2,4-D per acre per application, with a minimum of 21 days between applications."
- 8. Modify the statement, "Some of these species may require repeat spot applications...," to read, "Some of these species may require repeat spot applications

- 8. and/or use of the maximum recommended rate on this product label even under ideal conditions for application."
- 9. Submit the following data required for the registration of this pesticide product within 1 year from the date of this Notice of Registration:

EPA Guideline Number: Study Description:
830.6317 Storage Stability
830.6320 Corrosion Characteristics

- 10. Submit and/or cite all data required for the registration of this product when the Agency requires all registrants of similar product to submit data.
- 11. Add the statement, "EPA Reg. No. 228-531."
- 12. Submit one copy of the final printed label before the product is released for shipment.

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

**Enclosure** 

## **NUP 12D02 Herbicide**

FOR SELECTIVE BROADLEAF AND CERTAIN GRASSY WEED CONTROL In EPA Letter Dated:

IN ORNAMENTAL LAWNS AND TURF GRASSES

**CONTAINS 2,4-D, QUINCLORAC AND DICAMBA** 

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

AUG 2 4 2007 Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

228-531

#### **ACTIVE INGREDIENTS:**

\*\*\*3,6-Dichloro-o-Anisic Acid .....

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*		8.25 1.38
OTHER INGREDIENTS:		<u>77.13%</u>
	TOTAL1	00.00%
• *		
By Isomer Specific AOAC Method, Equivalent to:	•	
*2,4-Dichlorophenoxyacetic Acid		lbs./gal.
**3,7-Dichloro-8-quinolinecarboxylic Acid	8.25%, 0.75	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

### **WARNING**

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

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

EPA REG. NO. 228-[pending]

EPA EST. NO. 228-11-1

NET CONTENTS

MANUFACTURED BY: NUFARM AMERICAS INC. BURR RIDGE, IL 60527

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING

Corrosive. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles or safety glasses. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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 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.

NON-WPS TURF USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170)--in general only agricultural plant uses are covered by the WPS--must wear face shield, goggles, or safety glasses and long pants, long-sleeved shirt, socks, shoes and chemical-resistant gloves when mixing, loading or applying this product. It is recommended that safety glasses include front, brow, and temple protection. In addition to the clothing and eye protection listed above, commercial mixer/loaders must wear chemical-resistant in place of rubber gloves except when the product is to be applied to a golf course. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

NON-WPS INDUSTRIAL USES: When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear face shield, goggles, or safety glasses and 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. 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. Remove saturated clothing as soon as possible and shower.

WPS USES: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170)—in general, agricultural plant uses are covered—must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, shoes plus socks, and protective eyewear, when cleaning equipment, mixing or loading. 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 Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned. 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.

Engineering Controls Statements: 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 1 70.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS**

#### **Users Should:**

- Wash hands, face and arms with soap and water 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.
- · 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>			
F SWALLOWED	<ul> <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>			
Have the product cor	HOT LINE NUMBER  Italiner 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.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target area. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other spraying. When cleaning equipment, do not pour washwater 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 water used for irrigation or domestic purposes.

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

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 (such as nitrile, butyl, neoprene, and/or barrier laminate), chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for covernead exposure.

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#### 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 allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

This product is for use on Ornamental Turf Lawns (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (tolerant species only) and similar turf areas; also for use on Sod Farms.

#### **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, Bahiagrass, Zoyziagrass, Bermudagrass and Bentgrass 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	Common mullein	Indiana mallow	Prostrate vervain	Tick trefoil
clover	Common sowthistle	l ronweed	Puncture vine	Toadf lax
Artichoke	Corn chamomile	Jewelweed	Purslane	Trailing crownvetch
Aster	Creeping Jenny	Jimsonweed	Ragweed	Tumble mustard
Austrian fieldcress	Crimson clover	Kochia	Red clover	Tumble pigweed
Bedstraw	Croton	Knawel	Redroot pigweed	Tumbleweed
Beggartick	Cudweed	Knotweed	Red sorrel	Velvet leaf
Biden	Curly dock	Lambsquarter	Redstem filaree	Venice mallow
Bindweed	Curly indigo	Lespedeza	Rough cinquefoil	Veronica
Bird vetch	Dandelion	Locoweed	Rough fleabane	Vervain
Bitterweed	Dead nettie	Lupine	Roundleafed marigold	Vetch_ccca
Bitter wintercress	Dock	Mallow	Rush	Virginfacbuttonweed
Black-eyed Susan	Dogbane	Marshelder	Russian pigweed	Virginįą creęper
Black medic	Dogfennel	Matchweed	Russian thistle	Virginfa pepp@rweed
Black mustard	Elderberry	Mexicanweed	St. Johnswort, Color,	Wavyleaf builthistle
Black-seed plantain	English daisy	Milk vetch	Scarlet pimpernel	Western clematis
Blessed thistle	Fall dandelion	Milkweed bloodflower	Scotch thistle	Western salsify
Blue lettuce	False dandelion	Mugwort	Sheep sorrel	White cióvel-
Blue vervain	False flax	Morningglory -	Shepherdspurse (1)	White noustard
Box elder	False sunflower	Mousear chickweed	Slender plantain CCCC	Wild mustard
Bracted plantain	Fiddleneck	Musk thistle	Smallflower galinଞ୍ଜୁଣ େ	Wild asterd
Brassbuttons	Field bindweed	Mustard	Smartweed	Wild buckwheat
Bristly oxtongue	Field pansy	Narrowleaf plantain	Smooth dock	Wild carrot

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Broadleaf dock	Flea bane (daisy)	Narrowleaf vetch	Smooth pigweed	Wild four-o'-clock
Broadleaf plantain	Flixweed	Nettle	Sneezeweed	Wild garlic
Broomweed	Florida betony	Orange hawkweed	Southern wild rose	Wild geranium
Buckhorn	Florida pusley	Oxalis	Sowthistle	Wild lettuce
Buckhorn plantain	Frenchweed	Oxeye daisy	Spanishneedle	Wild marigold
Bulbous buttercup	Galinsoga	Parsley-piert	Spatterdock	Wild onion
Bull nettle	Garlic mustard	Parsnip	Speedwell	Wild parsnip
Bull thistle	Goathead	Pearlwort	Spiny amaranth	Wild radish
Burdock	Goatsbeard	Pennycress	Spiny cocklebur	Wild rape
Burning nettle	Goldenrod	Pennywort	Spotted catsear	Wild strawberry
Bur ragweed	Ground ivy	Peppergrass	Spotted knapweed	Wild sweet potato
Burweed	Gumweed	Pepperweed	Spotted spurge	Wild vetch
Buttercup	Hairy bittercress	Pigweed	Spurge	Willow
Canada thistle	Hairy fleabane	Pineywoods bedstraw	Spurweed	Witchweed
Carolina geranium	Hawkweed -	Plains coreopsis	Stinging nettle	Woodsorrel
Carpetweed	Healall	Plantain	Stinkweed	Woolly croton
Catchweed bedstraw	Heartleaf drymary	Poison hemlock	Stitchwort	Woolly morning-glory
Catsear	Hedge bindweed	Poison ivy	Strawberry clover	Woolly plantain
Catnip	Hedge mustard	Poison oak	Sumac	Wormseed
Chickweed	Hemp	Pokeweed	Sunflower	Yarrow
Chicory	Henbit	Poorjoe	Sweet clover	Yellow rocket
Cinquefoil	Hoary cress	Povertyweed	Tall nettle	Yellowflower
Clover	Hoary plantain	Prickly lettuce	Tall vervain	pepperweed
Cockle	Hoary vervain	Prickly sida	Tansy mustard	and other broadleaf
Cocklebur	Honeysuckle	Primrose	Tansy ragwort	weeds.
Coffeebean	Hop clover	Prostrate knotweed	Tanweed	
Coffeeweed	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.

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

This product 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.

#### **GRASSY WEEDS CONTROLLED IN ORNAMENTAL LAWNS AND TURF**

COMMON NAME		СОММ	ENTS		
Barnyardgrass Crabgrass, Large 1,2	1)	Under certain conditions annual grasses at controlled and a sequential application may		stage may not b	
Crabgrass, Smooth1,2 Foxtail, Giant 1	2)	Large and Smooth Crabgrass in California to control failure occurs, do not reapply this produce of action.			
Foxtail, Yellow 1				( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	((((
Signalgrass, Broadleaf 1				( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (	. ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (
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During conditions which promote turf stress additional yellowing may occur. 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 7 to 8 pints per acre on the listed tolerant turf species 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 AND GRASSY WEEDS

This product is intended for use on sod farms. This herbicide provides selective broadleaf control in listed warm season and cool season turf grass 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 broadleaf and grassy weeds. <u>Do not</u> apply this product to St. Augustinegrass, Bahiagrass, Centipedegrass, Dichondra, Zoyziagrass, Bermudagrass or Bentgrass.

The application of this herbicide to grass seedlings is not recommended until after the third mowing. Do not mow for two days before or two days after application. Clippings for the first three mowings should left in the application area.

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. Delay applications for 4 weeks after seeding and emergence of Kentucky bluegrass, perennial ryegrass and fine fescues.

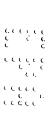
#### **Recommended Rates for Sod Farms**

For Bluegrass, Ryegrass and Fescue, apply 7 to 8 pints per acre. Spray volume for Sod Farm application is 20 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.

**Spray Volumes:** Higher water volumes are generally required to control grassy weeds. Use 20 to 220 gallons per acre (.5 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 broadleaf weed infestations. Under certain conditions, annual grasses in the 2 to 4 tiller stages may require a sequential application.



Highly Tolerant Species	Moderately Tolerant Species
Bluegrass, Kentucky Bluegrass, Annual Fescue, Tall Ryegrass, Annual Ryegrass, Perennial	Fescue, Fine1 Fescue, Red Fescue, Hard Fescue, Chewing's Bluegrass, Rough (Poa Trivalis)

 Only apply this herbicide on fine fescue when it is part of a blend. Yellowing that may occur can be reduced by the addition of chelated iron or sprayable nitrogen fertilizer.

APPLICATION GUIDELINES			
APPLICATION	RATE	SPRAY VOLUME	MAXIMUM APPLICATIONS
Single	7 to 8 pints/A or 112 to 128 ounces/A	20 to 220 gal/A or .45 to 45 gal/1,000 sq. ft.	2 per year
Spot Treatment	2.5 to 2.9 fluid ounces/1,000 sq: ft.	1 gal/1,000 sq. ft.	

#### **Application Guidelines:**

- 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.
- Early applications of this product will not control weeds germinating later in the season so a second application may be necessary.
- If turf injury is observed after the first application, delay the second application until turf has recovered.

#### **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 7 to 8 pints of this product per 50 to 300 gallons of water. This mixture will cover 1 acre. Thoroughly saturate all weeds with 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 2.9 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 7 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.



#### 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.
- Close jar and shake well.
- 5. Watch the mixture for several seconds after shaking and check again after 30 minutes.
- 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.
- 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.

#### WARRANTY DISCLAIMER

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