



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

228-741

Date of Issuance:

4/2/18

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

NUP-16011 Herbicide

Name and Address of Registrant (include ZIP Code):

Gregory Mattern
Director – US Regulatory Affairs
Nufarm Americas, Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560

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 (FIFRA).

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 conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continued on page 2

Signature of Approving Official:

Sincerely,

Grant Rowland, Product Manager 23
Herbicide Branch, Registration Division (7505P)

Date:

4/2/18

2. You are required to comply with the data requirements described in the Generic Data Call-Ins (GDCIs) identified below:

- a. Flumioxazin GDCI-129034-1236
- b. Fluroxypyr GDCI-128968-1498
- c. Triclopyr GDCI-116001-1546

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCIs listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The following alternate brand names are added for this product:

- SURE POWER
- SURE POWER HERBICIDE
- SURE POWER SELECTIVE HERBICIDE
- COOL POWER 2 SELECTIVE HERBICIDE
- ArmorTech TETRA
- ArmorTech PER4MER
- ArmorTech QUADRANT

Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 07/07/2017
- Alternate CSF #1 dated 07/07/2017

If you have any questions, please contact Mindy Ondish by phone at 703-605-0723, or via email at ondish.mindy@epa.gov.

ACCEPTED

04/02/2018

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 228-741

2,4-D, Triclopyr, Fluroxypyr	GROUP	4	HERBICIDE
Flumioxazin	GROUP	14	HERBICIDE

NUP-16011 Herbicide

(ABNs: SURE POWER®, SURE POWER® HERBICIDE, SURE POWER® SELECTIVE HERBICIDE,
COOL POWER 2 SELECTIVE HERBICIDE, ArmorTech TETRA, ArmorTech PER4MER,
ArmorTech QUADRANT)

CONTAINS 2,4-D, FLUROXYPYR, TRICLOPYR AND FLUMIOXAZIN

FOR FAST, SELECTIVE WEED CONTROL IN ORNAMENTAL LAWNS AND TURF GRASSES

ACTIVE INGREDIENTS

Isooctyl (2-ethylhexyl) Ester of 2,4-D*	36.33%
Butoxyethyl Ester of Triclopyr**	3.63%
1-Methylheptyl Ester of Fluroxypyr***	3.63%
Flumioxazin****	0.22%

OTHER INGREDIENTS 56.19%**TOTAL:** 100.00%

By Isomer Specific AOAC Method, Equivalent to:

*2,4-D acid	24.09%, 2.19 lb/gal
**Triclopyr acid	2.61%, 0.24 lb/gal
***Fluroxypyr acid	2.52%, 0.23 lb/gal
****Flumioxazin	0.22%, 0.02 lb/gal

DO NOT SELL, DISTRIBUTE OR USE THIS PRODUCT IN NASSAU AND SUFFOLK COUNTIES IN NEW YORK.

**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) 325-1840EPA REG. NO. 228-741
EPA EST. NO. _____MANUFACTURED FOR
NUFARM AMERICAS INC.
11901 S. AUSTIN AVE.
ALSIP, IL 60803
(800) 345-3330

NET CONTENTS: ____ GAL. (____ L)

[Designation as "NONREFILLABLE" or "REFILLABLE" for containers >5 gals]

[[Nufarm] Grow a better tomorrow]

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION / PRECAUCION

Harmful if swallowed. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

- long-sleeved shirt and long pants,
- shoes and socks,
- chemical-resistant gloves made of barrier laminate, butyl rubber (≥14 mil.), nitrile rubber (≥14 mil.) or viton (≥14 mil.).
- chemical-resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

See engineering controls for additional requirements.

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

Engineering Control Statement:

When handlers use closed systems or enclosed cabs 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

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

**IF ON SKIN
OR CLOTHING**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

HOTLINE 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, aquatic invertebrates, and non-target plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

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.

This pesticide must be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposure.

Do not apply this product in a way that will contact workers, other persons, or pets, either directly or through drift. Keep people and pets

out of the area during application. 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 24 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 worn over short-sleeved shirt and short pants
- chemical-resistant footwear plus socks
- chemical-resistant gloves (see PPE section above)
- chemical-resistant headgear for overhead exposure
- 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.

This product is a combination of 4 active ingredients and provides fast effective weed control of troublesome weeds in Ornamental Turf Lawns (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Fairways and Roughs); also for use on Sod Farms and other similar turf areas. Additionally, this product is for use in roadsides, rights-of-way, industrial areas, railroads and fence rows.

This product is formulated as a suspoemulsion (SE) intended for dilution with water. Good spray coverage is needed for optimum weed control. Turfgrass discoloration may occur when using this product. Discoloration is transient and grasses will return to normal color.

USE RESTRICTIONS

Do not apply this product through any type of irrigation system. Do not apply this product aerially. Do not use on golf course greens or tees. Do not use in or near greenhouses. Do not graze or hay treated areas. Do not pour spray solutions near desirable plants. Do not use on Carpetgrass, Centipede, St. Augustine, Dichondra, nor on lawns or turf where desirable clovers are present. Do not exceed specified dosages for any area; be particularly careful within the dripline of tree and other ornamental species.

The maximum rate per application is 3.5 pints per acre, and the maximum seasonal rate is 7.25 pints per acre per year. Do not apply more than 2 broadcast applications to the same treatment site per year, excluding spot treatments. The minimum retreatment interval between broadcast applications is 30 days.

This product may volatilize during conditions of low humidity and high temperatures. Do not apply during conditions of low humidity and high temperatures.

USE PRECAUTIONS

Failure to observe all precautions may result in injury to turfgrass and/or susceptible plants. Avoid drift of spray mist to vegetables, flowers, ornamental plants, shrubs, trees and other desirable plants. 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 caution when applying to ensure no spray solution collects on the tires of application equipment. Also, assure that sprays completely dry prior to entering treated areas as accumulation on tires can lead to tracking. Avoid broadcast applications when daily high air temperature exceeds 80 degrees. Limit applications to spot treatments or directed applications when air temperatures exceed 80 degrees. When using small, spot treatment applications in temperature over 80 degrees, turf injury may occur. Avoid applications during excessive dry or hot periods unless irrigation is used. Avoid applications during foggy or high moisture and wet turfgrass foliage. For optimum results, do not apply if rainfall is expected within 1 hour of the application.

The suitable use of this product on non-recommended turf species may be determined by treating a small area at 1.5 pints per acre. The treated area should be observed for any sign of turf injury for a period of 7 days of normal growing conditions to determine the phytotoxicity and efficacy to the treated area.

Adding adjuvants, oils, wetting agents, fertilizers, surfactants or other active ingredients to the spray solution may reduce selectivity to turf resulting in turf damage. Temporary turfgrass discoloration may result when any other products including other pesticides are added. High temperatures and high relative humidity increases the risk of turfgrass discoloration. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other sprays. When making a tank mix for the first time, it is recommended

to treat a small area and evaluate for phytotoxicity.

Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to <http://www.epa.gov/espp/litstatus/wtc/>

SPRAY DRIFT MANAGEMENT

All ground application equipment must be properly maintained and calibrated using appropriate carriers and surrogates. The applicator must evaluate all factors and make appropriate adjustments when applying this product. 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.

Droplet Size

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.

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 bodies of water, known habitat for nontarget species, nontarget crops) within 250 feet downwind.

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 herbicides. Where states have more stringent regulations, they must be observed.

Equipment

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

WEED RESISTANCE MANAGEMENT

For resistance management, this product contains both Group 4 herbicides (2,4-D, Fluroxypyr and Triclopyr) and a Group 14 herbicide (Flumioxazin). Any weed population may contain or develop plants naturally resistant to this herbicide and other Group 4 and 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance- management strategies should be followed.

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 4 and 14 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g., timing to favor the desirable plants and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by

an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

- Contact your local extension specialist or pest controls advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of plants and weed biotypes.

- [For further information or to report suspected resistance, contact [Nufarm contact] at [one of][any of] the following] [[[X]-XXX-XXX-XXXX] [,.][or]] 1-800-345-3330 [,.][or]] [Nufarm e-mail address] [][.][or]] [Nufarm website] [][.][or]][XXXX].]

SPRAYING INSTRUCTIONS

Spray Volumes: Apply in 10 to 240 gallons of water per acre (0.2 to 5.5 gallons of water per 1,000 square feet).

Spot Spray with Hand Sprayers: Calibration and proper uniformed applications are essential when using this product. Over application or rates above those specified including excessive overlaps of this product can cause injury. Calibrate sprayer to deliver 1 gallon of spray solution per 1,000 square feet of treated area.

- Fescue species- Mix [0.37] [0.55] [0.73] to 1.28 fl oz per gallon of water and treat 1,000 sq. ft. of turfgrass.
- Kentucky Bluegrass and Perennial Ryegrass- Mix [0.55] [0.73] to 1.28 fl oz per gallon of water and treat 1,000 sq. ft. of turfgrass.

Lower Volume Equipment: Use as little as 10 gallons of water per acre. Use only application equipment that is capable of spreading a uniform droplet, wetting each weed surface.

WEEDS CONTROLLED

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

For complete control, some of these species may require repeat spot applications and/or use of the highest specified rate.

ORNAMENTAL LAWNS AND TURF AND SOD FARMS

Apply this product in 10 to 240 gallons of water per acre (0.2 to 5.5 gallons of water per 1,000 square feet) to control weeds growing in Kentucky Bluegrass, Perennial Ryegrass, and Fescue species (excluding golf course greens and tees). **See below table for details on application rates.**

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. For all applications: (1) do not overlap spray patterns; and (2) use reduced rates if turfgrass is stressed from heat, drought, etc.

Note: During conditions which promote turf stress use lower rates. Turfgrass yellowing and bronzing may occur following application and will disappear after 7 to 14 days after application. Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce potential for discoloration, avoid applications to turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress.

TURFGRASS*	USE RATE (Fluid Ounces)	USE RATE (Pints)	USE DIRECTIONS
	Per Acre	Per Acre	
Fescue species	[16] [24] [32] to 56	[1] [1.5] [2] to 3.5	Use reduced rates if grass is stress from heat or drought. Some temporary discoloration and growth regulation may occur.
Kentucky Bluegrass Perennial Ryegrass	[24] [32] to 56	[1.5] [2] to 3.5	For best results apply when weeds are small in size and actively growing.

*This herbicide has demonstrated turfgrass tolerance. However, not all varieties have been evaluated. Turfgrass managers should treat small areas prior to widespread use.

APPLICATION TIMING

For best results, apply this herbicide in the late winter/early spring or early fall to young weeds that are actively growing. Follow-up applications may be required for dense infestations of perennial and biennial weeds.

Newly Seeded Areas: The application of this herbicide to grass seedlings is not recommended until after the second mowing. Do not apply to newly seeded areas until grass is 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 4 weeks after the sodding, sprigging, or plugging operations.

Seeding: Grass and broadleaf weeds germinate throughout the year. This herbicide will provide up to 4 weeks residual weed control after application. Thus, reseed no sooner than 4 weeks after application of this product. When slit seeding, ensure good seed/soil contact and reseeding interval can be reduced to 21 days.

Mowing: For best results, turf should not be mowed for 1 day before or after application to maximize leaf surface and herbicide uptake and translocation.

NON-TURF AREAS

Roadsides (including aprons and guardrails), rights-of-way, industrial areas, railroads and fence rows: Apply 2 to 3.5 pints of this product per acre to control listed broadleaf weeds. Apply in 10 to 240 gallons of water per acre (0.2 to 5.5 gallons of water per 1,000 square feet).

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 the herbicide has had sufficient time to translocate to the roots. 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 1.0 fluid ounces of this product per gallon of water and spray to thoroughly wet all foliage.

Limitations for Non-Turf Areas:

Applications to non-turf 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.

MIXING AND CLEANING INSTRUCTIONS

Fill spray tank with water. Start agitation and slowly add the specified 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.

Clean application equipment carefully before and after application. Use a strong detergent or tank cleaner to rinse all parts of the sprayer thoroughly.

COMPATIBILITY

Because other active ingredients, surfactants, adjuvants, 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 relating to the application of all products must be strictly followed. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. 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 the 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.

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 25 F. Protect product from freezing. If allowed to freeze, remix well 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: 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 HANDLING: Nonrefillable Containers 5 Gallons or Less: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. 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. If recycling or reconditioning not available, 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. 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 containers 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. 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.

OR

Refillable Container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

FOR RESIDENTIAL USE

CONTAINER HANDLING: If empty - Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled** - If product cannot be used as directed, call your local solid waste agency for disposal instructions. Never place unused product down any indoor (including toilet) or outdoor (including sewer) drain.

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