

# **HORTICULTURAL APPLICATIONS - TREES AND SHRUBS - HAWTHORN**

## General Information

### GENERAL INFORMATION:

Cleary's SPECTRO may be applied with ground equipment using sufficient volume of spray to provide thorough coverage. Add required amount of SPECTRO to a partially filled tank, agitate by mechanical or hydraulic means and then add remaining required amount of water. Continuous agitation is required to keep the material in suspension. Do not tank mix with copper-containing materials or with highly alkaline pesticides such as Bordeaux mixture of lime sulfur. Do not combine SPECTRO with other pesticides, surfactants, or fertilizers, unless your prior use has shown the combination is physically compatible, effective, and noninjurious under your conditions of use. In general, add insecticide and fertilizer products last. No claim of compatibility with other pesticides is implied. Do not combine SPECTRO with Dipel 4L, Foil, Triton Ag-98, Triton B-1956, Latron B-1956 or Latron AG-98 as phytotoxicity may result from the combination when applied to some species on the label. Do not graze animals on treated turf or feed clippings to livestock or poultry.

### GENERAL PRECAUTIONS AND RESTRICTIONS

Use of the product on home lawns is prohibited. The product must not be applied within 150 ft (for air-blast) or 25 feet (for ground applications) of marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the body of water. Do not apply with fixed wing or rotary aircraft.

### APPLICATION INSTRUCTIONS

#### HAND HELD IRRIGATION

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.

2. Determine the treatment rate as indicated in the directions for use for crop and pathogen and measure the intended areas of application.
3. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
4. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is recommended for greenhouse systems.

INSTRUCTIONS FOR SPRINKLER - (OVERHEAD) IRRIGATION Observe the requirements in the System Requirements section above. Do not apply when wind speed favors drift beyond the area intended for treatment. Apply SPECTRO only through systems containing anti-siphon and check valves designed to prevent water source contamination or overflow of the mix tank and containing interlocking controls between the metering device and the water pump to insure simultaneous shut-off. Maintain a gentle continuous agitation in mix tank during mixing and application to assure a uniform suspension. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance.

Do not apply when wind speed favors drift. When system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained. In a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water. SPECTRO may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided. Check local restrictions and requirements regarding sprinkler irrigation applications, as they may vary from state to state.

Remove scale, pesticide residues, and other foreign matter from the chemical tank and entire injector system. Flush with clean water. Prepare a suspension of SPECTRO in a mix tank. Fill the tank with 1/2 to 3/4 of the desired amount of water. Start mechanical or hydraulic agitation. Slowly add the required amount of SPECTRO and then the remaining volume of water. Set sprinkler system to deliver 0.1 to 1.25 inches of water per acre. Volumes of water higher than this may reduce efficacy. Start sprinkler and then uniformly inject the suspension of SPECTRO into the irrigation water line so as to deliver the desired rate per acre. The suspension of SPECTRO should be injected with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing.

#### Limitations, Restrictions, and Exceptions

#### HORTICULTURAL APPLICATIONS

NURSERY, GREENHOUSE, LANDSCAPE, AND INTERIORSCAPE: Annual and perennial flowers, bedding plants, foliage plants, ground covers, plus deciduous and evergreen trees and shrubs.

For best results use spray mixture the same day it is prepared. Spray uniformly over the area to be treated with a properly calibrated power sprayer, apply as a full coverage spray to run-off when conditions are favorable for disease development. Refer to Table 4 and Table 5 rate and interval instructions. Application should be made to plants when both foliage and flowers are dry, or nearly dry. SPECTRO can provide both curative and protective action. Use the highest recommended rate and shortest application interval under conditions of severe disease pressure. Do not use mistblower or high pressure (greater than 400 psi) spray equipment when making applications in greenhouses. Do not use the product on plants bearing fruits and other parts/structures, which may be eaten.

#### TABLE 4:

Maximum seasonal application rates. Do not exceed the following amounts per Acre.

Ornamentals, Roses, Pachysandra, 50.6 lbs / acre; Field Grown Only

Conifers: 22.9 lbs / acre

#### TABLE 5:

Maximum individual application rates and minimum re-treatment intervals (days). Do not exceed the amounts per Acre or reduce the re-treatment interval indicated.

Ornamentals: 2.15 lbs / Acre; 7 days

Roses: 1.53 lbs / Acre; 7 days

Pachysandra: 4.31 lbs / Acre; 7 days

Conifers: 5.7 lbs / Acre; 21 days

Conifers Seed Beds: 5.7 lbs / Acre; 7 days; Seed Beds Only

Note: The following listing of plants reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test the product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on the label but found in a similar use site with a listed disease problem. Wait 5-7 days after treatment to evaluate trial results for possible phytotoxic responses. The product is not recommended for the following plants: Swedish Ivy (*Plectranthus australis*), Boston Fern (*Nephrolepis exhalta*), and Easter Cactus (*Hatiora gaertneri*).

Note: Do not apply SPECTRO to either green or variegated Pittosporium or to Schefflera more than once, as multiple applications have been demonstrated to cause phytotoxic responses.

Method

[Broadcast/Foliar Ground](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

[when both foliage and flowers are dry, or nearly dry.](#)