

TURFGRASSES - GRAY SNOW MOLD

General Information

This product must not be applied within 150 feet (for aerial and air-blast applications), or 25 feet (for ground applications) from marine/estuarine water bodies unless there is an untreated buffer area of that width between the area to be treated and the water body.

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determines the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.

Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they must be observed.

Integrated Pest Management

ECHO is an excellent disease control agent when used according to label directions for control of a broad spectrum of plant diseases. ECHO is recommended for use in programs that are compatible with the principles of Integrated Pest Management (IPM), including the use of disease-resistant crop varieties, cultural practices, pest scouting and disease forecasting systems which reduce unnecessary applications of pesticides.

Fungicide Resistance Management

ECHO is effective for strategic use in programs that attempt to minimize disease resistance to fungicides. Some other fungicides which are at risk from disease

resistance exhibit a single-site mode of fungicidal action. ECHO, with a multisite mode of action, may be used to delay or prevent the development of resistance to single-site fungicides. Consult with your federal or state Cooperative Extension Service representatives for guidance on the proper use of ECHO in programs which seek to minimize the occurrence of disease resistance to other fungicides.

Mixing, Loading and Applying

ECHO is intended to be diluted into water, then applied to crops by typical agricultural spraying techniques. Always apply ECHO in sufficient water to obtain thorough, uniform coverage of foliage and crop surfaces intended to be protected from disease. Spray volume to be used will vary with crop and amount of plant growth. Spray volume should normally range from 20 to 150 gallons per acre (200 to 1400 liters per hectare) for dilute sprays and 5 to 10 gallons per acre (50 to 100 liters per hectare) for concentrate ground sprays and aircraft applications. Both ground and aircraft methods of application are recommended unless specific directions are given for a crop. Slowly invert container several times to assure uniform mixture. Measure the required amount of ECHO and pour into the spray tank during filling. Keep agitator running when filling spray tank and during spray operations. Do not use on greenhouse-grown crops except as directed in the Ornamental Plants section of the label.

Application Rates

Dosage rates on the label indicate pounds of ECHO Ultimate per acre, unless otherwise stated. Under conditions favoring disease development, the high rate specified and shortest application interval should be used.

For each listed crop, the maximum total amount of chlorothalonil active ingredient (lbs a.i./A) which may be applied per acre of that crop (or crop group) during each growing season is given in bold print within a box beneath the crop name. For each crop use situation listed in the label, the listed maximum individual and seasonal application rates must not be exceeded and the listed minimum retreatment intervals must not be decreased.

Limitations, Restrictions, and Exceptions

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Apply in sufficient water to obtain adequate coverage (2 to 10 gallons per 1,000 square feet). Apply 5 ounces of ECHO Ultimate per 1,000 square feet of turf area (13.7 pounds per acre). Application must be made before snow cover in autumn. If snow cover is intermittent or lacking during the winter, re-apply ECHO at monthly intervals until Gray Snow Mold conditions no longer prevail. In areas where Pink Snow Mold (*Microdochium* or *Fusarium* patch) is likely to occur, apply ECHO Ultimate at 5 ounces in combination with products containing iprodione at 1.82 ounces active ingredient, per 1,000 square feet of turf area. Read and observe all label directions for products containing these active ingredients.

TURFGRASSES

Do not use on home lawns and turf sites associated with apartment buildings, daycare centers, playgrounds, recreational park athletic fields, athletic fields located on or next to schools (ie., elementary, middle and high schools), campgrounds, churches, and theme parks. Sodfarm turf treated with chlorothalonil prior to harvest must be mechanically cut, rolled and harvested. Do not use for sodfarms at application rates greater than 13 pounds of active ingredient, per acre, per year. Do not apply more than the following totals of chlorothalonil active ingredient from all registered product sources to the indicated types of turfgrass:

Golf Course Greens

Total Chlorothalonil Active Ingredient per acre per year: 73 lbs

Golf Course Tees

Total Chlorothalonil Active Ingredient per acre per year: 52 lbs

Golf Course Fairways

Total Chlorothalonil Active Ingredient per acre per year: 26 lbs

Sod Farms

Total Chlorothalonil Active Ingredient per acre per year: 13 lbs

Other Turf

Total Chlorothalonil Active Ingredient per acre per year: 26 lbs

Apply ECHO in 90 to 450 gallons of water per acre on golf course greens and tees, and 30 to 100 gallons of water per acre on fairways, lawns and other turfgrass. Apply with ground equipment only.

Begin applications when conditions favor disease development and repeat applications as long as these conditions persist. Under severe disease conditions, use the highest rate and shortest interval corresponding with the application schedule selected from the table below. DO NOT mow or irrigate after treatment until spray deposit on turfgrass is thoroughly dry. ECHO should always be used in conjunction with good turf management practices.

Method

[Broadcast/Foliar Ground](#)

Rates

[field_rates 0](#)

[field_rates 1](#)

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Restricted Entry Interval

12 hours

Timings

[Before snow cover in autumn.](#)