

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.
- Although this label may appear similar to the label on a product you are now using, it has important differences. 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.

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CERTAINTY® TURF 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

2005-3

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%

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 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.

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	<ul style="list-style-type: none">• 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 eye.• Call a poison control center or physician for treatment advice.
<ul style="list-style-type: none">• 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 Certainty Turf herbicide, 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.

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, 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.

CONTAINER DISPOSAL: Emptied container retains product residue. Observe all labeled safeguards 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 preemergence and postemergence systemic herbicide. It controls many annual and perennial sedges, grass and broadleaf weeds on sod farms, highly managed turf and native grasses sites. It is a selective herbicide and can be used over-the-top of many warm-season perennial turf grasses, including: bermudagrass, St. Augustinegrass, zoysiagrass, centipedegrass and kikuyugrass. Certainty Turf herbicide can be used in creeping bentgrass turf to control *Poa trivialis*. Refer to the appropriate sections of this label for approved turf species. It can also be used to control johnsongrass in the following native grasses: big bluestem, bushy bluestem, little bluestem, buffalograss, indiangrass, blue oats grama, side oats grama, lovegrass and switchgrass. It is formulated as a water dispersible granule (WDG).

Time to Symptoms: Certainty Turf herbicide is absorbed by both the roots and the foliage of plants, rapidly inhibiting the growth of susceptible weeds. By 2 to 3 weeks after application to weeds, leaf growth slows and the growing points subsequently die. Warm and moist conditions following application will accelerate herbicidal activity. Cold, dry conditions will delay herbicidal activity. Weeds stressed by drought are less susceptible to Certainty Turf herbicide.

Rainfastness: Heavy rainfall soon after application (less than 2 hours) may wash this product off of the foliage and a repeat application may be required for adequate control.

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

IMPORTANT: Do not allow this product to contact roots or foliage of desirable vegetation, areas where roots of desirable vegetation may extend, or areas where this product may be washed or moved into contact with roots of desirable vegetation.

Desirable plants may be injured if planted into treated areas.

Do not use on feed or food crops.

ATTENTION

AVOID DRIFT. Care must be used when applying this product to prevent injury to desirable plants and crops. Do not allow the herbicide solution to mist, drift, or splash onto desirable vegetation or soil areas where sensitive crops will be planted since minute quantities of this product can cause severe damage or destruction to plants on which treatment was not intended. 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 fine particles (mist) which are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.** Drift control agent additives should be used for ground broadcast applications. When a drift control additive is used, read and carefully observe the precautionary statements and all other information appearing on the additive label.

6.0 MIXING

Thoroughly clean equipment prior to mixing spray solution.

6.1 Mixing with Water

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the spray tank to about three-fourths of the desired volume. Add the recommended amount of this product. Complete the filling process while maintaining agitation. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. Add nonionic surfactant near the end of the filling process where required.

6.2 Tank Mixing Procedure

For tank mixtures, add individual formulations to the spray tank in the following sequence: water, water soluble bags, dry flowables, emulsifiable concentrates, drift control additive, water soluble liquids, followed by nonionic surfactants.

6.3 Surfactants and Adjuvants

Use a nonionic surfactant at 0.25 percent by volume (1 quart per 100 gallons of spray solution) where specified in SITE AND USE RECOMMENDATIONS. Use only nonionic surfactants which 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.**

6.4 Colorants and Dyes

Agriculturally-approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at higher rates or dilution. Use colorants or dyes according to the manufacturer's recommendations.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

SPRAY DRIFT MANAGEMENT

AVOID DRIFT. CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

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

Do not apply product through any type of irrigation system.

Apply these spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.

Do not allow the herbicide solution to mist, drift, or splash onto desirable vegetation or soil areas where sensitive crops will be planted since minute quantities of this product can cause severe damage or destruction to plants on which treatment was not intended.

7.1 Ground Broadcast Equipment

Apply Certainty Turf herbicide 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 which is capable of continuous agitation. Choose nozzles which provide optimum spray distribution and uniform coverage at the appropriate spray pressure. Avoid streaking, skips, overlaps and spray drift during applications.

7.2 Hand-Held and High-Volume Equipment

Hand-held spray guns, backpacks, or other similar sprayers may be used to apply this product. Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

7.3 Equipment Cleaning

Thoroughly clean application equipment immediately after using this product. Prepare a tank cleaning solution which consists of a 1 percent solution of ammonia (1 quart of ammonia for every 25 gallons of rinse water). Use sufficient cleaning solution to thoroughly rinse all surfaces and to flush all hoses. Repeat the procedure with the ammonia solution. Complete the cleaning process by rinsing with clean water.

If visible residue is present in the spray tank, a solution consisting of 1 percent ammonia plus 0.25 percent nonionic surfactant (0.25 quart per 25 gallons of water) is recommended for adequate cleansing.

8.0 SITE AND USE RECOMMENDATIONS

Certainty Turf herbicide may be used for general weed control on sod farms and in highly managed turf sites and ornamental native grasses. Certainty Turf herbicide may be applied to commercial and residential turf and other noncrop sites including: cemeteries, golf course fairways, golf course roughs, golf course tees, or other areas of a golf course (excluding greens), sod or turf seed farms, and other similar sites. **Do not apply to golf course greens or within 4 feet of the greens.**

8.1 Warm-Season Turf Grasses

8.1.a Control of Sedges and Tall Fescue

Ground Broadcast Application

For the selective control of sedges (including purple nutsedge, yellow nutsedge, *Kyllinga* spp., annual sedges) and tall fescue in common or hybrid bermudagrass, zoysiagrass, centipedegrass, St. Augustinegrass or kikuyugrass turf, apply Certainty Turf herbicide at 0.75 to 1.25 ounces per acre. A second application of 0.75 to 1.25 ounces per acre may be made 4 to 10 weeks after initial treatment, if needed. Some chlorosis or stunting of the desirable turf may occur following application. Use of a nonionic surfactant is required.

Hand-Held and High-Volume Equipment Application

Mix 0.8 gram of this product (using the measuring scoop provided) in one or two gallons of water to treat 1,000 square feet. Add 2 teaspoons (1/3 fluid ounce) of nonionic surfactant per gallon of water. Ensure the product is measured as a level scoop and is not rounded.

8.1.b Bermudagrass (Non-Overseeded - Actively Growing, Dormant or at Green-Up)

Certainty Turf herbicide may be used for control of *Poa annua* or to control or partially control other annual and perennial weeds in highly managed bermudagrass sites.

Ground Broadcast Application

Apply Certainty Turf herbicide at 0.75 to 1.25 ounces per acre.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth and are not disturbed by mowing. Use of a nonionic surfactant is required.

Fall applications for *Poa annua* control can begin as early as September 1. Time first application to just before *Poa annua* germination. Reapply Certainty Turf herbicide when *Poa annua* reappears but no more frequently than every 21 days.

Tank Mixtures

FOR USE IN DORMANT BERMUDAGRASS ONLY. Tank mixtures of this product with Roundup PRO® herbicide may be used to increase the spectrum of vegetation controlled. When tank mixing, read and carefully observe the label directions, precautionary statements and all information on the label of Roundup PRO herbicide. Any recommended rate of this product may be tank mixed with 8 fluid ounces of Roundup PRO herbicide. Refer to the Roundup PRO product label for approved application sites. Always apply tank mixtures according to the most restrictive label of the products used.

8.1.c Bermudagrass (Actively Growing, Prior to Overseeding to Perennial Ryegrass)

Certainty Turf herbicide may be used for control of *Poa annua* or to control or partially control other annual and perennial weeds in highly managed bermudagrass sites prior to overseeding of perennial ryegrass.

Ground Broadcast Application

Apply Certainty Turf herbicide at 1.5 to 2.0 ounces per acre. Use higher recommended rates of this product if there is potential that *Poa annua* has already germinated.

Fall applications for *Poa annua* control should be made 7 to 10 days prior to overseeding.

Do not use this product in the southwestern U.S. for this application.

8.2 Cool-Season Turf Grasses

8.2.a *Poa trivialis* Control in Established Creeping Bentgrass Fairways and Tees

Ground Broadcast Application

For suppression or control of *Poa trivialis* in established creeping bentgrass turf on golf course fairways and tees, apply 0.25 to 0.50 ounce per acre of this product. One to three additional applications of 0.25 ounce per acre of this product at 14- to 21-day intervals are needed for control. Make all applications between June 15 and September 1. Some chlorosis or stunting of the desirable turf may occur following application. When severe *Poa trivialis* infestations are controlled, open turf spaces may occur. If this or turf discoloration occurs, skip or delay additional applications to allow turf to close or recover to a desirable quality. Observe maximum annual dosage limits. Use of a nonionic surfactant is required.

These applications will also provide suppression or control of seedling annual bluegrass (*Poa annua*) before the tiller stage.

8.3 Native Grasses

Certainty Turf herbicide may be used postemergence to control johnsongrass, yellow nutsedge, purple nutsedge, tall fescue and other weeds listed in the "WEEDS CONTROLLED" section of this label in the following perennial native grasses: big bluestem, little bluestem, bushy bluestem, blue oats grama, side oats grama, buffalograss, indiagrass, lovegrass and switchgrass.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth and are not disturbed by mowing or other factors for 12 days prior to, or 12 days after application.

Ground Broadcast Application

Apply Certainty Turf herbicide at 0.75 to 2.0 ounces per acre. Do not exceed 2.66 ounces of this product per acre per year. Follow-up applications should be made after suitable re-growth of weeds and no sooner than 30 days after the previous application. Use of a nonionic surfactant is required.

Hand-Held and High-Volume Equipment Application

Mix 0.8 gram of this product (using the measuring scoop provided) in one or two gallons of water to treat 1,000 square feet. Add 2 teaspoons (1/3 fluid ounce) of nonionic surfactant per gallon of water. Ensure the product is measured as a level scoop and is not rounded.

9.0 WEEDS CONTROLLED

Barley, volunteer

Hordeum vulgare

Bedstraw, catchweed

Galium aparine

Bluegrass, annual

Poa annua

Bluegrass, roughstalk

Poa trivialis

Bluegrass, bulbous

Poa bulbosa

Buttercup

Ranunculus arvensis

Chamomile, mayweed

Anthemus cotula

Chickweed, common

Stellaria media

Clover, white

Trifolium repens

Green Kyllinga

Kyllinga brevifolia

Henbit

Lamium amplexicaule

Johnsongrass

Sorghum halepense

Mustard, tumble

Sisymbrium altissimum

Mustard, wild

Sinapis arvensis

Pennycress, field

Thlaspi arvense

Purple Nutsedge

Cyperus rotundus

Sedges, annual

Cyperus spp.

Shepherd's-purse

Capsella bursa-pastoris

Yellow Nutsedge

Cyperus esculentus

In case of an emergency involving this product,
Call Collect, day or night, (314) 694-4000.

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ST. LOUIS, MISSOURI, 63167 U.S.A.

Formulated in the United States Using Active Ingredient Made in Japan.

MONSANTO



10.0 LIMIT OF WARRANTY AND LIABILITY

Monsanto Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label pamphlet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

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Upon opening and using this product, buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement. If terms are not acceptable, return at once unopened.

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