

# **TURFGRASSES - CONTROL OF MOLE CRICKETS AND SUPPRESSION OF CHINCHBUGS, CUTWORMS**

General Information

DIRECTIONS FOR USE

RESTRICTIONS FOR ALL USES:

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

DO NOT apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.

DO NOT apply when treatment area is water saturated. The treated area must be in such a condition that rainfall or irrigation will penetrate vertically into the soil profile.

DO NOT apply more than a total of 80 lb (0.4 lb of active ingredient) per acre per year.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area.

This product contains a Group 4A insecticide called imidacloprid. Insect biotypes with acquired or inherent tolerance to group 4A products may eventually dominate the insect population if Group 4A products are used repeatedly as the predominant method of control for targeted species. This may eventually result in partial or total loss of control of those species by this product and to other Group 4A products.

The active ingredient in this product is a member of the neonicotinoid chemical group. Avoid using a block of more than three consecutive applications of this product and/or other Group 4A products having the same or similar mode of action. Following a neonicotinoid block of treatments, Nufarm strongly encourages the

rotation to a block of applications with effective products of a different mode before using additional applications of neonicotinoid products. Using a block rotation or windowed approach, along with other IPM practices, is considered an effective use strategy for preventing or delaying an insect pest's ability to develop resistance to this class of chemistry.

Applications of this product or other Group 4A products from the neonicotinoid chemical class should not be used on crops previously treated with long-residual, soil-applied products from the neonicotinoid chemical class.

Other Group 4A, neonicotinoid products include: Actara, Assail, Calypso, Centric, Intruder, Leverage, Trimax, Admire and Platinum.

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations. Also, for more information on Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://irac-online.org/>.

## PRODUCT INFORMATION

This product is a systemic insecticide and will be translocated upward within the plant. The active ingredient in this product has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. To assure optimum effectiveness, the product must be placed where the roots of the plant can absorb the active ingredient. Irrigate modestly, but thoroughly after application, allowing no leaching and runoff from treatment area.

High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods.

**Resistance:** Some insects are known to develop resistance to Insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. Consult your Cooperative Extension Service for resistance management strategies and recommended pest management practices for your area.

**Incorporation:** Incorporation of this product can be achieved by cultivation,

irrigation, rainfall, mechanical placement or by using mechanical soil or media mixing equipment.

Woody Perennials: Onset of protection is slower than in herbaceous species. A delay of 2 or more weeks should be expected. Longer delays may be expected with larger plants. Application should therefore be made in advance of expected insect activity.

Bark Media: Media with 30% or more bark content when treated with this product may confer a shorter period of protection.

Limitations, Restrictions, and Exceptions

#### APPLICATION TO TURFGRASSES and LANDSCAPE ORNAMENTALS

Use this product for the control of listed soil inhabiting pests of turfgrass and landscaped ornamentals as directed on the use sites listed.

Use this product as a broadcast application to the soil around plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds in and around the perimeter of industrial and commercial buildings and on residential areas. Make application prior to anticipated pest infestation to maximize control. Rainfall, irrigation and mechanical incorporation after application will aid in maximizing control.

#### APPLICATION EQUIPMENT

Apply this product uniformly over the area being treated with granular application equipment. Both drop-type and rotary-type spreaders may be used to apply this product. DO NOT use spreaders that apply the material in narrow, concentrated bands. Calibrate all application equipment at the time of application to achieve the specified application rate.

Use the "SPREADER SETTINGS FOR THIS PRODUCT" table in the label as a guide in establishing an accurate rate of this product. Application rates will vary depending upon speed, equipment wear, and condition of spreader.

TURFGRASSES (Lawns)

Remarks

For control of mole crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, accompany this product with a remedial insecticide.

For suppression of chinchbugs, make application prior to the hatching of the first instar nymphs.

Consult your local State Agricultural Experiment Station, or State Extension Turf Specialists for more specific information regarding timing of application.

Irrigation or rainfall is required within 24 hours after application to move the active ingredient through the thatch.

On golf courses, irrigate treated areas following application.

#### Restrictions

DO NOT apply more than 80 lb (0.4 lb of active ingredient) per acre per year.

DO NOT mow turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

DO NOT allow runoff or puddling of irrigation water following application.

DO NOT apply this product to water-logged or saturated areas. Application of this product to water-logged or saturated areas will not allow penetration into the root zone of the plant.

DO NOT graze treated areas or use clippings from treated areas for feed or forage.

DO NOT allow people or pets onto area until pesticide is incorporated with water and the treatment area has dried.

#### Method

[Broadcast](#)

[N.A.](#)

[Broadcast](#)

[N.A.](#)

#### Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

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Restricted Entry Interval

12 hours

Exception: If this product is applied by drenching, the Worker Protection Standard, under certain circumstances allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[Mole crickets: Prior to or during the peak egg hatch period.](#)

[Chinch bugs: Prior to the hatching of the first instar nymphs.](#)