



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

228-756

Date of Issuance:

9/12/25

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Nufarm NUP-19064 Herbicide

Name and Address of Registrant (include ZIP Code):

Nufarm Americas, Inc.  
4000 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/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

*Continues page 2*

Signature of Approving Official:

Mindy Ondish, Product Manager 23  
Herbicide Branch, Registration Division (7505T)

Date:

9/12/25

2. You are required to comply with the data requirements described in the generic data call-ins (GDCIs) identified below:
  - a. Dicamba GDCI-029801-1659
  - b. Dicamba GDCI-029801-1720
  - c. Dicamba GDCI-029801-1721
  - d. Dicamba GDCI-029801-1753
  - e. MCPP-P GDCI-129046-1480

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 Re-Evaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. 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) lists 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.

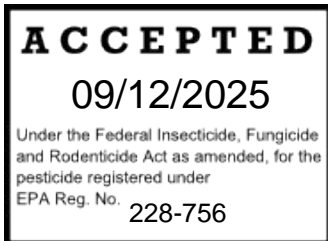
The alternate brand name, "**WEEDMASTER PRO**" is added to the product record.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 09/11/2025
- Alternate CSF 1 dated 09/11/2025

If you have any questions, please contact Curtis Hildebrandt at 202-566-2770 or at [hildebrandt.curtis@epa.gov](mailto:hildebrandt.curtis@epa.gov).

Enclosure



2,4-D	GROUP	4	HERBICIDE
DICAMBA	GROUP	4	HERBICIDE
MECOPROP-P	GROUP	4	HERBICIDE
SULFENTRAZONE	GROUP	14	HERBICIDE

[NOTE TO REVIEWER: [text] in brackets denotes optional text]

## NUFARM NUP-19064 HERBICIDE

[ABN: WEEDMASTER PRO]

FOR SELECTIVE BROADLEAF AND SEDGE CONTROL IN TURFGRASS

% by Weight

### ACTIVE INGREDIENTS:

2,4-D, triisopropanolamine salt*	46.02%
Mecoprop-P, dimethylamine salt **†	7.90%
Dicamba acid	2.28%
Sulfentrazone	0.71%

OTHER INGREDIENTS: 43.09%

TOTAL: 100.00%

Isomer Specific Method, Equivalent to:

*2,4-D acid	24.67%, 2.38 lb./gal.
**Mecoprop-P acid	6.53%, 0.63 lb./gal.
Dicamba acid	2.28%, 0.22 lb./gal.
Sulfentrazone	0.71%, 0.069 lb./gal.

†CONTAINS THE SINGLE ISOMER FORM OF MECOPROP-P

### 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 [BELOW] [INSIDE BOOKLET] [BACK PANEL] FOR [ADDITIONAL PRECAUTIONARY STATEMENTS] [AND] [DIRECTIONS FOR USE]

For Medical Emergencies, Call (877) 325-1840

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

#### FIRST AID

IF IN EYES	<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>
IF SWALLOWED	<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>

#### NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

#### 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 Nufarm at 1-877-325-1840 for emergency medical treatment information.

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

EPA REG. NO. 228-756

EPA EST. NO.

MANUFACTURED [BY] FOR  
NUFARM AMERICAS INC.  
11901 S. AUSTIN AVE.  
ALSIP, IL 60803



NET [WEIGHT] [CONTENTS] \_\_\_\_\_  
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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**DANGER**

Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. 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 plus socks
- Protective eyewear (goggles, face shield, or safety glasses)
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride  $\geq 14$  mils, or Viton  $\geq 14$  mils 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.

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

**ENGINEERING CONTROLS:**

When handlers use closed systems, enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.607 (d-e)], the handler PPE requirements 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.
- 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.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish and aquatic invertebrates and may adversely affect 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 terrestrial and aquatic plants in adjacent areas, or aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

2,4-D and Mecoprop-p have 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 ground water contamination. Application around a cistern or well may result in contamination of drinking water or groundwater. Do not use on coarse soils classified as sand which have less than 1% organic matter.

Most cases of groundwater contamination involving herbicides such as 2,4-D and MCP-p 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.

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

**NON-TARGET ORGANISM ADVISORY:** This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not mix or allow coming in 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 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.

This postemergence herbicide containing four active ingredients provides rapid control of troublesome weeds in Ornamental Turf Lawns (Residential, Industrial and Institutional), Parks, Cemeteries, Athletic Fields and Golf Courses (Excluding Greens and Tees), Sod Farms and other similar highly managed turf areas. Also, for use on roadsides, rights-of-way, industrial areas, fence rows and other similar areas with turfgrass.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 statement of this label about personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to users of this product that are covered by the WPS.

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 worn over short-sleeved shirt and short pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride  $\geq 14$  mils, or viton  $\geq 14$  mils
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure
- Protective eyewear (goggles, face shield or safety glasses)

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box only 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 others entry into treated areas until sprays have dried.

#### **MANDATORY SPRAY DRIFT MANAGEMENT**

##### Ground Applications:

- For boom applications, the maximum release height must be less than 30 inches from the soil.
- Ground applications must use a minimum finished spray volume of 10 gallons per acre.
- When tank mixing with a contact burndown herbicide, use a minimum spray volume of 15 gallons per acre.
- Select nozzles and pressure that deliver medium or coarser droplet size (ASABE S-572).
- Apply only when wind speed is between 3 and 10 mph.
- Do not apply during temperature inversions.

#### **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

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.

#### **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under environmental conditions.

#### **Controlling Droplet Size – Ground Boom**

*Volume* – Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

*Pressure* – Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

*Spray Nozzle* – Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

#### **BOOM HEIGHT – Ground Boom**

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

### **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift. 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 containing sensitive non-target plants, bodies of water, known habitat for non-target species, non-target crops) within 250 feet downwind. If applying a Medium spray, leave one swath unsprayed at the downwind edge of the treated field.

### **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.

### **Handheld Technology Applications:**

Take precautions to minimize spray drift.

### **WEED RESISTANCE MANAGEMENT**

For resistance management, please note that this product contains both Group 4 and Group 14 herbicides. Any weed population may contain or develop plants naturally resistant to Group 4 and/or 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly on the same use site. Appropriate resistance-management strategies should be followed. To delay herbicide resistance take one or more of the following steps:

- Rotate 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 certified crop 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, biological 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 sites 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 sales representative, agricultural dealer, consultant, local extension specialist, applicator, crop advisor, and/or appropriate state agricultural extension service representative for additional pesticide resistance-management and/or integrated weed-management recommendations for specific use sites and weed biotypes.
- Report any incidence of non-performance of this product against a particular weed species to your local sales representative or agricultural dealer.
- If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes, as practical, with the goal of preventing further seed production.
- To the extent possible, use a diversified approach toward weed management. Whenever possible incorporate multiple weed-control practices such as mechanical cultivation, biological management practices, and crop rotation.
- To the extent possible do not allow weed escapes to produce seeds, roots, or tubers.

- Prevent field-to-field and within-field movement of weed seed or propagules. Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed-control program should consider all of the weeds present.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weeds in the field.
- Use a broad spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed-control program. Do not use more than two applications of this or any other herbicide with the same mechanism of action within a single growing season unless mixed with an herbicide with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.
- Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to these MOAs have been found in your region. Do not assume that each listed weed is being controlled by multiple mechanisms of action. Co-formulated active ingredients are intended to broaden the spectrum of weeds that are controlled. Some weeds may be controlled by only one of the active ingredients in this product.

#### INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

#### 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 feed livestock hay or forage cut from treated areas.
- Do not pour spray solutions near desirable plants.
- Do not apply to carpetgrass, dichondra, legumes, or on lawns where desirable clovers are present unless removal is desired.
- Do not use this product on or near desirable plants, including within the dripline of the roots of desirable trees and shrubs, as injury may result.
- Do not apply to landscape ornamental plants or ornamental beds.
- Do not harvest sod within 3 months of application.
- Sod production areas must be established 3 months prior to the initial treatment of this product.
- Do not apply to frozen soils or existing snow cover to prevent runoff from rain or snowmelt that may occur following application.
- Do not exceed specified dosages for any area; be particularly careful within the dripline of tree and other ornamental species.
- Do not apply more than 4 pints of product (1.2 lb 2,4-D ae, 0.315 lb mecoprop-P ae, 0.11 lb dicamba ae, and 0.03 lb sulfentrazone ai) per acre per application.
- Do not apply more than 8 pints of product (2.4 lb 2,4-D ae, 0.63 lb mecoprop-P ae, 0.22 lb dicamba ae, and 0.069 lb sulfentrazone ai) per acre per year.
- Do not make more than 2 applications per year to the same treatment site, including spot treatments.
- The minimum retreatment interval is 30 days.
- When tank mixing with other products for broadcast application to turf (excluding sod farms), do not exceed a combined total of 1.5 lb 2,4-D ae, 1.0 lb dicamba ae, 0.75 lb mecoprop-P ae, or 0.375 lb sulfentrazone ai per acre per application. Do not exceed a combined total of 3.0 lb 2,4-D ae, 2.0 lb dicamba ae, 0.75 lb mecoprop-P ae, or 0.375 lb sulfentrazone ai per acre per year.
- When tank mixing with other products for broadcast application to turf grown for sod, do not exceed a combined total of 2.0 lb 2,4-D ae, 1.0 lb dicamba ae, 0.75 lb mecoprop-P ae, or 0.375 lb sulfentrazone ai per acre per application. Do not exceed a combined total of 4.0 lb 2,4-D ae, 2.0 lb dicamba ae, 0.75 lb mecoprop-P ae, or 0.375 lb sulfentrazone ai per acre per year.
- When tank mixing with other products for spot applications to turf including sod farms, do not exceed a combined total of 1.0 lb dicamba ae, 1.2 lb mecoprop-P ae, or 0.375 lb sulfentrazone ai per application per year.

#### State Restrictions:

**New York:** Only one application per year of this product is allowed. This product is not allowed to be sold, distributed or used in Nassau or Suffolk Counties.

**[California:** Make broadcast applications only between March 1 and September 1. If weeds appear during other times of the year, a spot application can be made. While sufficient amounts of water are necessary and important for plant growth, apply irrigation water efficiently so that no more than 125% of the net irrigation requirement is applied for any irrigation event. Apply efficient irrigation for six months following an application of a sulfentrazone containing product. Do not apply product to bare ground.]

**Arizona:** Do not use this product on sod farms.

#### USE PRECAUTIONS

Failure to observe all precautions may result in injury to turfgrass and/or susceptible plants.

- Avoid applications to newly seeded grasses until well established.
- 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.
- Use caution when applying to ensure no spray solution collects on the tires of application equipment.
- Use caution when daily high air temperature exceeds 90 degrees.
- Avoid applying during excessively dry or hot periods unless irrigation is used.
- For optimum results, do not apply if rainfall is expected within 2 hours of the application.
- Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other sprays.
- Do not use adjuvants, oils, wetting agents, fertilizers, surfactants or other pesticides to the spray solution unless your experience indicates that the tank mixture will not result in turf injury.

The suitable use of this product on non-recommended turf species may be determined by treating a small area at 3 pints per acre. The treated area should be observed for any sign of turf injury for a period of 14 days of normal growing conditions to determine the phytotoxicity and efficacy to the treated area.

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

#### 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 remains in a tank for extended periods of time, some separation may occur. Reagitate before use.

Clean application equipment carefully with a strong detergent or tank cleaner and rinse all parts of the sprayer thoroughly.

#### PROPER HANDLING INSTRUCTIONS

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sinkholes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pads or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment. Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsate.

#### SPRAYING INSTRUCTIONS

**Spray Distribution:** The accuracy and uniformity of the herbicide distribution is the sole responsibility of the applicator.

**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. When possible, calibrate sprayer to deliver 1 gallon of spray solution per 1,000 square feet of treated area. Adjust application rate accordingly if utilizing a higher or lower spray gallonage.

**Lower Volume Equipment:** Use at least 5 gallons of water per acre. Use only application equipment that can spread droplets uniformly, wetting each weed surface.

#### WEEDS CONTROLLED\*

Annual fleabane	Cocklebur	Jimsonweed	Poison oak	Wild carrot
Aster	Curly dock	Knotweed	Prostrate knotweed	Wild garlic
Bedstraw	Deadnettle	Kochia	Puncturevine	Wild geranium
Beggarticks	Dogfennel	Lambsquarters	Purple cudweed	Wild lettuce
Beggarweed	Dandelion	Lawn burweed	Purslane	Wild mustard
Bindweed	Dock	Lespedeza	Ragweed	Wild onion
Birdsfoot trefoil	False dandelion	Mallow	Red sorrel	Wild strawberry
Black medic	Field pennycress	Matchweed	Sheep sorrel	Yarrow
Buckhorn	Filaree	Mustard	Shepherdspurse	Yellow Nutsedge**
Bull thistle	Florida pusley	Morningglory	Speedwell	Yellow Woodsorrel
Burclover	Ground ivy	Nettle	Spurge	
Burdock	Groundsel	Old world diamond flower	Sunflower	
Carolina geranium	Hairy bittercress	Parsley-piert	Thistle	



Carpetweed	Hawkweed	Peppergrass	Velvetleaf
Chickweed	Healall	Pigweed	Venice mallow
Chicory	Henbit	Pineappleweed	Virginia buttonweed**
Cinquefoil	Horsenettle	Plantain	Virginia creeper
Clover	Horseweed	Poison ivy	Western salsify

\*Under poor growing conditions or with large weeds at application, some weeds may require a second treatment.

\*\*A second application may be required.

**Note:** Broadleaf weeds germinate at different times of the year. Only emerged weeds present at the time of application will be controlled by this product.

#### ORNAMENTAL LAWNS, TURF AND SOD FARMS

Apply 2 to 4 pts./A of this product to control weeds growing in Kentucky bluegrass, annual bluegrass, rough bluegrass, annual ryegrass, perennial ryegrass, chewings fescue, tall fescue, red or fine leaf fescues, creeping bentgrass, colonial bentgrass, hybrid Bermudagrass, common Bermudagrass, centipedegrass, zoysiagrass, bahiagrass and buffalograss, as well as dormant centipedegrass and St. Augustinegrass (in Texas, Louisiana and Mississippi only). 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.

#### APPLICATION RATES FOR ORNAMENTAL LAWNS, TURF AND SOD FARMS (golf courses, cemeteries, parks, sports fields, home lawns and other turfgrass areas)

TURFGRASS	USE RATE (fl. oz./1,000 sq. ft.)	USE RATE (Pints/Acre)	USE RATE (lbs ai/A)	USE DIRECTIONS
<b>Cool Season Turf</b> Kentucky bluegrass Annual bluegrass Rough bluegrass Annual ryegrass Perennial ryegrass Chewings fescue Tall fescue Red fescue Fine fescue	1.1 to 1.5	3 to 4	0.9-1.2 lb 2,4-D 0.24-0.32 lb Mecoprop-P 0.083-0.11 lb Dicamba 0.026-0.035 lb Sulfentrazone	Use a reduced rate (0.9 fl. oz./1,000 sq ft or 2.5 pints/acre) if grass is stressed from heat or drought.
<b>Warm Season Turf</b> Hybrid Bermudagrass Common Bermudagrass Centipedegrass Zoysiagrass Bahiagrass Buffalograss	0.9 to 1.1	2.5 to 3	0.75-0.9 lb 2,4-D 0.2-0.24 lb Mecoprop-P 0.068-0.083 lb Dicamba 0.022-0.026 lb Sulfentrazone	Use the lowest rate if grass is stressed from heat or drought. Exercise care when applying during growth stages from dormancy to green-up and from green-up to dormancy. Some temporary discoloration may occur on warm season grasses.
<b>Dormant Centipedegrass</b> (Texas, Louisiana, Mississippi only)  <b>Dormant St. Augustinegrass</b> (Common, Raleigh and Seville varieties grown in Texas, Louisiana, Mississippi only).	0.75 to 0.9	2 to 2.5	0.6-0.75 lb 2,4-D 0.16-0.2 lb Mecoprop-P 0.055-0.068 lb Dicamba 0.017-0.022 lb Sulfentrazone	Only apply to the listed varieties and locations of fully and completely dormant Centipedegrass or St. Augustinegrass.

<b>Bentgrass</b> Colonial Bentgrass Creeping Bentgrass (Excluding Greens and Tees)	0.75	2	0.6 lb 2,4-D 0.16 lb Mecoprop-P 0.055 lb Dicamba 0.017 lb Sulfentrazone	Care should be taken to avoid overdosing Bentgrass or injury may result.  Apply when weeds are actively growing, and temperatures are moderate to low with healthy Bentgrass under limited stress.
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**Note:** Bronzing with spotting and speckling on the turfgrass foliage may occur following application. Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce potential for discoloration, avoid applications to highly actively growing turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress.

#### APPLICATION TIMING

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 3 to 4 weeks after the sodding, sprigging, or plugging operations.

**Seeding:** Turf species listed on this label can be seeded into treated areas three weeks after the application.

**Mowing:** For best results, turf should not be mowed for 2 days before or after application to maximize leaf surface, herbicide uptake and translocation.

**Irrigation:** For best results do not irrigate or water the turf within 24 hours after application. If rainfall does not occur within 7 days of the application, irrigation of at least ½" is recommended.

**Turf Grown for Seed/Sod:** Do not apply to sod farms if edible crops will be planted in treated area within 1 year of the application.

#### OTHER TURF AREAS

**Roadsides (including aprons and guardrails), rights-of-way, industrial areas, railroads, fence rows and other similar non-highly managed turf areas:** Apply 3 to 4 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 1.5 fluid ounces of this product per gallon of water and spray to thoroughly wet all foliage (1 gallon covering 1,000 sq. ft.).

Applications to other 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.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container away from feed and food. 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 store near open containers of fertilizer, seed, or other pesticides.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. 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:**

[**Note to Reviewer:** The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **NOTE:** This product is available in various container types and sizes. Refer to the Net Contents for the applicable "Non-refillable" or "Refillable" designation. Follow the container handling instructions below that apply to your container type / size.

[**Note to Reviewer:** The bracketed section headers will be included when multiple container types / sizes are listed on the label.]

**[Non-refillable Containers 5 Gallons or Less:]** Non-refillable 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 incineration, or by other procedures approved by State and local authorities.

**[Non-refillable Containers Larger than 5 Gallons:]** Non-refillable 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 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. Offer container for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**[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 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. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

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

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[Nufarm Grow a better tomorrow.]  
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