

# Application Guide for Nutsedge Control



Certainty® turf herbicide is a post-emergence herbicide by Monsanto which provides:

- › Outstanding control of purple and yellow nutsedge with one application.
  - Translocates through nutsedge to attached rhizomes, nutlets and tubers.
  - 95-100% Control of emerged nutsedge plants.
- › Also controls Kyllinga species and other annual sedges, as well as 24 additional grass and broadleaf weed species. (See label for specific species).
- › Excellent safety to the following warm-season turfgrasses:
  - Bermudagrass (common or hybrid)*    *Bahiagrass*
  - Buffalograss*                                    *Kikuyugrass*
  - Zoysiagrass*                                      *Seashore Paspalum*
  - Centipedegrass*                                *St. Augustinegrass*

## Formulation

- › 75% WDG (Water Dispersible Granule)

## Packaging

- › 1.25 ounce bottle with a scoop

## Rate of Certainty Turf Herbicide and Non-Ionic Surfactant

<u>Application Method</u>	<u>Rate of Certainty Turf Herbicide</u>	<u>Rate of Non-Ionic Surfactant</u>
Broadcast	1.25 ounces/acre	0.25-0.5% (1-2 qt./100 gal. water) (90% active ingredient)
Spot-treatment (Backpack Application)	0.8 grams in two gallons of water per 1000 sq. ft.	2 teaspoons (1/3 fluid ounce) per gallon of water

## Timing

- › Apply Certainty herbicide when nutsedge is at the 3- to 8- leaf stage of growth and prior to June 21<sup>st</sup>, if possible.

## Visual Effects

- › 0-1 day after treatment: Nutsedge stops growing.
- › 10-14 days after treatment: Nutsedge begins to discolor.
- › 21-30 days after treatment: Nutsedge brown/disappeared.

## Techniques for Optimum Control and Turf Safety

- › Avoid mowing two days before or after treatment.
- › Use a non-ionic surfactant which contains at least 90% active ingredient.
- › Avoid contact with foliage of ornamentals.
- › Use spray solution within 48 hours after mixing.

# Questions and Answers

## What sites of application are labeled?

Certainty® turf herbicide may be applied to residential and commercial turf sites, including apartment complexes, athletic fields, cemeteries, 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. On golf courses, it can be used on fairways, roughs, tees, and other areas.

**Is Certainty turf herbicide labeled for use on golf course putting greens?** No. DO NOT apply directly to or within 4 feet of golf course putting greens.

**Can Certainty turf herbicide be applied to any turfgrass?** Certainty turf herbicide is labeled for use and has excellent safety to warm-season turfgrasses and native grasses. It can be used on some cool-season turfgrasses, but should be used cautiously. See product label for specific species listed.

**Can Certainty turf herbicide be applied to overseeded or new seedling turf?** Certainty turf herbicide may be used on seeded, sodded, or sprigged turfgrass that is established. Allow the turf to develop a good root system and uniform stand before application.

**Can I overseed after Certainty turf herbicide application?** Treated areas may be overseeded with annual or perennial ryegrass 7-10 days after application.

**Will Certainty turf herbicide injure nearby flowers and/or ornamentals?** When applied as labeled, Certainty turf herbicide can be applied as a post-directed spray around any established warm-season ornamental grass or established woody ornamental species in landscaped areas without injuring desirable species. Avoid spraying areas that are planted with seasonal

herbaceous flowers. At this time, applications directly over the top of ornamentals are not recommended.

**What rate of Certainty turf herbicide is recommended for yellow and purple nutsedge control in warm-season turfgrass?** For *broadcast applications* apply 1.25 ounces of Certainty turf herbicide per acre with 0.25-0.5% v/v non-ionic surfactant (1-2 quarts per 100 gallons of spray mix). For best results, apply this product after nutsedges have reached the 3-to-8 leaf stage of growth and prior to June 21st.

For *best long term control*, a sequential application may be applied at 1.25 ounces of Certainty turf herbicide per acre 4 weeks after the initial treatment. At this rate, only two applications per year may be made, with the total use rate not exceeding 2.66 ounces per acre per season.

For *spot treatment applications* using backpack or handheld sprayers, use 0.8 grams (measuring scoop is provided with the product) per 2 gallons of spray solution. Also include two teaspoons (1/3 fluid ounce) of non-ionic surfactant per gallon of water. Two gallons of spray solution will cover approximately 1000 sq. ft.

**Does Certainty turf herbicide require the addition of a surfactant?** Yes. Applicators should use two teaspoons of at least 90% active ingredient, non-ionic surfactant per gallon of solution. The Certainty turf herbicide formulation does not contain a surfactant, and a surfactant is necessary to get the active ingredient into the target weed.

**When is the best time to apply Certainty turf herbicide?** Certainty turf herbicide should be applied to nutsedge at the 3- to 8-leaf stage, when plants are young and prior to

nutlet formation by the plant. Early summer (prior to June 21st) and fall are the best times of the year to treat nutsedge.

For best results, do not apply Certainty to turf that is severely stressed by drought, disease, insect damage, or from other herbicide treatments.

**What water spray volume should I use?** Certainty turf herbicide can be applied in any water spray volume that provides good coverage on the target weed (10-50 gallons/A).

**When can I mow my turf?** For optimum results, do not mow turf for two days before to two days after a Certainty turf herbicide application.

**When can I irrigate? What about rainfall?** Best results are obtained with no rainfall or irrigation for at least 2 hours after application.

**How many times can Certainty turf herbicide be applied?** Certainty turf herbicide can be applied at the full label rate 1.25 ounces per acre up to 2 times per season.

**How quickly after a Certainty turf herbicide application will nutsedge show signs of discoloration or death?** Shortly after application, yellow and purple nutsedge will stop growing. However, symptoms from a Certainty turf herbicide treatment are slow to appear. Under optimum conditions, yellowing or discoloration of nutsedge will appear about 10-14 days after treatment. This will be followed by brown-out or drying of the leaves within 30 days.

**Who can I call if I have questions about Certainty turf herbicide?** You can call your distributor, Monsanto Account Manager, or Monsanto toll free at: 1-888-851-5220.

**Certainty**  
TURF HERBICIDE