

FOR LAWNS, GOLF COURSES AND OTHER RECREATIONAL TURFGRASS AREAS - WHITE GRUB, ETC.

General Information

PRODUCT INFORMATION

This product may be applied for the control of white grubs and other listed pests infesting landscape and recreational turfgrass, golf courses, landscape ornamentals and interior plantscapes.

This product may be used on plants or turfgrasses that are being grown for aesthetic or recreational purposes or climatic modification in or around home lawns, commercial lawns, industrial facilities, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, interior plantscapes, ornamental gardens, parks, wildlife plantings, playgrounds, schools, day-care facilities, golf courses (tee box areas, roughs, fairways, greens, collars etc.), athletic fields, sod farms and other landscaped areas.

This product must not be applied when the soil is saturated with water because adequate distribution of the active ingredient vertically in the soil profile cannot be achieved under this condition.

This product is in GROUP 28 of the EPA's Insecticide and Acaricide Groups Based on Target Site of Action (EPA PR Notice 2001-5) and may be used in rotational resistance management programs.

Due to pest activity differences, consult your local cooperative extension service for guidance. To find your local extension agent, visit www.csrees.usda.gov.

APPLICATION EQUIPMENT

Apply this product using drop-type, rotary-type or hand-held application equipment. The application equipment must be properly calibrated according to the manufacturer's directions to ensure uniform coverage over the treated area. During application, the equipment must be checked periodically to confirm that it is working properly and that the granules are being uniformly distributed.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to products used repeatedly for control. When this occurs, the recommended dosages fail to suppress the pest population below threshold levels. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. These strategies may include incorporation of cultural and biological control practices, alternation of active classes of insecticides on succeeding generations and targeting the most susceptible life stage. Consult your local Cooperative Extension Service specialist or pest control advisor for the latest information on resistance management in your area.

RESTRICTIONS

- Not for use on plants being grown for sale or other commercial use, or for commercial seed production.
- Do not formulate this product into other end-use products.
- Do not apply this product in commercial nurseries and greenhouses.
- Do not apply more than 750 pounds (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.
- Do not apply more than 300 pounds (equivalent to 0.2 lb of active ingredient) of product per acre in a single application on sod farms.
- Wait a minimum of 7 days to retreat.
- Do not apply by air.
- The following restrictions are required to permit use of this product in the State of New York:

Golf Courses:

Greens, tee boxes: Do not apply this product within 25 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

Fairways: Do not apply this product within 50 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

All other use sites: Do not apply this product within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch)

Limitations, Restrictions, and Exceptions

APPLICATION RATES FOR LAWNS, GOLF COURSES AND OTHER RECREATIONAL TURFGRASS AREAS

Table 1 provides the application rates that will control the listed turfgrass pests. For maximum residual effectiveness or for optimal control of large pest infestations, apply this product at up to 500 pounds per acre (0.33 lb AI/A) to control any of the pests listed in Table 1. Restriction: Do not apply more than 750 pounds (equivalent to 0.5 lb of active ingredient) of product per acre per year in broadcast applications to turfgrass.

APPLICATION TIMING

White Grubs: Apply this product from early April to early September for preventative and early curative control all of the major white grub species infesting turfgrass. The need for an application may be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. The higher rate listed for white grub control in Table 1 may be required in late August or early September when less sensitive mid-instar grubs are present at the time of application. Irrigate turf immediately after application or allow rainfall to move the product into the soil.

Billbugs: Apply this product when over-wintered adult billbugs are first observed. This will usually occur in late April or early May in regions with cool-season turfgrasses. An application of this product at this time will also provide white grub control. The higher rates listed in Table 1 may be required for applications made after early May or when billbug species other than bluegrass billbug are present.

European Crane Fly: Apply this product between September and November to control European Crane Fly larvae in turfgrass. The higher rate listed in Table 1 may be required to achieve control when applications are made in November.

Turf Caterpillars: This product will provide curative caterpillar control in turfgrass. If

the area being treated is maintained at a mowing height of greater than one inch, then the higher rate listed in Table 1 may be required during periods of high pest pressure.

Method

[Broadcast](#)

Rates

[field_rates 0](#)

[field_rates 1](#)

[field_rates 2](#)

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Restricted Entry Interval

4 hours

Timings

[N.A.](#)