

# **WARM SEASON TURFGRASSES (SPLIT APPLICATION PROGRAM) - ANNUAL SEDGE AND KYLLINGA**

## General Information

### PRODUCT INFORMATION

SPECTICLE G is a selective, pre-emergent alkylazine herbicide. SPECTICLE G provides extended residual control of many annual grasses including crabgrass, goosegrass, and annual bluegrass, as well as annual sedges, and some broadleaf weeds in turf, landscape ornamentals, non-bearing fruit and nut trees and residential plantings, as well as hardscapes.

Use SPECTICLE G on established warm season turf in areas including golf courses (roughs and fairways), residential and commercial lawns, parks, and cemeteries.

SPECTICLE G controls weeds by reducing the emergence of seedlings through inhibition of cellulose biosynthesis (CB Inhibitor). Necrosis or yellowing may be observed if the herbicide is applied to herbaceous tissue such as leaves and green stems of susceptible plants including sensitive ornamentals. SPECTICLE G does not control plants emerging from tubers, rhizomes, bulbs, corms, existing rootstocks, and woody vegetation.

SPECTICLE G needs to be activated prior to weed germination for most effective control. For maximum activity against germinating weeds, SPECTICLE G requires rainfall or irrigation prior to weed germination.

SPECTICLE G is a highly active herbicide that provides effective weed control when applied to the soil around many woody ornamentals grown in-ground. SPECTICLE G may damage sensitive plants, if granules are allowed to remain in contact with foliage. Carefully apply SPECTICLE G in strict accordance to the label. Be sure to follow all label instructions.

### PRODUCT USE RESTRICTIONS

- Do not exceed 200 lbs of SPECTICLE G per acre (4.6 lbs/1000 sq ft) in a single application for turf and ornamental applications.
- Do not exceed 400 lbs of SPECTICLE G per acre (9.2 lbs/1000 sq ft) for all applications within a 12-month period.

- Do not contaminate water intended for irrigation and domestic use.
- Do not apply using aerial application equipment.
- SPECTICLE G is not for sale, distribution, or use in Nassau county, or Suffolk county, New York.

#### DEACTIVATING SPECTICLE G

Activated charcoal has been shown to deactivate SPECTICLE G if applied within several days of an application. Application of activated charcoal within 2 weeks after an application of SPECTICLE G will not reverse phytotoxic symptoms immediately, but it will aid in recovery over time. If it should be necessary to re-sod areas treated with SPECTICLE G, remove damaged turf to a depth of at least 2 inches, cultivate the soil, and apply activated charcoal to bare ground prior to laying sod. Follow directions for the amount of charcoal to apply on the label of the activated charcoal.

#### APPLICATION INFORMATION

Apply SPECTICLE G with clean, properly calibrated drop, rotary, hand shaker, or other spreader equipment according to the manufacturer's directions. Check periodically to be certain that the equipment is working properly prior to each use. Uniform application is essential for satisfactory weed control. Avoid skips for the best weed control and overlapping application patterns to avoid turf injury.

#### IRRIGATION AND WATERING AFTER APPLICATION

SPECTICLE G will provide residual weed control when adequate moisture is present and the application is followed by rain or irrigation within 21 days and prior to weed seed germination. With dry soil, use 0.25 inch of irrigation water, and with soil at or greater than field capacity; reduce the amount of irrigation water. In either case, do not create conditions that cause visible run-off of irrigation water. Adequate rainfall following an application will negate the need for irrigation. For application to ornamentals over-the-top, irrigate within 1 hour to wash granules from the leaf surface and activate the product into the soil.

#### EQUIPMENT CLEANUP PROCEDURE

Equipment used to apply SPECTICLE G must be cleaned prior to use on other sensitive turf and ornamentals, or injury may result. Before and after using SPECTICLE G, clean all equipment on an approved rinse pad. Wear proper PPE while cleaning equipment.

## RESISTANCE MANAGEMENT

SPECTICLE G controls weeds by inhibiting cellulose biosynthesis. Cellulose is a component in the formation of plant cell walls. SPECTICLE G is classified as a Group 29 herbicide. No known resistance to SPECTICLE G exists, and there are no known instances of cross-resistance between SPECTICLE G and other classes of herbicides with other modes of action. Performance of SPECTICLE G is not affected by the presence of biotypes resistant to glyphosate, triazines, ALS inhibitors, mitotic inhibitors, growth regulators, or herbicides with other modes of action.

Prolonged use of any herbicide with the same mode of action may lead to selection of resistant weed populations and a reduction in efficacy. Rotation of herbicides with an alternate mode of action can help prevent the development and spread of resistant weed populations. If resistance to SPECTICLE G is suspected, use a herbicide with an alternate mode of action.

The decision to use any particular herbicide should be based on an IPM program and all cultural practices and other pesticides in use.

## Limitations, Restrictions, and Exceptions

### DIRECTIONS FOR USE OF SPECTICLE G ON TURF

#### USE RESTRICTIONS FOR SPECTICLE G ON TURF

- Do not apply SPECTICLE G to newly seeded turf. (Turf is defined as established at least 16 months after seeding or sprigging.)
- Do not apply to golf course greens, tees, or collars.
- Do not verticut within 1 month before or after an application of SPECTICLE G.
- Do not apply to weakened turf that requires significant fill-in or recovery or to turf that is showing significant signs of stress including winterkill, spring dead spot, transitioning ryegrass, Bermudagrass spring root decline, soil compaction, foliar and root diseases, nematodes, salt accumulation, shade, excessive foot or equipment traffic, and drought. Application of SPECTICLE G in these situations may delay turf recovery.

### USE OF SPECTICLE G IN COARSE AND SANDY SOILS

Soil conditions can affect the tolerance of turf and ornamentals to SPECTICLE G. Coarse or sandy soils may allow for downward movement of SPECTICLE G into the root zone and cause significant root damage and phytotoxicity. Coarse soils, for example, may include significant quantities of sand, gravel, decomposed granite,

and ground cinders. Prior to application of SPECTICLE G in these soils, confirm soil texture with a soil test. Turf grown in soil exceeding 80% sand or 20% gravel may be at risk. Low rate multiple applications of SPECTICLE G may reduce the risk on these soils. Refer to use rates for 'Multiple Application Program of SPECTICLE G' section of this label.

If SPECTICLE G is to be applied in these soils, evaluate tolerance of a small area of turf in SPECTICLE G treated soil for tolerance prior to a large scale application.

#### USE OF SPECTICLE G ON WEAKENED OR STRESSED TURF

SPECTICLE G controls weeds by inhibiting root development. Newly developing roots of desirable turf may be affected. Factors, both biotic and abiotic, that weaken turf include winterkill, spring dead spot, transitioning ryegrass, Bermudagrass spring root decline, soil compaction, foliar and root diseases, nematodes, salt accumulation, shade, excessive foot or equipment traffic, newly verticut turf, and drought. Application of SPECTICLE G to turf in these situations may delay turf recovery. SPECTICLE G may also be used on dormant turf. The user should assess the condition of turf prior to dormancy.

Application of SPECTICLE G to stressed turf may produce symptoms of injury including yellowing, purple discoloration, thinning, and necrosis. If injury occurs, promote recovery through optimizing fertility and other cultural practices.

#### TURF TOLERANCE

SPECTICLE G can be used on the following turf types.

Warm season turfgrasses and their cultivars

- Bermudagrass\* (*Cynodon dactylon*) (and hybrids)-Baby, Celebration, Common, Floratex, GN1, Tifsport, Tifton 10, Tifway 419, Princess, Vamont, Riviera, Yukon
- Zoysiagrass ( *Zoysia* spp.)-Cavalier, Crowne, DeAnza, El Toro, Empire, GNZ, Jamar, Meyer, Palisades, Zenith, Zeon
- Centipedegrass\* (*Eremochloa ophiuroides*)- Tifblair
- St. Augustinegrass\* ( *Stenotaphrum secundatum*)-Captiva, Floratam, Floratine, Palmetto, Raleigh
- Buffalograss (*Buchloe dactyloides*)
- Bahiagrass (*Paspalum notatum*)

\*Application of SPECTICLE G may temporarily inhibit the rooting of stolons of bermudagrass, centipedegrass, and St. Augustinegrass.

Before making a large-scale application to other cultivars, treat a small area of turf with SPECTICLE G and allow four weeks to assess acceptable turf tolerance.

SPECTICLE G may cause unacceptable injury to some turf types. Do not use on the following turf types or on turf that is a mixture containing any of these grasses, unless thinning or removal is desired.

#### PRECAUTIONS FOR USE OF SPECTICLE G NEAR SENSITIVE GRASSES

CAUTION: SPECTICLE G can cause turf injury and stand reduction to sensitive grasses listed in the Turf Tolerance section of this label.

- SPECTICLE G may affect sensitive grasses downslope from treated areas after excessive rainfall. To minimize off-target effects of SPECTICLE G on sensitive grasses, irrigate after application as directed in the IRRIGATION AND WATERING AFTER APPLICATION section of this label and follow the directions below for specific situations.
- Allow turf to dry before allowing foot traffic or equipment through treated areas near sensitive grasses to avoid tracking.

#### PRECAUTIONS AROUND GREENS AND TEES CONTAINING COOL SEASON GRASSES

- For applications of SPECTICLE G adjacent to bentgrass greens and Bermudagrass greens and tees overseeded with roughstalk bluegrass (*Poa trivialis*), perennial ryegrass (*Lolium perenne*), or other cool season grasses, follow the precautions above and provide an untreated buffer zone of at least 15 ft.
- Do not apply SPECTICLE G on uphill slopes adjacent to bentgrass or Bermudagrass greens overseeded with cool season grasses such as *Poa trivialis*.

#### PRECAUTIONS FOR BERMUDAGRASS OVERSEEDED WITH RYEGRASS

- Do not apply SPECTICLE G on annual and perennial ryegrass or on Bermudagrass overseeded with ryegrass. Provide an untreated buffer zone of at least 15 ft between overseeded Bermudagrass and treated areas.

## PRECAUTIONS FOR USE NEXT TO OTHER SENSITIVE GRASSES

- SPECTICLE G may be applied in situations where warm season grasses are adjacent to sensitive grasses such as tall fescue and perennial ryegrass. The applicator, however, must take care not to apply SPECTICLE G directly to sensitive grasses or injury may occur. Cool season grasses must be established at least 16 months prior to an application of SPECTICLE G on an adjacent warm season grass. Maintain an untreated buffer of 15 feet between sensitive grasses and treated areas.

## USE RATES, TIMINGS, AND MAXIMUM SEASONAL RATE

FOR SPECTICLE G ON TURF The desired rate of SPECTICLE G for each application and the interval between applications depends on the turfgrass being treated, the weeds to be controlled, and local conditions such as soil texture. Applications of SPECTICLE G are made in any season prior to weed germination. Depending on local conditions and weed control desired, sequential applications of SPECTICLE G may be made in a calendar year.

The initial application of SPECTICLE G must be 100-200 lbs of product per acre (2.3-4.6 lbs/1000 sq ft). Use higher rates within the rate range if weed pressure is expected to be high or when longer residual control is desired.

Factors to consider when deciding between single, split, and multiple application programs

include:

- Weeds to be controlled
- Weed pressure
- Turf tolerance
- Length of residual control desired
- Soil texture
- Other herbicides used
- Mowing height
- Turf density
- Turf health

Soil texture influences the best use rate for SPECTICLE G. Use lower rates in coarse or sandy soils. In fine soils or in soils containing high amounts of organic matter higher use rates of SPECTICLE G may be used. The table below provides guidelines for appropriate rates.

Initial Application: 200 lbs/acre (4.6 lbs/1000 sq ft)

Follow Up Application Within 45-90 days: 125-200 lbs/acre (2.9-4.6 lbs/1000 sq ft)

Split applications of SPECTICLE G can be made in a use season to extend the length of control of specific weeds, to control weeds germinating over an extended period, and to control other weeds emerging during the same or overlapping period.

Depending on the weed pest (see table below), make follow-up applications within 30-90 days after the initial application. The total amount of SPECTICLE G applied in a calendar year must not exceed 400 lbs of product per acre (9.2 lbs/1000 sq ft).

#### ANNUAL SEDGES AND ANNUAL KYLLINGA CONTROL

SPECTICLE G provides preemergence control of sedges and kyllinga emerging from seed. SPECTICLE G does not control established sedges and kyllinga (green kyllinga), or sedges emerging from tubers (nutlets) including yellow and purple nutsedge.

Method

[Broadcast](#)

Rates

[field rates 0](#)

[field rates 1](#)

[field rates 2](#)

[field rates 3](#)

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Restricted Entry Interval

12 hours

Timings

[Preemergence \(Weed\)](#)