

TURF - WEEDS CONTROL AT 0.113 OZ (3.2 GRAMS)/1000 SQ FT

General Information

PRODUCT INFORMATION

PRODUCT USES

CELSIUS WG HERBICIDE is a selective herbicide with multiple modes of action that provide a broad spectrum of weed control. CELSIUS WG HERBICIDE controls weeds after they have germinated (post) and also has some residual activity that prevents new weed germination, depending on the specific weed.

CELSIUS WG HERBICIDE is intended for foliar application by licensed commercial applicators to established turf including residential lawns, commercial lawns, golf courses, sports fields, parks, campsites, recreational areas, roadsides, school grounds, cemeteries, sod farms to control annual and perennial broadleaf weeds and grasses in certain warmseason turf types.

SYMPTOMS

Weed growth ceases within hours after application of CELSIUS WG HERBICIDE. Symptoms progress from yellowing or reddening/purpling to necrosis, resulting in control of weeds within 1-4 weeks after application, depending on the sensitivity of the weed and environmental conditions. Weed control is more rapid when soil temperatures are above 65 degrees, when soil moisture is adequate for weed growth, and when weeds are not under environmental stress (e.g. drought).

MODE OF ACTION

Two of the three active ingredients in Celsius WG HERBICIDE (thiencarbazone-methyl and iodosulfuron-methyl-sodium) inhibit acetolactate synthase (ALS). ALS is responsible for the synthesis of essential amino acids that are essential for plant growth. Inhibition of these amino acids stops weed growth. Some weed species, however, have naturally occurring biotypes that are resistant to ALS-inhibiting herbicides. Resistant weed populations may occur when ALS herbicides are used year after year. To add to the weeds controlled and provide resistance management, Celsius WG HERBICIDE also contains dicamba, a benzoic acid herbicide that acts on the same biochemical site as the natural plant auxin, indole acetic acid (IAA). Having several herbicides with different modes of action (MOA) reduces the probability that resistant biotypes to Celsius WG HERBICIDE will

develop.

TURF TOLERANCE

This product has been tested and can be used on the following types of turfgrass and their cultivars: St. Augustinegrass (Floritam, Palmetto, Bitter Blue, Common, Amerishade, Raleigh, Sapphire, Delmar, Captiva) Bermudagrass (Tifway 419, Common, Tifsport, Discovery, Celebration, Sahara) Centipedegrass (Tifblair) Zoysiagrass (Meyer, Empire, Crown, Palisades, Cavalier, Zorro, DeAnza, Zenith) Buffalograss (Legacy, Cody)

Other turfgrasses and their cultivars may be tolerant to this product. However, tolerance testing should be done prior to use. Some temporary discoloration of certain warm-season grasses may occur to turf under stress from drought, disease, extreme cold or hot weather.

Do not use this product on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky bluegrass, perennial ryegrass, or creeping bentgrass.

USE OF CELSIUS WG HERBICIDE NEAR SENSITIVE GRASSES

CELSIUS WG HERBICIDE can damage or control cool season grasses. Some use sites, including many golf courses, grow warm and cool season grasses in the same vicinity. To reduce the probability of CELSIUS WG HERBICIDE being moved from its site of application to adjacent areas containing sensitive grasses, practice the following.

- To prevent tracking from the application site onto sensitive grasses, maintain a 25 ft untreated buffer.
- Allow the leaf surface of treated turf to dry several hours prior to allowing foot traffic or equipment in the treated area adjacent to sensitive grasses.
- When there may be a risk to adjacent sensitive grasses, apply CELSIUS WG HERBICIDE when the soil is less than field capacity. Avoid applications to saturated soil.

- Allow CELSIUS WG HERBICIDE to be absorbed several hours prior to an irrigation cycle. If dew is present on the day following application, irrigate lightly (0.1-0.2 inches) prior to allowing foot traffic or equipment on the treated area.

RESISTANCE MANAGEMENT

Repeated applications of a herbicide may select for resistant weed biotypes. There is no known biotype resistance to this product. If resistance to ALS type herbicides is proven, rotate to a herbicide with an alternate mode of action. Consult a manufacturer representative for the latest information on resistance management for this product.

MOWING INSTRUCTIONS

Do not mow immediately after treating with this product or before spray has dried. After treatment, do not transfer clippings to non-target areas.

IRRIGATION

Weed control and turf tolerance is best if turf is growing well and not under stress at the time of treatment. For best results, irrigate prior to treatment if grass is under stress. After application, do not irrigate until spray has dried.

PRECAUTIONS

1. Rainfall before spray has dried may necessitate retreatment with this product or reduced weed control may result.
2. Make applications to actively growing weeds. Mature, hardened-off weeds may not be controlled. Weed control may be reduced if application is made in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.
3. Apply spray mixtures of this product within 5 days of mixing to avoid product degradation.
4. Spot treatments to St. Augustinegrass turf at temperatures above 90 degrees may cause temporary growth regulation. Turf will assume normal growth rate after mowing.

RESTRICTIONS

1. Do not apply more than a total of 7.4 oz (210 g) of product per acre (0.17 oz or 4.8 g of product per 1,000 sq ft) per year (365 days).
2. The reentry interval (REI) for sod farms is 24 hours.
3. Do not apply this product by air or through any type of irrigation system.

4. Do not apply this product to turf if a frost or freeze is expected within 48 hours of application.
5. Do not use this product on golf course greens and collars.
6. Do not apply this product on turf exhibiting injury from previous applications of other products.
7. Apply this product only to established turf unless otherwise noted on the label.
8. Some ornamentals may be sensitive to this product. Do not plant ornamentals or bedding plants in treated bare areas for at least 30 days after the last application of this product.
9. Avoid application of this product near the roots of newly planted ornamentals.
10. In order to minimize risk to sensitive areas (water bodies or non-target plants), apply by broadcast application (boom-type sprayers) only when the potential for drift to adjacent sensitive areas is minimal (e.g., when the wind is 10 mph or less and is blowing away from the sensitive area) and maintain a 25-ft buffer between the point of direct application and the closest downwind edge of adjacent sensitive areas.
11. Keep people and pets out of the area during application.
12. Do not allow people or pets to enter the treated areas until sprays have dried.
13. Do not use this product on bahiagrass, seashore paspalum or cool-season turf types, including tall fescue, fine fescue, Kentucky Bluegrass, perennial ryegrass, or creeping bentgrass.

APPLICATION

This product may be applied at three different rates depending on the weeds to be controlled. For the appropriate rate and species consult USE RATES FOR WEED CONTROL section. CELSIUS WG HERBICIDE may be applied by broadcast, zone, or spot applications.

For broadcast applications, use a minimum of 10 gallons of water per acre. For weed control in dense weed populations, control of weeds under adverse growing conditions, or control of mature weeds, the optimum spray volumes is 60 gallons per acre.

ZONE

A zone application is defined as a broadcast application made to a defined area (less than 10,000 sq ft per acre). Add the specified product rate of 0.057-0.113 oz (1.6-3.2g) to 1 gallon water. One gallon of spray solution will treat up to 1,000 sq ft.

SPOT

Spot applications are defined as directed applications made to control one or several weeds in a turfgrass situation with a backpack or hand-held sprayer. Add the specified product rate of 0.057-0.113 oz (1.6-3.2g) to 1 gallon water. For spot applications, spray to wet. Avoid over application.

WEED CONTROL INFORMATION

This product may be used to control a variety of broadleaf weeds and grasses in tolerant turf. Apply this product to susceptible weeds as listed in the Use Rates for Weed Control section. For certain weeds, a follow-up application made 4-6 weeks later may be needed if regrowth is observed. Total amount of product applied in a calendar year (365 days) must not exceed 7.4 oz (210 g) of product per acre.

BERMUDAGRASS OVERSEEDED WITH RYEGRASS

Bermudagrass may be treated with broadcast applications of CELSIUS WG HERBICIDE prior to overseeding. Allow a minimum of 14 days between broadcast application of CELSIUS WG HERBICIDE to established turf and overseeding with ryegrass. Allow a minimum of 60 days between broadcast application of CELSIUS WG HERBICIDE to bare ground or to thin turf with significant areas of bare ground. Intervals less than these may cause undesirable reductions in the stand of ryegrass. When making spot applications, allow 28 days before overseeding ryegrass. When other products are mixed with this product, follow the most restrictive application interval prior to ryegrass overseeding on each label.

SEEDING AND SPRIGGING INTERVALS

Seeded Bermudagrass, Zoysiagrass and Centipedegrass: This product may be applied to Bermudagrass up to 60 days prior to seeding without a significant reduction in stand where the soil is disturbed at planting. For newly established stands, do not apply this product for at least 4 weeks after emergence as injury may result.

Sprigged Bermudagrass: This product may be applied to sprigged Bermudagrass no sooner than 2 weeks after sprigging.

DALLISGRASS CONTROL

This product in combination with REVOLVER Herbicide (2 fl oz per gallon) and MSO at 1% v/v applied as a spot or zone treatment in late summer or early fall will suppress and/or control dallisgrass. Applications made sooner in the growing season may not be effective. Add the specified product rate of 0.085 - 0.113 oz (2.4 - 3.2 g)

to enough water to create approximately one gallon of spray solution. One gallon of spray solution will treat up to 1,000 sq ft. Make a second application if regrowth is observed 30-60 days later, but do not exceed 0.17 oz (4.8 g) of product per 1,000 sq. ft. in a calendar year.

Limitations, Restrictions, and Exceptions

WEEDS:

- Virginia buttonweed: Weeds that may need a second application of the product for control. If weeds are showing signs of recovery, make a second application 2-4 weeks after the first. Do not exceed 7.4 oz (210 g) of product per acre per year (365 days) for all applications.
- Dallisgrass: Dallisgrass is best controlled with two spot applications as described. Follow application directions for a spot application.
- Large crabgrass: Large crabgrass Large crabgrass (*Digitaria sanguinalis*) is best controlled at early growth stages. Sequential applications of CELSIUS WG HERBICIDE may be necessary.

Method

[Spot treatment](#)

[Broadcast](#)

Rates

[field rates 0](#)

[field rates 1](#)

[field rates 2](#)

[field rates 3](#)

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Restricted Entry Interval

24 hours (sod farm use only)

Timings

[N.A.](#)