

SULFOSULFURON METSULFURON METHYL	GROUP	2	HERBICIDE
DICAMBA	GROUP	4	

Southpaw™



Herbicide

A herbicide for selective postemergence control of annual and perennial sedges, grass and broadleaf weeds in Bermudagrass, Zoysiagrass, Centipedegrass, and St. Augustinegrass in institutional, commercial, industrial, sports fields, residential turfgrass and sod farms

ACTIVE INGREDIENTS:	BY WEIGHT
Sulfosulfuron.....	11.60%
Metsulfuron Methyl:	
Methyl 2-[[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]-carbonyl]amino]sulfonyl]benzoate.....	3.80%
Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisic acid)	39.80%
OTHER INGREDIENTS:	44.80%
TOTAL:	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*Dicamba: 3,6-dichloro-o-anisic acid.....33.06%

KEEP OUT OF REACH OF CHILDREN
SEE INSIDE BOOKLET FOR 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

EPA REG. NO. 228-761

Net Contents
5 Lbs.
(2.27 Kg)

Manufactured for
Nufarm Americas Inc.
11901 S. Austin Avenue
Alsip, IL 60803



Nufarm

Grow a better tomorrow

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical-resistant gloves made of any waterproof material
- shoes and socks.

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

ENGINEERING CONTROLS STATEMENT

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

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and other handlers" and have such PPE immediately available for use in an emergency, such as spill or equipment breakdown.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands thoroughly with soap and water after handling and 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.

PHYSICAL-CHEMICAL HAZARDS

DO NOT mix or allow contact with oxidizing agents. Hazardous Chemical reaction may occur.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwater or rinsate. Exposure to this product can injure or kill plants. Damage to susceptible plants can occur when soil particles are blown or washed off target onto cropland.

DO NOT apply where runoff water may flow, during periods of intense rainfall or to water saturated soils as off-target movement and injury may occur. Do not apply this product through any type of irrigation system.

Groundwater Advisory: This product has properties and characteristics associated with chemicals detected in groundwater and is known to leach through soil into groundwater under certain conditions as a result of label use. This product may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory: This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of this product from runoff water and sediment. Runoff of this product will be greatly reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Ground and Surface Waters Protection: To prevent point source contamination, do not mix or load this pesticide product within 50 feet of wells (including abandoned wells and drainage wells), sink holes, and natural or impounded lakes and reservoirs. Do not apply pesticide product within 50 feet of wells. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas as described below.

Mixing, loading, rinsing, or washing operations performed within 50 feet of a well are allowed only when conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be on or move across the pad. The pad must be self-contained to prevent surface water flow over or from the pad. The pad capacity must be maintained at 110% that of the largest pesticide container or application equipment used on the pad and have sufficient capacity to contain all product spills, equipment or container leaks, equipment wash waters,

and rainwater that may fall on the pad. The containment capacity does not apply to vehicles delivering pesticide shipments to the mixing/loading sites. States may have in effect additional requirements regarding wellhead setbacks and operational containment. Care must be taken when using this product to prevent: a) back siphoning into wells, b) spills, or c) improper disposal of excess pesticide, spray mixture or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Do not apply to impervious substrates such as paved or highly compacted surfaces in areas with high potential for ground water contamination. Ground water contamination may occur in areas where soils are permeable or coarse and ground water is near the surface. Do not apply to soils classified as sand with less than 3% organic matter and where ground water depth is shallow. To minimize the possibility of ground water contamination, carefully follow application rate recommendations as affected by soil type in the general information section of this label.

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 area. Protect the forage and habitat of non-target organisms by minimizing spray drift. For further guidance and instructions on how to minimize spray drift, refer to the Mandatory Spray Drift Management section of this label.

Windblown Soil Particles: This product has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have a high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and directions of prevailing winds, vegetative cover, site slope, rainfall, and drainage patterns. Avoid applying this product if prevailing local conditions may be expected to result in off-site movement.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the 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 in your State responsible for pesticide regulation.

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 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, shoes, socks, and chemical-resistant gloves.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to users 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 Boom Applications:

Apply with the nozzle height recommended by the manufacturer, but no more than 3 ft. above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground. For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1). For all other applications, applicators are required to use a Medium or coarser droplet size (ASABE S572.1) Do not apply when wind speeds exceed 10 mph at the application site. Do not apply during temperature inversions.

Boom-less Ground Applications:

Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications. Do not apply when wind speeds exceed 10 miles per hour at the application site. 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.

Boom-less Ground Applications

Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications

Take precautions to minimize spray drift.

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.

WINDBLOWN SOIL PARTICLES ADVISORY

This product has the potential to move off-site due to wind erosion. Soils that are subject to wind erosion usually have high silt and/or fine to very fine sand fractions and low organic matter content. Other factors which can affect the movement of windblown soil include the intensity and direction of prevailing winds, vegetative cover, site, slope, rainfall, and drainage patterns. Avoid applying this product if prevailing local conditions may be expected to result in off-site movement.

INVASIVE SPECIES MANAGEMENT

This product may be used on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (F1CMNEW). National Early Detection and Rapid Response (EDRR) System for invasive plants. Effective EDRR systems address invasions by eradicating the invader where possible, and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is recommended, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible, eliminate the invader. Consult your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response provisions and allowed treatments in your area.

WEED RESISTANCE MANAGEMENT

This product contains the active ingredients sulfosulfuron and metsulfuron-methyl which are Group 2 herbicides, and Dicamba, which is a group 4 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 2 and 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance-management strategies should be followed. To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of this product or other Group 2 and 4 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds. Users should note that each listed weed may not be controlled by multiple mechanisms of action.
- 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 crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g. higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or 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 certified crop advisors for additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact Nufarm at 855-280-6609.

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.

PRODUCT INFORMATION

This product is a postemergence, systemic herbicide with limited soil residual activity. It provides selective postemergence control of many annual and perennial sedges, grass and broadleaf weeds in well-established Bermudagrass, Zoysiagrass, Centipedegrass, and St. Augustinegrass. This product can be applied for removing weeds on residential and commercial sites, including apartment complexes, athletic fields, cemeteries, golf courses (fairways, roughs, tees), hotel properties, office complexes, parks, public areas, retail sites, storage facilities, school grounds, and sod farms.

TURFGRASS USE INSTRUCTIONS

Use on established Bermudagrass and Zoysiagrass. Apply 8 to 10 oz per acre (0.058-0.072 lb sulfosulfuron, 0.019-0.024 lb metsulfuron methyl, 0.165-0.206 lb dicamba per acre) of this product for control of the listed weeds. Do not apply more than 16 oz of product per acre (0.116 lb sulfosulfuron, 0.038 lb metsulfuron methyl, 0.33 lb dicamba per acre) per year. Some temporary stunting of growth and discoloration (yellowing) may occur after application but the turf will recover. When turfgrass growth slows due to the use of turfgrass growth regulator these symptoms may be accentuated and take longer to subside. Avoid applications to St. Augustinegrass if a frost or freezing temperatures are expected within 72 hours of application.

Use on established Centipedegrass and St. Augustinegrass. Apply 6 to 8 oz per acre (0.042-0.056 lb sulfosulfuron, 0.014- 0.019 lb metsulfuron methyl, 0.128-0.165 lb dicamba per acre) of this product for control of the listed weeds. Some temporary stunting of growth and discoloration (yellowing) may occur after application but the turf will recover. When turfgrass growth slows due to the use of turfgrass growth regulator these symptoms may be accentuated and take longer to subside. Avoid applications if a frost or freezing temperatures are expected within 72 hours of application.

Use on new cultivars or non-labeled species. Though not all turf types have been evaluated, other established warm season turf species may demonstrate tolerance to this product. Before treating additional turf types or newly released cultivars, first apply this product to a small area and evaluate 3 weeks for tolerance prior to treatment of large areas.

BROADCAST TREATMENTS

Apply when emerged weeds are actively growing. Uniformed applications are required to avoid turf injury and achieve maximum weed control. Use a minimum spray volume of 10 gallons of water per acre. Select spray nozzles and pressure that deliver at least medium sized spray droplets.

SPOT TREATMENTS

Spot Treatments are for controlling individual weeds or small areas of weeds. To make Spot Treatments, mix 2 teaspoons (see VOLUMETRIC MEASUREMENTS Table) of this product per gallon of water and add appropriate spray adjuvant. Spray weeds until wet but avoid spray solution runoff and over application. Spot treatments can cause yellowing and turfgrass growth regulation.

Hand-held sprayer applications should be calibrated to deliver 1 gallon of spray solution per 1000 sq. ft. Adjust application rate per gallon up or down if utilizing greater or less than 1 gallon of spray solution per 1000 sq. ft.

USE RESTRICTIONS

- **DO NOT** use on food or feed crops.
- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply to any body of water, including streams, irrigation water, or wells.
- **DO NOT** apply where runoff water may flow onto agricultural land, as injury to crops may result.
- **DO NOT** allow spray to drift onto adjacent crops or other desirable plants or trees as injury may occur.
- **DO NOT** apply this product to turf under stress from drought, insects, disease, or poor fertility as injury may result.
- **DO NOT** apply to turf less than 1 year old.
- **DO NOT** apply this product directly to or within 4 feet of golf course putting greens.
- **DO NOT** apply more than 2 broadcast applications totaling 16 oz of product per acre (0.116 lb sulfosulfuron, 0.38 lb metsulfuron methyl, 0.33 lb dicamba per acre), excluding spot treatments, per year.
- **DO NOT** apply more than 10 oz of this product per acre (0.072 lb sulfosulfuron, 0.024 lb metsulfuron methyl, 0.206 lb dicamba) in a single application.
- **DO NOT** apply to sod farms in Arizona.
- **DO NOT** re-treat turfgrass within 21 days of a previous application of this product.
- **DO NOT** treat irrigation ditches or water used for crop irrigation or domestic uses.
- **DO NOT** plant ornamentals such as shrubs or trees in treated areas for at least 1 year after the last application, or bedding plants for at least 2 years.
- **DO NOT** apply this product aerially.

USE PRECAUTIONS

- Use lower rates for minimum chlorosis of the turf.
- Addition of a nonionic surfactant of at least 80% active ingredient at 0.25% by volume (1 quart per 100 gallons) provides maximum performance, but may temporarily increase chlorosis of the turf.
- Allow one week between the application of this product and other control (pesticide containing) products. (This guideline can be relaxed where severe insect or disease attack requires immediate treatment).
- When overseeding with ryegrass, wait 2 months (8 weeks) after application.
- Avoid contact of this product with the roots or foliage of susceptible non-target vegetation as injury may occur. This includes areas where this product may be washed or moved into contact with roots of desirable vegetation.
- Heavy rainfall or irrigation within 2 hours after application may wash this product off the foliage and a repeat application may be required for adequate control.
- Applications to St. Augustine or Centipedegrass at temperatures above 90 Fahrenheit may cause temporary discoloration and/or growth regulation. Turf will assume normal growth and appearance with approximately 2 to 4 weeks.
- Avoid application to saturated soils and allow this product to dry for at least 2 hours prior to an irrigation cycle.
- For areas with nearby sensitive grasses on golf courses, if dew is present on the day following application, irrigate lightly (<0.2") prior to allowing foot traffic or equipment on the treated area.
- Severe injury may result from use on Bahiagrass where it is the desired turf.

When to Spray

Best results are obtained when target weeds are actively growing.

Time to Symptoms

This product is absorbed by both the roots and the foliage of plants and rapidly inhibits the growth of susceptible weeds. Susceptible weed growth stops within 24 hours of treatment even though visual symptoms are slow to develop. Susceptible weeds usually show yellowing or browning within 2 to 3 weeks. Warm, moist conditions following application will accelerate herbicidal activity. Cold, dry conditions will delay herbicidal activity. Weeds stressed by drought are less susceptible to this product.

Rainfastness

Heavy rainfall or irrigation within 2 hours after application may wash this product off of the foliage and a repeat application may be required for adequate control.

PRODUCT MIXING INSTRUCTIONS

Apply spray solutions of this product with properly maintained and calibrated equipment capable of delivering desired volumes.

MIXING INSTRUCTIONS

Thoroughly clean equipment prior to mixing spray solution. Eliminate any risk of siphoning the contents of the spray or mixing tank back into the carrier source while mixing. Use approved anti-back-siphoning devices where required by state and local restrictions.

MIXING WITH WATER

1. Fill the spray tank with $\frac{3}{4}$ of the desired final volume.
2. Add the labeled amount of this product.
3. Continue the filling process while maintaining agitation.
4. Add non-ionic surfactant near the end of the filling process.

SURFACTANTS AND ADJUVANTS

Use a non-ionic surfactant at 0.25 to 0.5% by volume (1 to 2 quarts per 100 gallons of spray solution). Use non-ionic surfactants that contain at least 80% active ingredient. Avoid the use of non-ionic surfactants that alter the pH of the spray solution below pH 5. Use of surfactants that contain methylated seed oil, or COC (crop oil concentrate) may cause temporary turf discoloration.

COLORANTS AND DYES

Colorants or marking dyes may be added to spray solutions of this product; however, they can reduce product performance. Use colorants and dyes according to the manufacturer's recommendations.

TANK MIXING INSTRUCTIONS

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Add individual components to the spray tank in the following sequence: water, water dispersible granules, water-soluble bags, dry flowables, emulsifiable concentrates, drift control additive, water-soluble liquids, non-ionic surfactants.

COMPATIBILITY

Before full-scale mixing of this product with other pesticides, fertilizers, secondary plant nutrients, adjuvants, surfactants or oils, you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying. To evaluate potential short term effects of applying the mixture, test the tank mix combination on a small area before larger-scale treatments. Wait at least 3 days for problems to become apparent.

IMPORTANT: MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS AND/OR CAUSE TURF INJURY.

SPRAYER CLEANUP

Immediately after spraying, thoroughly remove all traces of this product from mixing and spray equipment as follows:

1. Drain tank, rinse interior surface of tank, then flush tank, boom and hoses with clean water for a minimum of 5 minutes.
2. Fill the tank with clean water, then add ammonia cleaning solution. Use one gallon of ammonia (containing 3% active) per 100 gallons of water. Turn on sprayer long enough to flush through boom, hoses and nozzles. Stop spraying, but keep agitator working in the tank for 15 minutes, then drain.
3. Repeat Step 2.
4. Repeat Step 1.
5. Nozzles and screens must be removed and cleaned separately. To remove traces of cleaning solution, rinse the tank thoroughly with clean water and flush through hoses and boom.
6. Flush boom and hoses with clean water for 5 minutes just prior to using the sprayer for the first time after the application of this product.

WEEDS CONTROLLED

Sedge Control

For selective control, apply this product at 8 oz./A after weeds have reached the 2- to 5-leaf stage of growth. A sequential application may be needed 4 or more weeks after the initial treatment, if needed.

Kyllinga, false green	Nutsedge, yellow
<i>Kyllinga, gracilima</i>	<i>Cyperus esculentus</i>
Kyllinga, fragrant	Sedge, globe
<i>Kyllinga sesquiflorus</i>	<i>Cyperus croceus</i>
Kyllinga, green	Sedges, annual
<i>Kyllinga brevifolia</i>	<i>Cyperus spp.</i>
Nutsedge, purple	
<i>Cyperus rotundus</i>	

Tall Fescue (*Festuca arundinacea*) Control

Best control is obtained when this product is applied at 8 oz./A followed by a second application of 8 oz./A at 4 weeks after the initial application. If a single application is preferred, apply this product at 10 oz./A.

Dallisgrass (*Paspalum dilatatum*) Suppression in Bermudagrass

Dallisgrass is a difficult to control, rhizomatous, perennial grassy weed. For best management of dallisgrass, apply this product in the late summer or early fall while this weed is actively growing and not under heat or drought stress. Applying a systemic herbicide during this time of year promotes movement of the active ingredients down to the roots, aiding in effective management. For maximum suppression of dallisgrass, apply this product at 8 oz./acre and include the addition of a methylated seed soil (MSO) and ammonium sulfate. Reapply this same tank mixture 4 to 6 weeks after initial application. Good control may not be observed immediately after application but will become apparent the following spring when surrounding untreated dallisgrass greens up.

Virginia Buttonweed (*Diodia virginiana*) Suppression

For control of buttonweed apply this product at 8 oz./A. This application will provide control of buttonweed for 4 to 6 weeks.

For enhanced buttonweed control, tank-mix this product with a broadleaf herbicide labeled for buttonweed control in the desired warm-season turfgrass. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Annual Bluegrass (*Poa annua*) Control in Non-Overseeded Turf

Apply this product at 8 oz./A. Use the higher rate of this product for control in areas of established, dense weed infestation. Best results are obtained when weeds are in the early stage of growth and prior to tillering. If a single application is preferred, apply this product at 10 oz./A.

IN COMPLETELY DORMANT TURFGRASS ONLY, tank mixtures of this product may be used to increase the spectrum of vegetation controlled. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Annual Bluegrass (*Poa annua*) Control Prior to Overseeding Turf with Perennial Ryegrass

Apply this product at 8 oz./A to control *Poa annua* prior to overseeding warm-season turf with perennial ryegrass. Begin applications after *Poa annua* germination and allow 28 days before overseeding ryegrass.

Transition of Overseeded Perennial Ryegrass (*Lolium perenne*)

Best results are obtained by applying this product at 8 oz./A followed by a second application of 8 oz./A at 21 to 28 days after the initial application when daily temperatures are expected to exceed 80°F during the treatment period. If a single application is preferred, apply this product at 10 oz./A.

Rescuegrass (*Bromus catharticus*) Control

For selective control of rescuegrass apply this product at 8 oz./A followed by a second application of 8 oz./A at 4 to 10 weeks after the initial treatment. For best results, apply the initial treatment of this product in the fall or early winter when rescuegrass has germinated and is visible in the dormant turfgrass. Applications should be made when rescuegrass is actively growing and at the 2 to 4 leaf stage, but prior to tillering. If a single application is preferred, apply this product at 10 oz./A.

Additional Weeds Controlled

For selective control or suppression of annual or perennial weeds listed in this section, apply this product at 6 to 8 oz./A. Use the higher rate of this product for control in areas of established, dense weed infestation. If using an initial rate of application of 8 oz./A, a second application of 8 oz./A may be made 4 or more weeks after the initial treatment, if needed. Do not make more than 2 applications per year.

Alfalfa*	Cockle, white*	Henbit	Ragweed
Aster	Common groundsel	Hoarycress (whitetop)	Ragwort, tansy*
Barley, little	Common mallow*	Ivy, ground	Ryegrass, perennial
Bedstraw, catchweed	Common mullein*	Johnsongrass	Sedges, annual
Bindweed, field*	Common purslane	Knapweed, Russian*	Sedge, globe
Bittercress	Common sunflower	Knawel*	Shepherd's-purse
Bluegrass, annual	Cow cockle*	Knotweed, prostrate	Sida (southern)
Bluegrass, bulbous	Crabgrass	Kochia	Smartweed, Pennsylvania
Bluegrass, roughstalk	Creeping beggarwood	Kyllinga, false green	Sorrel, red*
Blue mustard	Crowfootgrass	Kyllinga, fragrant	Sorrel, wood
Brazil pusley*	Crown vetch	Kyllinga, green	Sowthistle, annual
Buckhorn	Dallisgrass	Kyllinga, purple	Spurge, prostrate
Buckhorn plantain	Dandelion	Lambsquarters	Spurweed
Bur buttercup	Dock, broadleaf*	Lespedeza	Starwort, little*
Burweed, lawn	Dock, curly	Lettuce, miners	Thistle, Canada
Buttercup	Dogfennel	Lettuce, prickly	Thistle, milk*
Buttercup, corn*	Dollarweed	Mustard, black*	Thistle, Russian*
Buttercup, creeping*	Falseflax, smallseed	Mustard, tansy	
Buttercup, western field*	Fescue, tall	Mustard, treacle	
Buttonweed, Virginia	Fiddleneck tarweed*	Mustard, tumble	
Carrot, wild	Filaree, redstem	Mustard, wild	
Catchfly, nightflowering*	Flixweed*	Nutsedge, purple	
Catchfly, conical*	Flaxweed, smallseed*	Nutsedge, yellow	
Celery, wild	Florida betony	Onion, wild	
Chamomile, corn*	Florida pusley	Parsley-piert	
Chamomile, false*	Foxtail	Pennycress, field	
Chicory	Garlic, wild	Pennywort, lawn	
Chickweed, common	Geranium, Carolina	Pigweed, redroot	
Chickweed, mouseear*	Goldenrod*	Pigweed, smooth	
Clover, sweet	Goosefoot, nettleleaf*	Quackgrass	
Clover, white	Hemlock, poison*	Radish, wild*	

*Not for use in California.

USE RATE CONVERSION TABLE

This Product Use Rate	oz/A	grams/A	oz/1000 sq ft	grams/1000 sq ft
Low	6	170	0.14	3.9
Medium	8	225	0.18	5.2
High	10	280	0.23	6.5

VOLUMETRIC MEASUREMENTS

This Product Use Rate	Teaspoons* per gallon mix size				
	1 gallon	2 gallons	3 gallons	4 gallons	5 gallons
6 oz/A	1.5	3	4.5	6	7.5
8 oz/A	2	4	6	8	10
10 oz/A	2.5	5	7.5	8	12.5

*Use a heaping teaspoon

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: This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable “No refillable” or “Refillable” designation. Follow the container handling instructions below that apply to your container type / size.”

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 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.

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.

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.

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.

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.

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD, INCLUDING USE, APPLICATION, HANDLING, AND DISPOSAL, TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BY WAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER, IF ANY, OR FOR ANY DAMAGES OR SUMS OF MONEY, CLAIMS OR DEMANDS WHATSOEVER, RESULTING FROM OR BY REASON OF, OR ARISING OUT OF THE MISUSE, OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE, OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, USER, OR ITS CUSTOMERS. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S OR USER'S EXCLUSIVE REMEDY, AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

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.

All other trademarks are the property of their respective owners.

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SULFOSULFURON METSULFURON METHYL	GROUP	2	HERBICIDE
DICAMBA	GROUP	4	

SOUTHPAW™

Herbicide

A herbicide for selective postemergence control of annual and perennial sedges, grass and broadleaf weeds in Bermudagrass, Zoysiagrass, Centipedegrass, and St. Augustinegrass in institutional, commercial, industrial, sports fields, residential turfgrass and sod farms

ACTIVE INGREDIENTS:	BY WEIGHT
Sulfosulfuron.....	11.60%
Metsulfuron Methyl:	
Methyl 2-[[[4-(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]-carbonyl]amino]sulfonyl]benzoate.....	3.80%
Dimethylamine Salt of Dicamba (3,6-dichloro-o-anisic acid)	39.80%
OTHER INGREDIENTS:	44.80%
TOTAL:	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*Dicamba: 3,6-dichloro-o-anisic acid..... 100.06%

KEEP OUT OF REACH OF CHILDREN
SEE INSIDE BOOKLET 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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the 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 in your State responsible for pesticide regulation.

STORAGE AND DISPOSAL

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STORAGE AND DISPOSAL *(cont.)*

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. Top 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.

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EPA REG. NO. 228-761

Net Contents
5 Lbs. (2.27 Kg)

Manufactured for
Nufarm Americas Inc.
11901 S. Austin Avenue
Alsip, IL 60803

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