

228-590

9.14.2011

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

SEP 14 2011

George Meindl  
Nufarm Americas, Inc.  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527

Subject: Notification per PR Notice 98-10 – Minor Label Revisions  
4-Speed XT Selective Herbicide  
EPA Reg. No. 228-590  
Application Dated – August 23, 2011

Dear Mr. Meindl:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product.

The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been date-stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Maggie Rudick at (703) 347-0257 or [rudick.maggie@epa.gov](mailto:rudick.maggie@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "K. Montague", written over a horizontal line.

Kathryn Montague, Product Manager 23  
Herbicide Branch  
Registration Division (7505P)



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<p><b>United States</b> <b>Environmental Protection Agency</b> Washington, DC 20460</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 20px; height: 20px;"><input type="checkbox"/></td><td style="padding: 2px;">Registration</td></tr> <tr><td style="width: 20px; height: 20px;"><input type="checkbox"/></td><td style="padding: 2px;">Amendment</td></tr> <tr><td style="width: 20px; height: 20px;"><input checked="" type="checkbox"/></td><td style="padding: 2px;">Other</td></tr> </table>	<input type="checkbox"/>	Registration	<input type="checkbox"/>	Amendment	<input checked="" type="checkbox"/>	Other	OPP Identifier Number  
<input type="checkbox"/>	Registration							
<input type="checkbox"/>	Amendment							
<input checked="" type="checkbox"/>	Other							

**Application for Pesticide - Section I**

<b>1. Company/Product Number</b> 228-590	<b>2. EPA Product Manager</b> Kathryn Montague	<b>3. Proposed Classification</b> <input type="checkbox"/> None <input type="checkbox"/> Restricted
<b>4. Company/Product (Name)</b> 4-Speed XT Selective Herbicide	<b>PM#</b> 23	
<b>5. Name and Address of Applicant (Include ZIP Code)</b> Nufarm Americas, Inc. 150 Harvester Drive Suite 200 Burr Ridge, IL 60527  <input type="checkbox"/> Check if this is a new address		<b>6. Expedited Review.</b> In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

<input type="checkbox"/> Amendment - Explain below.  <input type="checkbox"/> Resubmission in response to Agency letter dated _____  <input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me Too" Application.  <input type="checkbox"/> Other - Explain below.
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**NOTIFICATION**

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

**SEP 14 2011**

Label notification consistent with PRN98-10, removal of self-limiting statement - see cover letter for detailed explanation. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

<b>1. Material This Product Will Be Packaged In:</b>				<b>2. Type of Container.</b>	
<b>Child-Resistant Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Unit Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Water Soluble Packaging</b> <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted If "Yes" Unit Packaging wgt.    No. per container		If "Yes" Package wgt    No. per container			
<b>3. Location of Net Contents Information</b> <input type="checkbox"/> Label <input type="checkbox"/> Container		<b>4. Size(s) Retail Container</b>		<b>5. Location of Label Directions</b> <input type="checkbox"/>	
<b>6. Manner in Which Label is Affixed to Product</b> <input type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____					

**Section - IV**

<b>1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)</b>		
<b>Name</b> George Meindl george.meindl@us.nufarm.com	<b>Title</b> Sr. Regulatory Affairs Manager	<b>Telephone No. (Include Area Code)</b> 630.455.2017
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		<b>6. Date Application Received (Stamped)</b> <div style="border: 1px solid black; padding: 5px; text-align: center;">           SEP 14 2011         </div>
<b>2. Signature</b> 	<b>3. Title</b> Sr. Regulatory Affairs Manager	
<b>4. Typed Name</b> George Meindl	<b>5. Date</b> 8/23/2011	

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Nufarm Americas, Inc.  
George Meindl  
Sr. Regulatory Affairs Manager  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527  
Phone: 630.455-2017 Fax: 630.455.2030  
george.meindl@us.nufarm.com

August 23, 2011

Via Overnight Courier

Kathryn Montague  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U. S. Environmental Protection Agency  
Room S4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

Subject: 4-Speed® XT Selective Herbicide  
EPA Reg. No. 228-590  
Label notification – Deletion of Self-Limiting statement per PR98-10

Dear Ms. Montague:

Nufarm Americas, Inc would like to remove a self-limiting statement on the subject product's labeling, where the phrase "For Use by Turf Maintenance Personnel, Landscape or Commercial Applicators Only" is removed.

This phrase was initially added to the label at the request of the registrant and this product is not considered a Federal Restricted Use Product. We are aware that certain State lead agencies have communicated this issue to the EPA indicating that this statement is consider "vague and unenforceable". In addition, the term "Turf Maintenance Personnel" is not defined in state or Federal statutes, and it is not an enforceable term, nor is "Landscape". The state of North Dakota will not re-register this product, without the modification mentioned above. We have discussed this with the North Dakota Department of Agriculture and they agree this approach is acceptable.

Since this language was not mandated by the USEPA, we believe this can be removed via notification and is consistent with PRN98-10 section II (Labeling notifications). The change is highlighted for ease in review. Nufarm Americas certifies that no other changes to the label have been made.

To process this request please find enclosed the following:

- Application for Pesticide Registration (EPA form 8570-1)
- Revised labeling with areas of change clearly identified (1 copy)
- Revised labeling – clean (1 copy)
- Certification with Respect to Label Integrity



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Nufarm Americas, Inc.  
George Meindl  
Sr. Regulatory Affairs Manager  
150 Harvester Drive, Suite 200  
Burr Ridge, IL 60527  
Phone: 630.455-2017 Fax: 630.455.2030  
george.meindl@us.nufarm.com

- CD containing the proposed labeling, file name: 000228-00590.20110823.MASTER (RV031109) removal of self-limiting statement.pdf

Thank you for processing this notification. If you should have any questions regarding this matter, please feel free to contact me at 630.455.2017 or email at [george.meindl@us.nufarm.com](mailto:george.meindl@us.nufarm.com).

Sincerely,

A handwritten signature in black ink that reads 'George Meindl'.

George Meindl  
Sr. Regulatory Affairs Manager  
Nufarm Americas, Inc.

highlighted 5/11

# 4-Speed™

# XT

NOTIFICATION

SEP 14 2011

## SELECTIVE HERBICIDE

FOR FAST, POSTEMERGENT SELECTIVE BROADLEAF WEED CONTROL FOR USE ON GOLF COURSES, ORNAMENTAL TURF LAWNS, ROADSIDES, PARKS, SOD FARMS, SPORTS FIELDS, NATIVE GRASS AREAS AND SIMILAR TURF AREAS.

TO CONTROL DANDELION, CHICKWEEDS, PLANTAINS, OXALIS, SPURGE, WILD ONION, AND MANY OTHER BROADLEAF WEEDS. ALSO FOR HIGHWAYS, RIGHTS-OF-WAY AND OTHER SIMILAR NON-CROP AREAS.

CONTAINS 2,4-D, TRICLOPYR, DICAMBA AND PYRAFLUFEN ETHYL  
GET THE OPTICAL ADVANTAGE®

### ACTIVE INGREDIENTS:

Isooctyl (2-ethylhexyl) Ester of 2,4-Dichlorophenoxyacetic Acid*	41.920%
Triclopyr: (3,5,6-trichloro-2-pyridinyl)Oxyacetic acid, butoxyethyl ester**	4.810%
Dicamba Acid (3,6-Dichloro-o-Anisic Acid)***	3.460%
Pyraflufen ethyl [ethyl 2-chloro-5-difluoromethoxy-1-methyl-1H-pyrazol-3-yl)-4-fluorophenoxyacetate]****	0.067%

OTHER INGREDIENTS:	49.743%
TOTAL:	100.000%

Contains Petroleum Distillate.

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	27.80%, 2.286 lbs./gal.
** (3,5,6-trichloro-2-pyridinyl)Oxyacetic acid	3.46%, 0.286 lbs./gal.
***3,6-Dichloro-o-anisic Acid	3.46%, 0.286 lbs./gal.
****Pyraflufen ethyl	0.067%, 0.0055 lbs./gal.

For Use by Turf Maintenance Personnel, Landscape or Commercial Applicators only.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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. 228-590  
EPA EST. NO.

Manufactured For  
NUFARM AMERICAS INC.  
150 Harvester Drive  
Burr Ridge, IL 60527



NET CONTENTS: Gal. ( L)

000228-00590.20090209.EPA.NN20110823.MASTER (RV031109) removal of self-limiting statement  
NUP-08047

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

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**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 and other handlers must wear:**

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

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.

<b>USER SAFETY RECOMMENDATIONS</b>	
<b>Users Should:</b>	
<ul style="list-style-type: none"> <li>• Wash hands, face, and arms with soap and water before eating, smoking, drinking 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 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 a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<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 ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"> <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>

<b>HOT LINE NUMBER</b>	
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.	

<b>NOTE TO PHYSICIAN</b>	
Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates. This product may contaminate water through drift of spray in wind or via runoff events. Use care when applying in areas adjacent to any body of water. To prevent contamination of the environment, do not apply near water, storm drains, gutters or ditches. Do not apply when rain is predicted for that day or when wind is strong enough to carry spray away from treatment area. Rinse applicator equipment over the lawn or garden area that was treated, and away from water, storm drains, gutters or ditches.

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 the 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.

Aerial application is prohibited.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order of Injunctive Relief in Washington Toxics Coalition et al vs. EPA C01-132C (W.D.WA). For information, please refer to [www.epa.gov/espp](http://www.epa.gov/espp).

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### 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 12 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: long-sleeved shirt and pants, shoes plus socks and chemical-resistant gloves made of any waterproof material.

### 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, do not allow people (other than applicator) or pets on treatment area during application.

Do not enter treatment areas until spray has 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

Use only Medium or coarser spray nozzles according to ASAE (S572) definition for standard nozzles.

#### Wind Speed

Do not apply at wind speeds greater than 15 mph.

#### Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if: 1) conditions of temperature inversion exist, or 2) 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.

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

### USE PRECAUTIONS

For turf use, the maximum number of broadcast applications per treatment site is 2 per year. Failure to observe all precautions may result in injury to turf and/or susceptible plants.

### PRODUCT INFORMATION

This product combines 2,4-D, Triclopyr, Dicamba and Pyraflufen to provide fast-acting broadleaf weed control.

- Postemergent control of a comprehensive list of tough broadleaf weeds in turfgrass.
- Fast-acting formulation designed to show weed injury symptoms within 24 to 48 hours of application.
- Premium chemistry, including triclopyr, provides maximum weed control power for hard-to-kill weeds like wild violet, wild geranium, spurge and oxalis.
- Pyraflufen-Ethyl not only accelerates the speed of control, but is also an effective herbicide that broadens the weed control spectrum of the product.

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### USE SITES

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

Avoid mist (spray drift) to vegetables, flowers, ornamentals, shrubs, trees and other desirable plants. Do not pour spray solutions near these plants. Do not spray on carpetgrass, dichondra nor on lawns or turf where desirable clovers are present. Avoid fine mists. Except as noted, use only lawn-type sprayers. Coarse sprays are less likely to "wind-drift". Use coarse spray droplets. Do not spray roots of ornamentals and trees. Do not exceed specified dosages for any area; be particularly careful within the dripline of trees and other species.

Do not use this product near or in greenhouses.

### TIMING

For best results, apply this product to young, actively growing weeds as a postemergence broadcast or spot spray. Follow-up applications may be required for dense infestations and hard to control species.

#### NEWLY SEEDED AREAS:

Do not apply to newly seeded grasses until well established unless discoloration or damage can be tolerated.

#### NEWLY SODDED, SPRIGGED, OR PLUGGED AREAS:

Do not apply to newly sodded, sprigged, or plugged grasses for at least 3 to 4 weeks after the sodding, sprigging, or plugging operations.

#### SEEDING:

Reseed no sooner than 2 weeks after application of this product. In areas that are slit seeded, to assure seed soil contact, reseeding interval may be reduced to 7 days.

#### MOWING:

For best results, turf should not be mowed for 1 to 2 days before or after application to maximize leaf surface of the target plant and aid in translocation.

### IRRIGATION, RAINFALL AND TEMPERATURE

When air temperature exceeds 90°F, temporary turf injury may result from broadcast applications. Limit applications to spot or directed applications. Manage the application rate to minimize the potential for injury.

When treating Carpetgrass and St. Augustine's grass, avoid broadcast applications when air temperature exceeds 80°F. When air temperatures exceed 80°F, limit application to spot treatment only to avoid temporary turf injury.

Avoid applying during excessively dry or hot periods unless irrigation is used. For optimum results, do not apply if rainfall is expected within 4 hours; delay irrigation cycle for 24 hours.

### MIXING INSTRUCTIONS

Begin with a clean spray tank. Fill the spray tank with one-half the required amount of water. Slowly add this product while agitating, then complete filling the tank with water.

Maintain continuous agitation until spraying is complete. If left standing for extended periods of time, re-agitate to assure uniformity of the spray mixture.

This product can be tank 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.

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. Failure to observe the above precautions may result in injury to turf and other desirable vegetation.

The following compatibility test should always be performed prior to full-scale tank mixing.

1. Pour 18 fluid ounces of water into a quart jar.
2. Add 1 fluid ounce of either the liquid fertilizer or liquid iron to be used.
3. Add 1 fluid 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.

Sprayer Cleaning: Clean application equipment thoroughly before and after application to prevent cross-contamination. Use a strong detergent or approved spray tank cleaner and rinse thoroughly.

**WEEDS CONTROLLED**

This product will control or suppress the following list of broadleaf weeds as well as many other broadleaf weeds susceptible to 2,4-D.

Beggarweed	Cornspeedwell	Lambsquarter	Purslane	Veronica
Bindweed	Dandelion	Lespedeza	Ragweed	Vetch
Black medic	Dock	Little Starwort	Red clover	Wild aster
Buckhorn	Dog fennel	Mallow	Red sorrel	Wild carrot
Burdock	English daisy	Matchweed	Sheep sorrel	Wild garlic
Buttercup	Florida pusley	Morningglory	Shepherdspurse	Wild geranium
Canadian thistle	Frenchweed	Mustard	Smartweed	Wild lettuce
Carpetweed	Goldenrod	Oxalis	Sowthistle	Wild onion
Catnip	Ground ivy	(Stricta and	Speedwell	Wild radish
Chamise	Hawkweed	Comiculata)	Spiderwort	Wild violet
Chickweed	Healall	Parsely-piert	Spotted catsear	Wood sorrel
Chicory	Heartleaf drymary	Pennywort	Spurge	Yarrow
Cinquefoil	Henbit	Pepperweed	Spurweed	and other
Clover	Jimsonweed	Pigweed	Stinging nettle	broadleaf weeds
Cocklebur	Knawel	Plantain	Stitchwort	
Coffeeweed	Knotweed	Poison ivy	Thistle	
Cornflower	Kochia	Poison oak	Toadflax	

**TURF, ORNAMENTAL**

(golf courses, cemeteries, parks, sports fields, turfgrass, lawns and other grass areas)

**AND**

**TURF GROWN FOR SOD**

**APPLICATION RATES**

SITE	USE RATE (Fluid Ounces)	SPRAY VOLUME (Gallons)	USE RATE (Pints)	SPRAY VOLUME (Gallons)	USE DIRECTIONS
	PER 1,000 SQ. FT.		PER ACRE		
Bahiagrass, Bluegrass, Common Bermudagrass, Fescue, Ryegrass, Zoysiagrass	1.1 to 1.5	0.1 to 5.0	3.0 to 4.0	3 to 220	<p><b>Bermudagrass</b> - If Bermudagrass is dormant, up to 4 pints per acre may be used. However, some hybrid Bermudagrasses may be sensitive to this product. Contact your local extension service weed control specialist.</p> <p><b>Warm Season Turfgrass</b> - Use reduced rates if grass is stressed from heat or drought. Exercise care when applying during growth stages from</p>
St. Augustinegrasses and Centipedegrass	0.50 to 0.75	1.0 to 5.0	1.5 to 2.0	40 to 200	
Bentgrass (Putting and Bowling Greens)	0.67	3.3	1.8	145	<p><b>Bentgrass</b> - Apply on closely mowed Bentgrass, preferably in May or mid-August through September. Slight turf yellowing will disappear after about one week.</p>

**NOTE:** Care should be taken to avoid overdosing Bentgrass, St. Augustine, and Centipede grasses or injury may result. Higher volumes of water (i.e. one fluid ounce in 2 to 4 gallons of water per 1,000 square feet ) will aid in obtaining uniform coverage. If hand-type sprayers are used, it is preferable to use a single nozzle sprayer rather than a multiple nozzle boom as sideways application with a boom where the spray from more than one nozzle is allowed to fall on the same area will result in heavy local over-application and subsequent turf discoloration or injury.

Ornamental Turf: Make no more than 2 applications per year.

Turf Grown for Sod: Make no more than 2 applications per year. Minimum interval for 21 days between applications.

**LOW VOLUME SPRAY APPLICATION EQUIPMENT**

EQUIPMENT	APPLICATION	USE RATE		USE DIRECTIONS
		Fluid Ounces per 1,000 Square Feet	Pints per Acre	
<b>Controlled Droplet Applicators (CDA), Atomizers and Spinning Disk Applicators</b>	Bluegrass, Fescue, Ryegrass	1.1 to 1.5	3.0 to 4.0	Use in sufficient water to assure coverage (1 to 4 gallons of water per acre is normal for this type of equipment). Do not overlap spray patterns.
	St. Augustinegrass, Centipede grass, Bahiagrass, Common Bermudagrass, Zoysiagrass	0.50 to 0.75	1.5 to 2.0	Use in sufficient water to assure coverage (1 to 4 gallons of water per acre is normal for this type of equipment); and follow CDA spray instructions for cool season grasses. Use reduced rates if grass is stressed from heat, drought, etc.
<b>Lower Volume Equipment (equipped w/ spray nozzles)</b>	Bluegrass, Fescue, Ryegrass, St. Augustinegrass, Centipede grass, Bahiagrass, Common Bermudagrass, Zoysiagrass	1.1 to 1.5	3.0 to 4.0	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.

**NON-CROPLAND**

**(fencerows, hedgerows, roadsides, ditches, rights-of-way, utility, pipelines, powerlines, railroads, airports, commercial plants, storage and lumber yards, barrier strips and firebreaks, equipment areas, nurseries and ornamental plantings, fuel tank farms, pumping stations and other industrial sites)**

**Roadsides (including aprons and guardrails), rights-of-way and other similar non-crop areas:** For control of broadleaf weeds, mix at a rate of 3.5 to 7.5 pints of this product per acre in enough water to wet all parts of the foliage. This may require 50 to 300 gallons of water per acre. This mixture will cover 43,560 square feet [one 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. Some weed species harden off during the summer making control difficult. 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 the high water volume. For small (spot) applications with small tank sprayers, apply at the rate of 4 ounces of this product per gallon of water and spray to thoroughly wet all foliage.

Annual/Perennial Control: Make no more than 2 applications per year.

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.

**Woody Brush:** Add 1 to 1.5 gallons of this product per acre to wet all parts of the brush foliage, stem and bark. This may require up to 200 to 600 gallons of water per 43,560 square feet [one acre] depending upon the height and thickness of the brush. Mix thoroughly before spraying.

Woody Plant Control: Make no more than 1 application per year.

This product will either kill, control or suppress the weeds listed in the label booklet for this product. Some of these species may require repeat spot applications even under ideal conditions for application.

**Maximum Seasonal Application Rate to non-cropland sites is 4 pounds 2,4-D Acid equivalent per acre per application site.**

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## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** This product should be stored in its original container in a cool, dry locked place out of the reach of children and out of direct sunlight. Do not use or store near heat or open flame. Store at temperatures above 32°F. If allowed to freeze, remix 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:** To avoid wastes, use all material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### CONTAINER DISPOSAL:

**[Nonrefillable Containers 5 Gallons or Less:]** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** 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.

**[Nonrefillable Containers Larger than 5 Gallons:]** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times.

Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**[Refillable Container Larger than 5 Gallons:]** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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