

228-455

3-24-2008

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

228-455

Date of Issuance:

24 MAR 2008

Term of Issuance:

Name of Pesticide Product:

Strike 3 Ultra Selective  
Herbicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas Inc.  
150 Harvester Drive  
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/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 agree in writing to:

1) This product meets the criterion for restricted use classification based on data that place it in toxicity category I for eye irritation. This product must either be reformulated to reduce the toxicity so that restricted use classification is no longer triggered for this product or the following Restricted Use text must be added to the label. (Refer to 40 CFR 156.10 for details).

“Restricted Use Pesticide

Due to eye irritation. For retail sale to and use only by Certified Applicators or persons under their

direct supervision and only for those uses covered by the Certified Applicator's Certification."

- 2) The text "Note: Spanish language is optional" must be deleted from the first page of the label.
- 3) Additional text should be added to the Note to Physician that addresses eye irritation concerns.
- 4) The text "Wear protective eyewear (goggles, face shield or safety glasses)" appearing the Hazards to Humans and Domestic Animals section is incomplete, is duplicated in the PPE section of the label and must be deleted.
- 5) The PPE section must be revised to read:

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

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

- Long-sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves,
- Goggles, face shield or safety glasses, and
- Chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements."

- 6) The mechanical transfer engineering control text may be deleted from the label. If this product is not intended to be applied by air add a statement prohibiting aerial application and delete all reference to aerial application including reference to "flaggers" and "pilots." Otherwise, the following text must be added to the label:

"Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40CFR 170.240 (d)(6)."

- 7) In the Environmental Hazards section, delete the text "except as noted on appropriate labels" from the text "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."

- 8) With the exception of drift-related text appearing in the Environmental Hazards ("Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas") and General Precautions and Restrictions ("Do not apply this product in a way that will contact workers or other persons, either directly or through drift"), all drift text appearing on the label must be placed together and be located below the following required text. Any conflicting text must be deleted from the label.

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

**Wind Speed**

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

**Temperature Inversions**

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

**Susceptible Plants**

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

**Other State and Local Requirements**

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

**Equipment**

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

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If aerial application is intended add the following text:

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

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

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

If ground boom application is intended add the following text:

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

9) The rates appearing in the application directions under the heading “Limitations for Use on Ornamental Turf” (“The maximum rate per application is 4 pints per acre, limited to 2 applications per year. The maximum seasonal rate is 8 pints per acre, excluding spot treatment”) [1.6 lbs ae and 3.2 lbs ae, respectively] exceed the allowable application rate of 1.5 lb ae per acre for a single application and a maximum seasonal application rate of 3.0 lb ae per acre. The label must be revised.

10) The directions to apply up to 8 pints in 100 gallons of water applying 200 to 600 gallons of spray mixture per 43,500 square feet to control woody plants under the heading “Non-Turf Areas” exceed the maximum allowable rate of 2.0 lbs ae per acre for annual and perennial weeds and 4.0 lbs ae per acre for wood plants. The label must be revised.

11) Remove “Similar Non-Crop Areas” from the heading on page 1.

12) Remove “Similar turf areas” from the Directions for Use on page 2.

13) On page 5 remove “recommended” from “Recommended Rates for Sod Farms”.

14) Remove “and other similar non-crop areas” from page 6.

15) On page 7 add “to the extent consistent with applicable law” in front of “manufacturer or seller shall not”.

Signature of Approving Official:

*Joanne D. Miller*

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

Date:

24 MAR 2008

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You will submit one copy of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions please call Erik Kraft at 703-308-9358.

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# STRIKE 3 ULTRA<sup>®</sup> 3 SELECTIVE HERBICIDE

A Three-Way Post-Emergent Selective Broadleaf Herbicide Containing 2,4-D, Fluroxypyr And Dichlorprop-p.  
For Use On Golf Courses, Parks, Highways, Ornamental Turf Lawns And Similar Non-Crop Areas.  
Also For Use On Sod Farms. Kills Dandelions, Chickweeds, Plantains, Oxalls, Spurge And Many Other  
Broadleaf Weeds, Some Of Which Are Listed On This Label.

GET THE OPTICAL ADVANTAGE<sup>®</sup>

**ACTIVE INGREDIENTS:**

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*	39.30%
1-Methylheptyl Ester of Fluroxypyr: [(4-amino-3-5-dichloro-6-fluoro-2-pyridinyl) oxy] acetic Acid, 1-methylheptyl ester**	5.88%
Dimethylamine Salt of (+)-R-2-(2,4-Dichlorophenoxy) propionic Acid***‡	9.72%
<b>OTHER INGREDIENTS:</b>	<u>45.10%</u>
<b>TOTAL:</b>	<b>100.00%</b>

Isomer Specific Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	32.64%, 3.2 lbs/gal.
**[(4-amino-3-5-dichloro-6-fluoro-2-pyridinyl) oxy] acetic acid	4.08%, 0.4 lbs/gal.
***(+)-R-2-(2,4-Dichlorophenoxy) propionic Acid	8.16%, 0.8 lbs/gal.

‡CONTAINS THE SINGLE ISOMER FORM OF DICHLORPROP-p.

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

DO NOT SELL, DISTRIBUTE OR USE THE PRODUCT IN NASSAU AND SUFFOLK COUNTY IN NEW YORK.

**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

NOTE: Spanish language is optional

EPA REG. NO. 228-455  
EPA EST. NO. 228-IL-1

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



NET CONTENTS      GALS.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

24 MAR 2008

000228-00455.20071107.EPA24D.Pending

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

228-455

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

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses).

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

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

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

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

See engineering controls for additional requirements.

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

**Engineering Control Statements:**

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

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

**USER SAFETY RECOMMENDATIONS**

**Users Should:**

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

**FIRST AID**

<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>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>

**HOT LINE NUMBER**

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.

**NOTE TO PHYSICIAN**

Probable mucosal damage may contraindicate the use of gastric lavage.

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

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

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

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.

\*Excluding Bentgrass Tees.

**AGRICULTURAL USE REQUIREMENTS**

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

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

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

**NON-AGRICULTURAL USE REQUIREMENTS**

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

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

**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. Augustine, Dichondra, 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. Do not apply to newly seeded grasses until well established. Avoid broadcast applications when air temperature exceeds 90 degrees. When using small, spot treatment applications in temperature over 90 degrees, turf injury may occur.

When treating Carpetgrass and St. Augustine grass, avoid broadcast applications when air temperature exceeds 80 degrees. When air temperatures exceed 80 degrees, limit application to spot treatment only.

The suitable use on non-recommended turf species may be determined by treating a small area at any rate/acre which does not exceed 3 pints/acre. 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.

For optimum results: (1) avoid applying during excessively dry or hot periods unless irrigation is used; (2) turf should not be mowed 1 to 2 days before and following application; (3) reseed no sooner than 3 to 4 weeks after application of this product. 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 pesticide should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposure.



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Under some conditions this product may have a potential to run-off to surface water or adjacent land. Where possible, use methods which reduce soil erosion, such as no till, limited till and contour plowing; these methods also reduce pesticide run-off. Where feasible, use application techniques such as T-banding and in-furrow techniques which incorporate the pesticide into the soil. Use of vegetation filter strips along rivers, creeks, streams, wetlands, etc. or on the downhill side of fields where run-off could occur will minimize water run-off.

Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

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. Do not apply this product through any type of irrigation system.

**WEEDS CONTROLLED**

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

(Continued)

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**WEEDS CONTROLLED (Continued)**

Venice mallow	White clover	Wild marigold	Woolly morningglory
Veronica	White mustard	Wild onion	Woodsorrel
Vervain	Wild mustard	Wild parsnip	Woolly croton
Vetch	Wild aster	Wild radish	Woolly plantain
Virginia buttonweed	Wild buckwheat	Wild rape	Wormseed
Virginia creeper	Wild carrot	Wild strawberry	Yarrow
Virginia pepperweed	Wild four-o'clock	Wild sweet potato	Yellow rocket
Wavyleaf bullthistle	Wild garlic	Wild vetch	Yellowflower pepperweed and other broadleaf weeds.
Western clematis	Wild geranium	Willow	
Western salsify	Wild lettuce	Witchweed	

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.

**RECOMMENDED MIXING INSTRUCTIONS**

Fill spray tank with water. Start agitation and slowly add the recommended amount of concentrate. Maintain continuous agitation after mixing and during application. If this product is allowed to stand in tank for extended periods of time, some separation may occur. Reagitate before use.

**ORNAMENTAL LAWNS AND TURF**

Apply this product at the rate of 2 to 3 pints in 20 to 240 gallons of water per acre (0.73 to 1.10 fluid ounces in 0.5 to 5.5 gallons of water per 1,000 square feet) to control weeds growing in turf planted to bluegrass, fescue, ryegrass, bentgrass (excluding golf course greens and tees), bahiagrass, bermudagrass and zoysia grass.

**Notes:** 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 (0.73 fluid ounces in 0.5 to 5.5 gallons of water per 1,000 square feet). 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 ounces in 0.3 to 5.5 gallons per 1,000 square feet). 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 bentgrass greens or tees. On warm season grasses, exercise care when applying during growth stages from dormancy to green-up and from green-up to dormancy. Some temporary discoloration may occur. 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.

**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.

**Limitations for Use on Ornamental Turf:** The maximum rate per application is 4 pints per acre, limited to 2 applications per year. The maximum seasonal rate is 8 pints per acre, excluding spot treatments.

**SOD FARMS**

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 Floratam St. Augustinegrass.

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, dormant zoysia grass and dormant bahiagrass are suggested.

**Recommended Rates for Sod Farms**

For bluegrass, ryegrass and fescue, apply 2 to 3 pints per acre. For creeping bentgrass use 1.25 pints per acre. For common and hybrid bermudagrass, bahiagrass, zoysia grass and St. Augustine grass 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.

**Limitations for Use on Sod:**

The maximum rate per application is 5 pints, limited to 2 applications per year. Minimum of 21 days between applications.

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## 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 5 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 2.25 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 43,500 square feet depending upon the height and thickness of the brush. Mix thoroughly before spraying.

### Limitations for Non-Turf Areas:

For annual and perennial weeds, the maximum rate per application is 5 pints per acre, limited to 2 applications per year. Minimum of 30 days between applications. For woody plants, the maximum rate per application is 10 pints per acre, limited to 1 application per year.

Applications to non-cropland areas are not applicable to treatment of commercial timber or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

## 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 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.

## 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. Protect from freezing. Store at temperatures above 25°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 acutely hazardous. 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), adding rinsate to spray tank. 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.

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#### **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.

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