

## ATTENTION:

This specimen label is provided for general information only.

- This pesticide product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of pesticides.
- Before using any pesticide, be sure the intended use is approved in your state or locality.
- Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the product label. You must have the EPA approved labeling with you at the time of use and must read and follow all label directions.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the pesticide you are using.

71016K9-6



**CERTAINTY® TURF HERBICIDE IS A SELECTIVE HERBICIDE FOR CONTROL OF ANNUAL AND PERENNIAL GRASS AND BROADLEAF WEEDS IN HIGHLY MANAGED TURF, ORNAMENTAL AND NATIVE GRASS SITES.**

### Complete Directions For Use

EPA Reg. No. 524-534

2012-1

Read the entire label before using this product.

Use only according to label instructions.

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

Read the "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION OR REPACKAGING.

## 1.0 INGREDIENTS

ACTIVE INGREDIENT:	
Sulfosulfuron .....	75.0%
OTHER INGREDIENTS: .....	25.0%
	100.0%

**Certainty Turf herbicide** is formulated as a water dispersible granule (WDG).

This product is protected by U.S. Patent No. 5,534,482. No license granted under any non U.S. Patent(s).

## 2.0 IMPORTANT PHONE NUMBERS

FOR PRODUCT INFORMATION OR ASSISTANCE  
IN USING THIS PRODUCT, CALL TOLL-FREE,  
**1-800-332-3111**

IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT,  
OR FOR MEDICAL ASSISTANCE,  
**CALL COLLECT, DAY OR NIGHT, (314) 694-4000**

## 3.0 PRECAUTIONARY STATEMENTS

### 3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

## CAUTION!

CAUSES MODERATE EYE IRRITATION.

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

### FIRST AID

<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.</li><li>• Call a poison control center or physician for treatment advice.</li></ul>
	<ul style="list-style-type: none"><li>• Have the product container or label with you when calling a poison control center or physician, or going for treatment.</li><li>• In case of an emergency involving this product, Call Collect, day or night, <b>(314) 694-4000</b>.</li><li>• This product is identified as <b>Certainty Turf Herbicide, EPA Reg. No. 524-534</b>.</li></ul>

### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:** long-sleeved shirt and long pants and shoes plus socks.

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

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## 3.2 Environmental Hazards

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is highly toxic to 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 plants in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of Federal Laws.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling.

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

### Agricultural Use Requirements

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

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
  - Shoes plus socks
  - Chemical-resistant gloves, such as nitrile rubber, neoprene rubber or polyethylene.
- For more options, follow the instructions for Category A (dry and water-based formulations) on an EPA chemical resistant category selection chart.

#### Non-Agricultural Use Requirements

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

Keep people and pets off treated areas until spray solution has dried.

## 4.0 STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

**Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. 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 if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.**

## 5.0 GENERAL INFORMATION

**Product Description:** This product is a postemergence, systemic herbicide with limited soil residual activity. It provides postemergence control of many annual and perennial sedges, grass and broadleaf weeds on highly managed turf, sod farms and native grass sites. It is a selective herbicide that can be used over the top of many perennial warm-season turfgrasses. Refer to the appropriate sections of this label for approved turf species.

**Use Sites:** This product may be used for general weed control on highly managed turf, native grasses, landscaped areas and ornamental nurseries. This product may be applied to residential and commercial sites, including apartment complexes, athletic fields, cemeteries, golf course fairways, golf course roughs, golf course tees, and other golf course areas, hotel properties, nurseries, office complexes, parks, public areas, retail sites, storage facilities, school grounds, sod and turfgrass seed farms, and other highly managed turfgrass sites. This product is not for use on golf course putting greens.

**When to Spray:** Best results are obtained when target weeds are actively growing and not disturbed by mowing for at least 2 days before and 2 days after application.

**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.

**Maximum Annual Use Rate:** The combined total of all treatments must not exceed 2.66 ounces of this product per acre per year.

**IMPORTANT: 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.**

**Susceptible plants may be injured if seeded or transplanted into treated areas unless otherwise directed in this label.**

## 6.0 MIXING

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 or local regulations.

## 6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows. Fill the spray tank with about three-fourths of the desired final volume. Add the labeled amount of this product. Continue the filling process while maintaining agitation. Add nonionic surfactant near the end of the filling process.

## 6.2 Mixing for Hand-Held Sprayers

Hand-held sprayer applications should be made at a rate of 2 gallons of spray solution per 1000 square feet.

Using the measuring scoop provided in the product packaging, follow the instructions below to prepare the proper spray solution.

#### Measuring Scoop Instructions

Using the **SMALL SCOOP** (0.16-gram scoop) provided, refer to the following table for the **Number of Scoops** of product required to achieve the **Desired Application Rate** when mixed in 2 gallons of water.

Desired Application Rate (ounces of product/acre)	Number of Scoops (small scoop)	Mix Volume (gallons of water)	Spray Rate (gallons/1000 ft <sup>2</sup> )
0.75	3	2.0	2
1.00	4	2.0	2
1.25	5	2.0	2

Using the **LARGE SCOOP** (0.8-gram scoop) provided, refer to the following table for the appropriate **Mix Volume** (gallons of water) required to achieve the **Desired Application Rate**.

Desired Application Rate (ounces of product/acre)	Number of Scoops (large scoop)	Mix Volume (gallons of water)	Spray Rate (gallons/1000 ft <sup>2</sup> )
0.75	1	3.3	2
1.00	1	2.5	2
1.25	1	2.0	2
2.0	2	2.5	2

Ensure that product is measured as a level scoop and is not rounded.

Add 2 teaspoons (1/3 fluid ounce) of nonionic surfactant per gallon of water.

## 6.3 Tank-Mixing Procedure

For tank mixtures, add individual components to the spray tank in the following sequence: water, water dispersible granules (this product), water-soluble bags, dry flowables, emulsifiable concentrates, drift control additive, water-soluble liquids, nonionic surfactants.

## 6.4 Surfactants and Adjuvants

Use a nonionic surfactant at 0.25 to 0.5 percent by volume (1 to 2 quarts per 100 gallons of spray solution). Use only nonionic surfactants that contain at least 90 percent active ingredient. **Do not use nonionic surfactants or other additives that alter the pH of the spray solution below pH 5. Use of surfactants that contain d/Limonene, methylated seed oil, or COC (crop oil concentrate) may cause temporary turf discoloration.**

## 6.5 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.

## 7.0 APPLICATION EQUIPMENT AND TECHNIQUES

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

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

## 7.1 Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The potential for spray drift is determined by the interaction of many equipment- and weather-related factors. The applicator is responsible for considering all these factors when making spraying decisions.

Avoid applying at excessive speed or pressure. Care must be taken to prevent injury to desirable plants when applying this product. Do not allow this herbicide solution to mist, drift, or splash onto desirable non-target vegetation. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or the generation of fine spray particles (mist) that are likely to drift beyond the application site.

## 7.2 Ground Broadcast Equipment

Apply this product uniformly with properly calibrated ground equipment in 10 to 50 gallons of water per acre. Select spray volumes that ensure thorough and uniform weed coverage. Use equipment that is capable of continuous agitation. Choose nozzles that provide optimum spray distribution and uniform coverage at a spray pressure appropriate for applying postemergence herbicides. Avoid streaking, skips, overlaps and spray drift during application.

## 7.3 Hand-Held Sprayers

Backpack sprayers, pump-up pressure sprayers, and other, similar types of hand-held sprayers may be used to apply this product. Apply to foliage of vegetation to be controlled at a rate of 2 gallons of spray solution per 1000 square feet. Spray coverage should be uniform and complete. Do not spray to the point of runoff.

## 7.4 Equipment Cleaning

Thoroughly clean application equipment with a 1-percent solution of ammonia (1 quart of ammonia for every 25 gallons of rinse water) promptly after using this product. Use a sufficient volume of cleaning solution to thoroughly rinse all surfaces and to flush all hoses. Rinse with water and repeat the cleaning procedure with the ammonia solution. Complete the cleaning procedure by rinsing thoroughly with clean water.

If visible residue is present in the spray tank, use a 1-percent solution of ammonia plus 0.25 percent nonionic surfactant (8 fluid ounces per 25 gallons of water) as the cleaning solution.

## 8.0 WARM-SEASON TURFGRASSES

This product generally has been shown to be safe for use on the established warm-season turfgrasses listed in this section.

- Bermudagrass (common or hybrid)
- Bahiagrass
- Buffalograss
- Centipedegrass
- Kikuyugrass
- St. Augustinegrass
- Seashore paspalum
- Zoysiagrass

Use of this product may result in temporary chlorosis, and may affect the growth pattern or delay green-up of the desirable turf. St. Augustinegrass and seashore paspalum may be more sensitive to this product than other grasses depending on environmental conditions, cultivar differences and other influential factors. For St. Augustinegrass and seashore paspalum, test this product on a small area prior to wide-scale use to determine if this product is suitable for your management and cultural practices.

## 8.1 Sedge Control

For the selective control of the weeds listed in this section, apply this product at 1.25 ounces per acre after weeds have reached the 3- to 8-leaf stage of growth. A sequential application of 1.25 ounces per acre may be made 4 or more weeks after the initial treatment, if needed.

**Kyllinga, false green**  
*Kyllinga gracillima*

**Kyllinga, fragrant**  
*Kyllinga sesquiflorus*

**Kyllinga, green**  
*Kyllinga brevifolia*

**Nutsedge, purple**  
*Cyperus rotundus*

**Nutsedge, yellow**  
*Cyperus esculentus*

**Sedge, globe**  
*Cyperus croceus*

**Sedges, annual**  
*Cyperus spp.*

## 8.2 Tall Fescue (*Festuca arundinacea*) Control

Best control of tall fescue is obtained when this product is applied at 1.25 ounces per acre followed by a second application of 1.25 ounces per acre at 21 to 28 days after the initial application. If a single application is preferred, apply this product at 2.0 ounces per acre.

## 8.3 Dallisgrass (*Paspalum dilatatum*) Suppression in Bermudagrass

The following application includes the use of MSMA. MSMA can cause injury to common and hybrid bermudagrass turf. Test the following tank-mix recommendation on a small area prior to wide-scale use to determine if this application is suitable for your bermudagrass management objectives.

For suppression of dallisgrass in bermudagrass turf, apply this product, when dallisgrass is actively growing, at a rate of 1.25 ounces of product per acre in a tank mixture with 2 pounds of MSMA per acre and 0.25 percent by volume nonionic surfactant (1 quart per 100 gallons of spray solution). Reapply this same tank mixture 2 to 4 weeks after initial application.

As an alternative program, apply MSMA at 2 pounds active ingredient per acre with 0.25 percent by volume non-ionic surfactant as an initial treatment, wait two weeks and apply 2.0 ounces of this product per acre. Wait an additional two weeks and apply MSMA again at 2 pounds active ingredient per acre with 0.25 percent by volume nonionic surfactant.

## 8.4 Virginia Buttonweed (*Diodia virginiana*) Suppression

For suppression of buttonweed apply this product at 1.25 ounces per acre. This application will provide suppression or partial 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. Read and follow the label directions, precautionary statements and all other label information of all products used in the tank mixture. Use all products according to labeled rates and apply the tank mixture according to the most restrictive precautionary statements of the products being used.

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

For selective control of annual bluegrass (*Poa annua*), apply this product at 1.25 to 2.0 ounces per acre. 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.

IN DORMANT BERMUDAGRASS ONLY, tank mixtures of this product with Roundup PROMAX<sup>®</sup>, or Roundup QuikPRO<sup>®</sup> herbicides may be used to increase the spectrum of vegetation controlled. Read and follow the label directions, precautionary statements and all other label information on Roundup PROMAX, or Roundup QuikPRO herbicides. Refer to the Roundup PROMAX, or Roundup QuikPRO product labels for approved application rates. Always apply tank mixtures according to the most restrictive precautionary statements of the products being used.

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

Apply this product at 2.0 ounces per acre to control *Poa annua* prior to overseeding warm-season turf with perennial ryegrass. Begin applications after *Poa annua* germination and 7 to 10 days prior to overseeding.

## 8.7 Transition of Overseeded Perennial Ryegrass (*Lolium perenne*)

Best results are obtained by applying this product at 1.25 ounces per acre followed by a second application of 1.25 ounces per acre 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 2.0 ounces per acre.

## 8.8 Rescuegrass (*Bromus catharticus*) Control

For selective control of rescuegrass apply this product at 0.75 ounces per acre followed by a second application of 0.75 ounces per acre 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 1.5 ounces per acre.

Where atrazine can be used in warm-season turfgrass apply this product at 1.0 ounce per acre plus atrazine at 0.5 pounds active ingredient per acre. This treatment will provide both postemergence and residual control of rescuegrass.

## 8.9 Additional Weeds Controlled

For selective control or suppression of annual or perennial weeds listed in this section, apply this product at 1.25 to 2.0 ounces per acre. Use the higher rate of this product for control in areas of established, dense weed infestation. If using an initial rate of application of 1.25 ounces per acre, a second application of 1.25 ounces per acre may be made 4 or more weeks after the initial treatment, if needed.

<b>Barley, little</b> <i>Hordeum pusillum</i>	<b>Geranium, Carolina</b> <sup>1</sup> <i>Geranium carolinianum</i>
<b>Bedstraw, catchweed</b> <i>Galium aparine</i>	<b>Henbit</b> <sup>1</sup> <i>Lamium amplexicaule</i>
<b>Bluegrass, bulbous</b> <i>Poa bulbosa</i>	<b>Ivy, ground</b> <sup>1</sup> <i>Glechoma hederacea</i>
<b>Bluegrass, roughstalk</b> <i>Poa trivialis</i>	<b>Johnsongrass</b> <i>Sorghum halepense</i>
<b>Burweed, lawn</b> <i>Soliva pterosperna</i>	<b>Mustard, wild</b> <i>Sinapis arvensis</i>
<b>Buttercup</b> <i>Ranunculus arvensis</i>	<b>Pennycress, field</b> <i>Thlaspi arvense</i>
<b>Chickweed, common</b> <i>Stellaria media</i>	<b>Pennywort, lawn</b> <sup>1</sup> (dollarweed) <i>Hydrocotyle sibthorpioides</i>
<b>Clover, white</b> <i>Trifolium repens</i>	<b>Quackgrass</b> <sup>1</sup> <i>Elytrigia repens</i>
<b>Crowfootgrass</b> <i>Dactyloctenium aegyptium</i>	<b>Ryegrass, perennial</b> <i>Lolium perenne</i>
<b>Dandelion</b> <i>Taraxacum officinale</i>	<b>Shepherd's-purse</b> <i>Capsella bursa-pastoris</i>

**Garlic, wild**  
*Allium vineale*

<sup>1</sup> Suppression or partial control only

## 9.0 ORNAMENTALS

This product is for use in woody ornamentals, perennial groundcovers and warm-season ornamental grasses.

For selective control or suppression of weeds listed in this section, apply this product at 1.25 ounces per acre. A second application of 1.25 ounces per acre may be made 4 or more weeks after the initial treatment, if needed. Best results are obtained when target weeds are actively growing and not disturbed by mowing for at least 2 days before and 2 days after application.

<b>Barley, little</b> <i>Hordeum pusillum</i>	<b>Ivy, ground</b> <sup>1</sup> <i>Glechoma hederacea</i>
<b>Bedstraw, catchweed</b> <i>Galium aparine</i>	<b>Johnsongrass</b> <i>Sorghum halepense</i>
<b>Bluegrass, annual</b> <i>Poa annua</i>	<b>Kyllinga, false green</b> <i>Kyllinga gracilima</i>
<b>Bluegrass, bulbous</b> <i>Poa bulbosa</i>	<b>Kyllinga, fragrant</b> <i>Kyllinga sesquiflorus</i>
<b>Bluegrass, roughstalk</b> <i>Poa trivialis</i>	<b>Kyllinga, green</b> <i>Kyllinga brevifolia</i>
<b>Burweed, lawn</b> <i>Soliva pterosperna</i>	<b>Mustard, wild</b> <i>Sinapis arvensis</i>
<b>Buttercup</b> <i>Ranunculus arvensis</i>	<b>Nutsedge, purple</b> <i>Cyperus rotundus</i>
<b>Chickweed, common</b> <i>Stellaria media</i>	<b>Nutsedge, yellow</b> <i>Cyperus esculentus</i>
<b>Clover, white</b> <i>Trifolium repens</i>	<b>Pennycress, field</b> <i>Thlaspi arvense</i>
<b>Crowfootgrass</b> <i>Dactyloctenium aegyptium</i>	<b>Pennywort, lawn</b> <sup>1</sup> (dollarweed) <i>Hydrocotyle sibthorpioides</i>
<b>Dandelion</b> <i>Taraxacum officinale</i>	<b>Quackgrass</b> <sup>1</sup> <i>Elytrigia repens</i>
<b>Fescue, tall</b> <i>Festuca arundinacea</i>	<b>Ryegrass, perennial</b> <i>Lolium perenne</i>
<b>Garlic, wild</b> <i>Allium vineale</i>	<b>Sedge, globe</b> <i>Cyperus croceus</i>
<b>Geranium, Carolina</b> <sup>1</sup> <i>Geranium carolinianum</i>	<b>Sedges, annual</b> <i>Cyperus spp.</i>
<b>Henbit</b> <sup>1</sup> <i>Lamium amplexicaule</i>	<b>Shepherd's-purse</b> <i>Capsella bursa-pastoris</i>

<sup>1</sup> Suppression or partial control only

### Directed-spray Applications

This product may be applied as a post-directed spray around any established warm-season ornamental grass or established woody ornamental species in landscaped areas. Avoid contact of this product with leaves of desirable plants as foliar injury, discoloration or loss of the plant may result.

### Over-the-top Applications

This product may be applied as an over-the-top application on the ornamental and groundcover species listed below:

<b>American Arborvitae</b> <i>Thuja occidentalis</i>	<b>Lilac</b> <i>Syringa vulgaris</i>
<b>Azalea, Dwarf</b> <i>Rhododendron atlanticum</i>	<b>Mockorange, Japanese</b> <i>Pittosporum tobira</i>
<b>Bougainvillea</b> <sup>2</sup> <i>Bougainvillea glabra</i>	<b>Mondo Grass</b> <i>Ophiopogon japonicus</i>
<b>Boxwood, Green Velvet</b> <i>Buxus 'Green Velvet'</i>	<b>Monkey Grass, Big Blue</b> <i>Liriope muscari 'Big Blue'</i>
<b>Euonymus, Wintercreeper</b> <i>Euonymus fortunei</i>	<b>Monkey Grass, Variegated</b> <i>Liriope muscari 'Variegata'</i>
<b>Gardenia</b> <i>Gardenia jasminoides</i>	<b>Ninebark</b> <i>Physocarpus opulifolius</i>
<b>Holly, Blue</b> <i>Ilex x meserveae</i>	<b>Oleander</b> <i>Nerium oleander</i>
<b>Holly, Chinese</b> <i>Ilex cornuta</i>	<b>Periwinkle, Greater</b> <i>Vinca major</i>
<b>Jasmine, Asiatic</b> <i>Trachelospermum asiaticum</i>	<b>Photinia, Fraser</b> <i>Photinia x fraseri</i>
<b>Jasmine, Star</b> <i>Trachelospermum jasminoides</i>	<b>Pine, Mugo</b> <i>Pinus mugo</i>
<b>Juniper, Chinese</b> <i>Juniperus chinensis</i>	<b>Rhododendron</b> <i>Rhododendron spp.</i>
<b>Juniper, Creeping</b> <i>Juniperus horizontalis</i>	<b>Rosemary</b> <i>Rosmarinus officinalis</i>
<b>Juniper, Shore</b> <i>Juniperus conferta</i>	<b>Spirea, Goldmound</b> <i>Spirea x 'Goldmound'</i>

<sup>2</sup> Single application only

### Preplant Applications

This product may be applied prior to planting the ornamental species listed below. Wait 14 days after the last application of this product before planting.

<b>Boxwood, Green Velvet</b> <i>Buxus microphylla 'Green Velvet'</i>	<b>Juniper, Creeping</b> <i>Juniperus horizontalis</i>
<b>Boxwood, Green Mountain</b> <i>Buxus 'Green Mountain'</i>	<b>Lilac, Dwarf Korean</b> <i>Syringa meyeri 'Palibin'</i>
<b>Burning Bush, Dwarf</b> <i>Euonymus alatus 'Compacta'</i>	<b>Pine, Mugo</b> <i>Pinus mugo</i>
<b>Euonymus, Wintercreeper</b> <i>Euonymus fortunei</i>	<b>Privet, Golden</b> <i>Ligustrum X vicaryi</i>
<b>Forsythia</b> <i>Forsythia x intermedia</i>	<b>Redbud</b> <i>Cercis canadensis</i>
<b>Holly, Blue</b> <i>Ilex x meserveae</i>	<b>Rhododendron</b> <i>Rhododendron spp.</i>
<b>Hydrangea, Panicked</b> <i>Hydrangea paniculata</i>	<b>Serviceberry</b> <i>Amelanchier alnifolia</i>
<b>Ivy, English</b> <i>Hedera helix</i>	<b>Viburnum, American Cranberrybush</b> <i>Viburnum trilobum</i>
<b>Jasmine, Winter</b> <i>Jasminium nudiflorum</i>	<b>Viburnum, Prague</b> <i>Viburnum x pragense</i>
<b>Juniper, Chinese</b> <i>Juniperus chinensis</i>	<b>Weigela</b> <i>Weigela florida</i>

## 10.0 NATIVE GRASSES

This product generally has been shown to be safe for use on the warm-season native grasses listed in this section.

<b>Big bluestem</b> <i>Andropogon gerardii</i>	<b>Buffalograss</b> <i>Bouteloua dactyloides</i>
<b>Little bluestem</b> <i>Schizachyrium scoparium</i>	<b>Indiangrass</b> <i>Sorghastrum nutans</i>
<b>Bushy bluestem</b> <i>Andropogon glomeratus</i>	<b>Lovegrass</b> <i>Eragrostis curvula</i>
<b>Blue grama</b> <i>Bouteloua gracilis</i>	<b>Switchgrass</b> <i>Panicum virgatum</i>

Use of this product may result in temporary chlorosis or temporarily affect the growth pattern of these native grasses. If discoloration or excessive thinning of the native

grasses occurs, skip or delay additional applications to allow the native grasses to recover to a desirable quality.

Test this product on a small area prior to wide-scale use to determine if this product is suitable for your management and cultural practices.

## 10.1 Sedge Control

For the selective control of the weeds listed in this section, apply this product at 1.25 ounces per acre after weeds have reached the 3- to 8-leaf stage of growth. A sequential application of 1.25 ounces per acre may be made 4 or more weeks after the initial treatment, if needed.

**Kyllinga, false green**  
*Kyllinga gracilima*

**Kyllinga, fragrant**  
*Kyllinga sesquiflorus*

**Kyllinga, green**  
*Kyllinga brevifolia*

**Nutsedge, purple**  
*Cyperus rotundus*

**Nutsedge, yellow**  
*Cyperus esculentus*

**Sedge, globe**  
*Cyperus croceus*

**Sedges, annual**  
*Cyperus spp.*

## 10.2 Tall Fescue (Festuca arundinacea) Control

Best control of tall fescue is obtained when this product is applied at 1.25 ounces per acre followed by a second application of 1.25 ounces per acre at 21 to 28 days after the initial application. If a single application is preferred, apply this product at 2.0 ounces per acre.

## 10.3 Additional Weeds Controlled

For selective control or suppression of annual or perennial weeds listed in this section, apply this product at 1.25 ounces per acre. A sequential application of 1.25 ounces per acre may be made 4 or more weeks after the initial treatment, if needed.

**Barley, little**  
*Hordeum pusillum*

**Bedstraw, catchweed**  
*Galium aparine*

**Bluegrass, annual<sup>1</sup>**  
*Poa annua*

**Bluegrass, roughstalk**  
*Poa trivialis*

**Bluegrass, bulbous**  
*Poa bulbosa*

**Burweed, lawn**  
*Soliva pterosperma*

**Buttercup**  
*Ranunculus arvensis*

**Buttonweed, Virginia<sup>1</sup>**  
*Diodia virginiana*

**Chickweed, common**  
*Stellaria media*

**Clover, white**  
*Trifolium repens*

**Crowfootgrass**  
*Dactyloctenium aegyptium*

**Dallisgrass<sup>1</sup>**  
*Paspalum dilatatum*

**Dandelion**  
*Taraxacum officinale*

**Garlic, wild**  
*Allium vineale*

**Geranium, Carolina<sup>1</sup>**  
*Geranium carolinianum*

**Henbit<sup>1</sup>**  
*Lamium amplexicaule*

**Ivy, ground**  
*Glechoma hederacea*

**Johnsongrass**  
*Sorghum halepense*

**Mustard, wild**  
*Sinapis arvensis*

**Pennycress, field**  
*Thlaspi arvense*

**Quackgrass<sup>1</sup>**  
*Elytrigia repens*

**Ryegrass, perennial**  
*Lolium perenne*

**Shepherd's-purse**  
*Capsella bursa-pastoris*

<sup>1</sup> Suppression or partial control only

## 11.0 LIMIT OF WARRANTY AND LIABILITY

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