

TURFGRASS - CLOVER, WHITE

General Information

GENERAL INFORMATION

Sapphire specialty herbicide provides postemergence control of annual and perennial broadleaf weeds in established turfgrass, such as residential lawns, golf courses, sports fields, sod farms and around commercial buildings and other commercial turfgrass areas. Susceptible weeds emerged at the time of application will be controlled. A spray volume of 20 gallons per acre (gpa) or more and uniform coverage are required for optimum performance. Sapphire is rainfast within one hour after application and has soil residual herbicidal activity dependent upon weed species, soil type, soil moisture (rainfall or irrigation after application) and the rate of application.

General Use Precautions and Restrictions

- Do not apply Sapphire to golf course putting greens or tees
- Do not allow tank mixes of Sapphire to sit overnight
- Do not apply Sapphire directly to, or otherwise permit Sapphire to come into contact with, flowers, ornamental shrubs or trees, or other desirable broadleaf plants, as serious injury may occur. Do not permit spray mists containing Sapphire to drift onto desirable broadleaf plants
- Do not collect grass clippings for use as mulch around plants
- Do not apply more than 0.5 pint of Sapphire (0.02 lb ai penoxsulam) per acre per application to perennial ryegrass and tall fescue and only if some injury can be tolerated
- Do not allow sprays of Sapphire to contact exposed suckers or exposed roots of shallow rooted trees and shrubs or injury may occur
- To minimize the potential for grass injury, additional applications should not be made within four weeks of a previous application

- Do not apply more than 2.3 pints of Sapphire (0.09 lb ai penoxsulam) per acre per annual growing season
- Tank mix a quality nonionic surfactant with all applications of Sapphire
- Use this product strictly in accordance with the drift and runoff precautions on the label in order to minimize off-site exposure
- Chemigation: Do not apply this product through any type of irrigation System.

APPLICATION DIRECTIONS

Standard Volume Broadcast Application

Apply in a spray volume of 20 gpa or more (0.5 gallons or more per 1000 sq ft). Use a higher application volume when complete and uniform application must be ensured, i.e., when Sapphire is tank mixed with foliar fertilizers. If required, spray volume up to 200 gpa may be used.

Low Volume Application

Apply in a spray volume of 5 to 20 gpa (0.08 to 0.5 gallons per 1000 sq ft). Use low pressure and application equipment capable of delivering a uniform spray droplet. To improve spray coverage, the addition of a nonionic surfactant at a rate of 1/4 to 1/2 pint per acre is suggested. Use the higher rate of surfactant for lower rates of Sapphire and lower spray volumes.

Spot Treatments and/or Hand-Held Sprayers

Spot treatments should be applied at rates equivalent to broadcast applications.

Hand-Held Sprayers: When treating a small area, apply Sapphire with a calibrated sprayer that assures accurate, uniform spray distribution. In general, Sapphire should be mixed thoroughly with clean water and applied at 20 to 40 psi in a minimum of 1 gallon of water per 1000 sq ft.

Rates and Timing of Application

Apply Sapphire to turfgrass at the rate of 0.5 to 1.5 pint per acre as a ground broadcast treatment or spot treatment. Calibrate application equipment prior to use according to manufacturer's directions. Avoid skips or overlaps as poor weed

control or plant injury may occur.

Limitations, Restrictions, and Exceptions

TURFGRASS

1. Use no more than 1 pint of Sapphire (0.04 lb ai penoxsulam) per acre per application.
2. Use Sapphire on these species at a maximum rate of 0.5 pint (0.02 lb ai penoxsulam) per acre per application and only if some injury can be tolerated. A yellowing of turfgrass may occur within two weeks of application. The discoloration is generally gone within four weeks of treatment under adequate growing conditions. Stress to the turfgrass such as heat and drought may increase the potential for turfgrass injury. Under these conditions, more injury may be possible to perennial ryegrass and tall fescue. Use of 0.25 pint (0.01 lb ai penoxsulam) per acre may reduce potential for turfgrass injury.
3. Use no more than 1.5 pints of Sapphire (0.06 lb ai penoxsulam) per acre per application.

Weeds Controlled or Suppressed

Generally, application rates at the lower end of the rate range will be satisfactory for young, succulent growth of sensitive weed species. For less sensitive species, perennials, and under conditions where control is more difficult (plant stress conditions such as drought or extreme temperatures, dense weed stands and/or larger weeds), the higher rate within the rate range or repeat applications will be needed. Weeds growing in the absence of competition from other vegetation generally require higher rates or repeat applications to obtain satisfactory control or suppression.

Best weed control results are obtained when Sapphire is applied to small, actively growing weeds. Extreme growing conditions such as drought or near freezing temperatures prior to, at, or following time of application may reduce weed control. Broadleaf weed species germinate at different times.

Apply Sapphire to newly seeded cool season turfgrass only after the third mowing or after the turfgrass seedlings have tillered and developed an adequate secondary root system. Reseeding is not recommended for at least four weeks after application.

This product may also be applied to newly established warm season turfgrass. Delay treatments until two to four weeks after sodding, sprigging or plugging.

Rates

[field rates 0](#)

[field rates 1](#)

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Restricted Entry Interval

12 hours