



EPA Reg. No. 524-534

Selective Control of Annual and Perennial Sedge In Warm-season Turfgrass

This Fact Sheet is not a product label, but is issued to clearly describe use recommendations permitted under FIFRA Section 2(ee) as not being inconsistent with product labeling, or to highlight an approved use from the product labeling. The 2(ee) expiration date is December 31, 2007. This Fact Sheet has not been submitted to or approved by EPA. Always read and follow label directions. The applicable labeling for all products must be in the possession of the user at the time of herbicide application. It is a violation of federal law to use any registered pesticide product in a manner inconsistent with its labeling.

A Valuable Weed Management Tool

Productive and functional warm-season turfgrass requires management to maintain desired turf quality. Often, undesirable weed species invade and become established, crowding out the desired grasses and degrading turf quality. One of the most difficult weed management challenges is controlling annual and perennial sedges, particularly in irrigated golf course and highly managed residential turf sites.

This guide is intended to offer background information and useful guidelines to consider when using Certainty® turf herbicide as an aid to selectively remove or suppress established sedge weed infestations in warm-season turfgrass.

Using Certainty for Sedge Control

- Certainty may be applied to the following warm-season turfgrasses:
 - Bermudagrass (common or hybrid)
 - Bahiagrass
 - Buffalograss
 - Centipedegrass
 - Kikuyugrass
 - St. Augustinegrass
 - Seashore paspalum
 - Zoysiagrass
- 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.

Sedge Control Recommendations

- Certainty, when applied according to label directions, will control:
 - Purple nutsedge
 - Yellow nutsedge
 - False green kyllinga
 - Fragrant kyllinga
 - Green kyllinga
 - Globe sedge
 - Annual sedges
- Begin applications of Certainty when sedge populations have become objectionable. Time application to occur between regular mowings. For best results, do not mow turf for two days prior to or two days after application. This will allow the sedge to develop some leaf surface to intercept herbicide spray.
- Sedges are best controlled when treated in the 3- to 8-leaf stage of development. Large or well established sedge populations will require a second treatment.
- For best control of tuber producing sedges (yellow and purple nutsedge) make initial application before the summer solstice (on or around June 22) which is the longest day of the year. Tubers are less mature before this time and more easily controlled.

Product Use Information

- For selective control of sedges in warm-season turfgrass apply Certainty at 1.25 ounces of product per acre plus nonionic surfactant at 0.25 percent by volume (1 quart per 100 gallons of spray solution).
- A second application of 1.25 ounces of this product per acre plus nonionic surfactant at 0.25 percent by volume may be made 4 or more weeks after the initial treatment.
- When using a hand-held or backpack sprayer, mix 0.8 grams of this product (using the measuring scoop provided) in 2 gallons of water, add 4 teaspoons (2/3 ounce) of nonionic surfactant, and apply this spray solution to 1000 square feet of turfgrass.
- Avoid application of Certainty when turfgrass or sedges are under stress since turf injury and poor sedge control may result.

Refer to product label for Complete Directions for Use. Always read and follow pesticide label directions.

Certainty turf herbicide is not currently registered in New York. Check the latest registration status with your Monsanto representative prior to use.

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