

524-534

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

DEC - 4 2006

Mr. Stephen A. Adams
Monsanto Company
1300 I (Eye) Street, NW, Suite 450 East
Washington, DC 20005

Dear Mr. Adams:

Subject: Certainty Turf Herbicide (Reformat and Revise Master Label)
EPA Registration No. 524-534
Application Dated October 30, 2006

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. Update your Limit of Warranty and Liability as per Agency letter dated November 15, 2006, EPA Registration No. 524-343.
2. On page 1, Master Label Table of Contents, revise pages numbers for primary label to read "2-26".

Submit one copy of your final printed labeling incorporating the above changes, before you release the product for shipment. Amended labeling supersedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

Julie K. Walters for
James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

MASTER LABEL FOR EPA REG. NO. 524-534

Registered Brand Names:

**MON 44951 Herbicide
Certainty[®] Turf Herbicide**

Master Label Table of Contents

I.	Primary Label	2 – 30
II.	Supplemental Labels	none

**** See each label part for more detailed table of contents ****

PRODUCT LOGO

[INSERT BRAND NAME] herbicide is a selective herbicide for control of annual and perennial grass and broadleaf weeds in highly managed turf sites.

Complete Directions For Use

EPA Reg. No. 524-534

[year code]

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.

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1.0 INGREDIENTS

ACTIVE INGREDIENT:

Sulfosulfuron, 75.0%

OTHER INGREDIENTS: 25.0%
100.0%

[INSERT BRAND NAME] herbicide is formulated as a water dispersible granule (WDG).
This product is protected by U.S. Patent Nos. 5,017,212 and 5,534,482. No license granted under any non U.S. Patent(s).

2.0 IMPORTANT PHONE NUMBERS

1. FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT,
CALL TOLL-FREE,

1-800-332-3111

2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR MEDICAL
ASSISTANCE, CALL COLLECT, DAY OR NIGHT,

(314) 694-4000

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

DEC - 4 2006

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

524-534

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	
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or physician for treatment advice.
Have the product container or label with you when calling a poison control center or physician, or going for treatment. In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000 . This product is identified as [INSERT BRAND NAME], EPA Reg. No. 524-534 .	

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.

[For WPS uses only; delete this paragraph when sub-label contains only non-WPS uses] 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

[Agricultural Use Requirements box can be deleted if sub-label contains only non-WPS uses.]

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

[Non-Agricultural Use Requirements box can be delete if sub-label contains only non-WPS uses.]

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.

Optional statement for Non-WPS sub-label: Keep people and pets off treated areas until spray solution has dried.

4.0 STORAGE AND DISPOSAL

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

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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

See individual container label for DISPOSAL information.

CONTAINER DISPOSAL: Emptied container retains product residue. Observe all labeled safe guards until container is destroyed. Do not reuse container. Triple rinse container, then 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 and selected cool-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 and native grasses. This product may be applied to residential and commercial turf sites, including apartment complexes, athletic fields, cemeteries, golf course fairways, golf course roughs, golf course tees, and other golf course areas, hotel properties, office complexes, parks, public turf areas, retail sites, storage facilities, school grounds, sod and turfgrass seed farms, and other highly managed turfgrass sites. **DO NOT apply directly to or within 4 feet of golf course putting greens.**

This product may be applied at recommended rates 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.

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 recommended 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 **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 Rate¹ (ounces of product / acre)	Number of Scoops (large scoop)	Mix Volume (gallons of water)	Spray Rate (gallons/1000 ft²)
1.25	1	2.0	2
1.00	1	2.5	2
0.75	1	3.3	2
0.50	1	5.0	2
0.25	1	10.0	2

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¹ For 2.0 ounces of product per acre, use 2 Large Scoops (0.8-gram scoop) in 2.5 gallons of water and apply at 2 gallons per 1000 square feet.

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 ft²)
0.25	1	2.0	2
0.50	2	2.0	2
0.75	3	2.0	2
1.00	4	2.0	2
1.25	5	2.0	2

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

Add 2 teaspoons (1/3 fluid ounce) of non-ionic 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 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 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.

8.2 Tall Fescue 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 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 Buttonweed 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 PRO[®] or QuikPRO[®] 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 PRO or QuikPRO herbicides. Refer to the Roundup PRO or 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 Removal of Overseeded Perennial Ryegrass (Transition Aid)

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 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.

Barley, little

Hordeum pusillum

Bedstraw, catchweed

Galium aparine

Beggarweed, Florida¹

Desmodium tortuosum

Bentgrass, creeping¹

Agrostis stolonifera

Bluegrass, roughstalk

Poa trivialis

Bluegrass, bulbous

Poa bulbosa

Burweed, lawn

Soliva pterosperna

Buttercup

Ranunculus arvensis

Chamber bitter

Phyllanthus urinaria

Chickweed, common

Stellaria media

Clover, white

Trifolium repens

Crowfootgrass

Dactyloctenium aegyptium

Dandelion

- Taraxacum officinale*
Dichondra, Carolina
Dichondra carolinensis
Garlic, wild
Allium vineale
Geranium, Carolina¹
Geranium carolinianum
Henbit¹
Lamium amplexicaule
Ivy, ground¹
Glechoma hederacea
Johnsongrass
Sorghum halepense
Mustard, wild
Sinapis arvensis
Pennycress, field
Thlaspi arvense
Quackgrass¹
Elytrigia repens
Ryegrass, perennial
Lolium perenne
Shepherd's-purse
Capsella bursa-pastoris
Violet, wild¹
Viola pratensis
Woodsorrell, yellow
Oxalis stricta

¹ Suppression or partial control only

9.0 COOL-SEASON TURFGRASSES

Optional Statement: Recommendations in this section are not intended for use in residential turf.

This product is recommended for use on creeping bentgrass, Kentucky bluegrass and Kentucky bluegrass mixtures with perennial ryegrass and/or fine fescues.

On cool-season turfgrass, apply this product only when turfgrass is actively growing and mowing is required. Applications made in the fall after temperatures have decreased and regular mowing is no longer required may have an increased potential to cause turf injury and may delay spring green-up.

Use of this product may result in temporary chlorosis and discoloration, and may temporarily affect the growth pattern of the desirable turf. These symptoms generally appear 7 to 10 days after application and are typically gone within 21 to 28 days. Turf

response is more pronounced under extreme environmental conditions. Perennial ryegrass, fine fescues and creeping bentgrass are more sensitive to this product. If undesirable turf response occurs, skip or delay additional applications to allow turf to recover to a desirable quality. Over-application may result in severe turf injury, thinning or loss of turfgrass stands.

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

9.1 Weed Control in Established Creeping Bentgrass

For use in established creeping bentgrass on golf course fairways, roughs, approaches and tees.

9.1.1 Roughstalk Bluegrass (*Poa trivialis*) Control

For suppression, apply 0.25 ounce of this product per acre. For control, up to two additional applications of 0.25 ounce of this product per acre at 14- to 21-day intervals may be made. Make all applications between June 1 and September 15.

For severe *Poa trivialis* infestations, apply a single application of 0.75 ounce per acre of this product in late summer, 21 to 28 days prior to overseeding creeping bentgrass in a renovation approach. This treatment will result in temporary chlorosis and discoloration, and will temporarily affect the growth pattern of the desirable turf.

As *Poa trivialis* is controlled, bare patches may occur in the turf. Creeping bentgrass can be sodded or slit-seeded into the treated area beginning 14 days after the last application of this product in order to minimize regrowth of *Poa trivialis* and to maintain overall turf quality.

9.2 Weed Control in Kentucky Bluegrass

Weed control recommendations in this section are for use ONLY on established pure stands of Kentucky bluegrass.

9.2.1 Sedge Control

For the selective control of the weeds listed in this section, apply this product at 0.75 ounce per acre after weeds have reached the 3- to 8-leaf stage of growth. A sequential application of 0.75 ounce per acre may be made 4 or more weeks after the initial treatment, if needed.

Kyllinga, green

Kyllinga brevifolia

Nutsedge, purple

Cyperus rotundus

Nutsedge, yellow

Cyperus esculentus

Sedge, globe

Cyperus croceus

Sedges, annual*Cyperus spp.***9.2.2 Roughstalk Bluegrass (*Poa trivialis*) Control**

Apply this product at 0.5 ounce per acre followed by a second application of 0.5 ounce per acre at 21 to 28 days after the initial application. If a single application is preferred, apply this product at 0.75 ounce per acre.

As *Poa trivialis* is controlled, bare patches may occur in the turf. Kentucky bluegrass can be sodded or slit-seeded into the treated area beginning 14 days after the last application of this product in order to minimize regrowth of *Poa trivialis* and to maintain overall turf quality.

9.2.3 Tall Fescue Control

Apply this product at 0.75 ounce per acre followed by a second application of 0.75 ounce per acre at 21 to 28 days after the initial application.

9.2.4 Additional Weeds Controlled

For selective control or suppression of annual or perennial weeds listed in this section, apply this product at 0.75 ounce per acre. A sequential application of 0.75 ounce 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***Poa annua***Bluegrass, bulbous***Poa bulbosa***Burweed, lawn***Soliva pterosperna***Buttercup***Ranunculus arvensis***Chamber bitter***Phyllanthus urinaria***Chamomile, mayweed***Anthemus cotula***Chickweed, common***Stellaria media***Clover, white***Trifolium repens***Dandelion***Taraxacum officinale***Garlic, wild¹**

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- Allium vineale*
- Henbit¹**
Lamium amplexicaule
- Ivy, ground¹**
Glechoma hederacea
- Johnsongrass**
Sorghum halepense
- Mustard, tumble**
Sisymbrium altissimum
- Mustard, wild**
Sinapis arvensis
- Pennycress, field**
Thlaspi arvense
- Quackgrass¹**
Elytrigia repens
- Shepherd's-purse**
Capsella bursa-pastoris
- Violet, wild**
Viola pratincola
- Woodsorrell, yellow**
Oxalis stricta

¹ Suppression or partial control only

9.3 Weed Control in Mixed Stands of Kentucky Bluegrass

This product is recommended for use only on established stands of Kentucky bluegrass that include perennial ryegrass and/or fine fescues.

Avoid application of this product on stands with a high percentage of perennial ryegrass or fine fescue.

Perennial ryegrass and fine fescues are more sensitive to this product, therefore, as the percentage of these grasses increase in the mix, occurrence of undesirable turf response will also increase. If undesirable turf response occurs, skip or delay additional applications to allow turf to recover to a desirable quality.

Over-application may result in severe turf injury, thinning or loss of turfgrass stands.

9.3.1 Sedge Suppression

For the selective suppression of the weeds listed below apply this product at 0.5 ounce per acre after weeds have reached the 3- to 8-leaf stage of growth. A sequential application of 0.5 ounce per acre may be made 28 or more days after the initial treatment, if needed.

Optional Statement: Alternatively, for suppression of the weeds listed below, apply 0.25 ounce of this product per acre. For additional control, up to three additional applications of 0.25 ounce of this product per acre at 28-day intervals may be made, if needed.

- Nutsedge, purple**
Cyperus rotundus
- Nutsedge, yellow**
Cyperus esculentus
- Sedge, globe**
Cyperus croceus
- Sedges, annual**
Cyperus spp.

9.3.2 Roughstalk Bluegrass (*Poa trivialis*) Control

For suppression, apply 0.25 ounce of this product per acre. For control, up to two additional applications of 0.25 ounce of this product per acre at 14- to 21-day intervals may be made. Make all applications between June 1 and September 15.

For severe *Poa trivialis* infestations, apply a single application of 0.5 ounce per acre of this product in late summer, 21 to 28 days prior to overseeding turfgrass in a renovation approach.

As *Poa trivialis* is controlled, bare patches may occur in the turf. Kentucky bluegrass, perennial ryegrass or fine fescues can be sodded or slit-seeded into the treated area beginning 14 days after the last application of this product in order to minimize regrowth of *Poa trivialis* and to maintain overall turf quality.

9.3.3 Additional Weeds Controlled

For selective control or suppression of annual or perennial weeds listed in this section, apply this product at 0.5 ounce per acre. A sequential application of 0.5 ounce per acre may be made 4 or more weeks after the initial treatment, if needed.

Optional Statement: Alternatively, for suppression of the weeds listed in this section, apply 0.25 ounce of this product per acre. For additional control, up to three additional applications of 0.25 ounce of this product per acre at 28-day intervals may be made, if needed.

- Bedstraw, catchweed¹**
Galium aparine
- Bluegrass, annual¹**
Poa annua
- Bluegrass, bulbous¹**
Poa bulbosa
- Chamber bitter¹**
Phyllanthus urinaria
- Chamomile, mayweed¹**

Anthemus cotula
Chickweed, common
Stellaria media
Clover, white¹
Trifolium repens
Dandelion¹
Taraxacum officinale
Fescue, tall¹
Festuca arundinacea
Garlic, wild¹
Allium vineale
Henbit¹
Lamium amplexicaule
Ivy, ground¹
Glechoma hederacea
Johnsongrass¹
Sorghum halepense
Mustard, tumble
Sisymbrium altissimum
Mustard, wild
Sinapis arvensis
Pennycress, field
Thlaspi arvense
Quackgrass¹
Elytrigia repens
Shepherd's-purse
Capsella bursa-pastoris
Woodsorrell, yellow¹
Oxalis stricta

¹ Suppression or partial control only

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.

- Big bluestem
- Little bluestem
- Bushy bluestem
- Blue oats grama
- Buffalograss
- Indiangrass

Lovegrass

Switchgrass

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 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

Beggarweed, Florida¹
Desmodium tortuosum

Bentgrass, creeping
Agrostis stolonifera

Bluegrass, annual¹
Poa annua

Bluegrass, roughstalk
Poa trivialis

Bluegrass, bulbous
Poa bulbosa

Burweed, lawn
Soliva pterosperna

Buttercup
Ranunculus arvensis

Buttonweed¹
Diodia virginiana

Chamber bitter
Phyllanthus urinaria

Chickweed, common
Stellaria media

Clover, white
Trifolium repens

Crowfootgrass
Dactyloctenium aegyptium

Dallisgrass¹
Paspalum dilatatum

Dandelion
Taraxacum officinale

Dichondra, Carolina
Dichondra carolinensis

Garlic, wild
Allium vineale

Geranium, Carolina¹
Geranium carolinianum

Henbit¹
Lamium amplexicaule

Ivy, ground
Glechoma hederacea

Johnsongrass
Sorghum halepense

Mustard, wild
Sinapis arvensis

Pennycress, field

Thlaspi arvense
Quackgrass¹
Elytrigia repens
Ryegrass, perennial
Lolium perenne
Shepherd's-purse
Capsella bursa-pastoris
Violet, wild¹
Viola pratensis
Woodsorrell, yellow
Oxalis stricta

¹ Suppression or partial control only

[Optional Section]

11.0 WEEDS CONTROLLED

Barley, little
Hordeum pusillum
Barley, volunteer
Hordeum vulgare
Bedstraw, catchweed
Galium aparine
Beggarweed, Florida¹
Desmodium tortuosum
Bentgrass, creeping
Agrostis stolonifera
Bluegrass, annual
Poa annua
Bluegrass, roughstalk
Poa trivialis
Bluegrass, bulbous
Poa bulbosa
Burweed, lawn
Soliva pterosperma
Buttercup
Ranunculus arvensis
Buttonweed¹
Diodia virginiana
Chamber bitter
Phyllanthus urinaria
Chamomile, mayweed
Anthemus cotula
Chickweed, common

Stellaria media
Clover, white
Trifolium repens
Crowfootgrass
Dactyloctenium aegyptium
Dallisgrass¹
Paspalum dilatatum
Dandelion
Taraxacum officinale
Dichondra, Carolina
Dichondra carolinensis
Fescue, tall
Festuca arundinacea
Garlic, wild
Allium vineale
Geranium, Carolina
Geranium carolinianum
Henbit¹
Lamium amplexicaule
Ivy, ground
Glechoma hederacea
Johnsongrass
Sorghum halepense
Kyllinga, false green
Kyllinga gracilima
Kyllinga, fragrant
Kyllinga sesquiflorus
Kyllinga, green
Kyllinga brevifolia
Mustard, tumble
Sisymbrium altissimum
Mustard, wild
Sinapis arvensis
Nutsedge, purple
Cyperus rotundus
Nutsedge, yellow
Cyperus esculentus
Pennycress, field
Thlaspi arvense
Pennywort, lawn¹
Hydrocotyle sibthorpioides
Quackgrass¹
Elytrigia repens

- Ryegrass, perennial**
Lolium perenne
 - Sedge, globe**
Cyperus croceus
 - Sedges, annual**
Cyperus spp.
 - Shepherd's-purse**
Capsella bursa-pastoris
 - Violet, wild**
Viola pratincola
 - Woodsorrell, yellow**
Oxalis stricta
- ¹ Suppression or partial control only

12.0 LIMIT OF WARRANTY AND LIABILITY

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