



## Insecticide

For systemic control of listed insect pests on sod farms and ornamental plants grown in greenhouses, lath- and shade-houses, containers, field nurseries (including non-bearing fruit and nut trees), and on Christmas trees.

For systemic control of listed insect pests on turfgrasses on golf courses, residential lawns, commercial grounds (office and shopping complexes, airports), parks, playgrounds, and athletic fields; and systemic control of insect pests on ornamental plants grown in residential and commercial landscapes, parks, golf courses, and interiorscapes.

### Active Ingredient:

Thiamethoxam<sup>1</sup> . . . . . 0.33%

Other Ingredients: . . . . . 99.67%

Total: . . . . . 100.00%

<sup>1</sup> CAS No. 153719-23-4

Meridian 0.33G is a granule that contains 0.05 ounces of active ingredient per pound of formulated product.

**KEEP OUT OF REACH OF CHILDREN.**

## CAUTION

See additional precautionary statements and directions for use in booklet (on bag).

EPA Reg. No. 100-961

EPA Est. 67572-GA-1

SCP 961A-L1F 1224

**40 pounds**

Net Contents

**syngenta®**

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## 1.0 FIRST AID

| FIRST AID                                                                                                                                                                               |                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>If in eyes</b>                                                                                                                                                                       | <ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul> |
| <b>If on skin or clothing</b>                                                                                                                                                           | <ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>                                                          |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment.                                                                    |                                                                                                                                                                                                                                                                                          |
| <b>HOTLINE NUMBER</b><br>For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident),<br>Call<br><b>1-800-888-8372</b> |                                                                                                                                                                                                                                                                                          |

## 2.0 PRECAUTIONARY STATEMENTS

### 2.1 Hazards to Humans and Domestic Animals

#### CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

### 2.2 Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or Viton™ ≥ 14 mils
- Shoes plus socks
- Protective eyewear

### 2.3 User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

### 2.4 Engineering Controls

When handlers use closed systems, enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

### 2.5 User Safety Recommendations

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### 2.6 Environmental Hazards

This pesticide is toxic to wildlife and highly toxic to aquatic invertebrates.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

#### 2.6.1 GROUNDWATER ADVISORY

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

#### 2.6.2 SURFACE WATER ADVISORY

This product may impact surface water quality due to spray drift and runoff of rain water. This is especially true for poorly draining soils and soils with shallow groundwater. This product is classified as having a high potential for reaching surface water via run off for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of thiamethoxam water from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

## DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

Meridian 0.33G has use sites that are within the scope of the Worker Protection Standard for agricultural practice, 40 CFR Part 170 (see **Section 6.0 Ornamental Plant Nurseries, Greenhouses, and Sod Farms**), and use sites that are outside of its scope (See **Section 7.0 Intiorscape and Landscape Ornamental Plants and Turfgrass – Non-Agricultural Use**). Refer to the following boxes containing additional guidance regarding **Agricultural Use Requirements** and **Non-Agricultural Use Requirements**.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms (including sod farms), nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.**

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks
- Protective eyewear

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms (including sod farms), nurseries, and greenhouses.

**Do not enter treated areas without protective clothing until application is complete.**

## 3.0 PRODUCT INFORMATION

Meridian 0.33G is a broad-spectrum insecticide when applied to turfgrass and soil or container/pot surface of ornamental plants. It is systemically active against certain foliar (sucking and chewing) and soil pests. Rainfall or irrigation causes the active ingredient of Meridian 0.33G to be released from the granule. Once released, it is readily absorbed by plant foliage or carried into the soil. In the soil, Meridian 0.33G will control soil pests upon contact or ingestion of the active ingredient and is also readily taken up by plant roots. The active ingredient moves upwards in the plant to the site of pest infestation. Through feeding on the plant, pests are exposed to the active ingredient in Meridian 0.33G. Feeding will stop within minutes to hours of exposure and be followed by death of the pest. The moderate persistence of Meridian 0.33G in the soil and foliage also provides long residual control of labeled pests. Meridian 0.33G is not active as an ovicide or as an insect growth regulator.

### 3.1 Use Sites

Meridian 0.33G may be applied to control the listed insect pests that infest turfgrass and ornamental plants listed on the label. Meridian 0.33G may be applied to the following:

#### 3.1.1 USES SUBJECT TO WORKER PROTECTION STANDARDS (SECTION 6)

- The following plants grown for agricultural production: ornamental plants grown in greenhouses, lath- and shade-houses, containers, field nurseries (including non-bearing fruit and nut trees), and Christmas trees.
- Sod grown on commercial sod farms

### 3.1.2 USES NOT SUBJECT TO WORKER PROTECTION STANDARDS (SECTION 7)

- Outdoor landscape ornamentals and interior plantscapes in or around residential and commercial grounds, recreational and institutional properties.
- For use on plants and turfgrasses intended for aesthetic or recreational purposes or climatic modification in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, wildlife plantings, parks, playgrounds, schools, day-care facilities, golf courses, athletic fields, and other landscaped areas. Not for use on plants or turfgrass being grown for sale or other commercial use; commercial seed production; or for research purposes.

## 3.2 Resistance Management

| THIAMETHOXAM | GROUP | 4A | INSECTICIDE |
|--------------|-------|----|-------------|
|--------------|-------|----|-------------|

For resistance management, Meridian 0.33G contains a Group 4A insecticide. Any insect population may contain individuals naturally resistant to Meridian 0.33G and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same locations. Appropriate resistance-management strategies should be followed.

Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists.

To delay insecticide resistance, take the following steps:

- Rotate the use of Meridian 0.33G or other Group 4A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local Syngenta representative, pest control advisor, retailer, or extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Syngenta at 1-866-Syngent (866-796-4368). You can also contact your pesticide distributor or university extension specialist to report resistance.

Syngenta encourages responsible product stewardship to ensure effective long-term control of the insect pests on this label.

## 4.0 APPLICATION DIRECTIONS

### 4.1 Methods of Application

Apply Meridian 0.33G as a broadcast application for control of targeted pests.

### 4.2 Application Equipment

Meridian 0.33G is active as a soil and systemic insecticide when applied to the soil or soilless media. To apply, use calibrated granular equipment that uniformly broadcasts Meridian 0.33G to the desired area.

#### 4.2.1 SPREADER SETTINGS FOR MERIDIAN 0.33G

Spreader settings are influenced by factors such as speed, equipment wear, and condition of spreader. Use the following chart as a guide in establishing accurate calibration of your spreader to properly apply Meridian 0.33G at labeled rates. Carefully calibrate application equipment prior to commercial use of this product.

| Spreader Type                                        | Speed                         | Meridian 0.33G<br>Spreader Settings |                                |
|------------------------------------------------------|-------------------------------|-------------------------------------|--------------------------------|
|                                                      | (mph)                         | 60 lb/<br>Acre                      | 80 lb/<br>Acre                 |
| Agrifab Rotary                                       | 3                             | 6 <sup>3</sup> / <sub>4</sub>       | 7 <sup>1</sup> / <sub>4</sub>  |
| Anderson's Rotary Model SR 2000                      | 3                             | 1 <sup>1</sup> / <sub>4</sub>       | J <sup>1</sup> / <sub>8</sub>  |
| Earthway Ev-N-Spred Rotary Model 2170                | 3                             | 10 <sup>1</sup> / <sub>2</sub>      | 13                             |
| Gandy Drop                                           | 3                             | 22 <sup>1</sup> / <sub>2</sub>      | 25                             |
| Lesco Commercial Plus                                | 3                             | 9                                   | 11                             |
| Lesco Drop                                           | 3                             | 23                                  | 25                             |
| Lesco Rotary                                         | 3                             | C                                   | D                              |
| Permagreen Magnum B1B Rider<br>-Side hole setting= 7 | 4                             | 9                                   | 11 <sup>1</sup> / <sub>2</sub> |
| Prizelawn BF1 Pull behind rotary model               | 3                             | L                                   | N                              |
| Prizelawn Rotary Model CBR-III                       | 3                             | J                                   | K <sup>1</sup> / <sub>3</sub>  |
| Scotts Precision Green drop                          | 3                             | 3 <sup>1</sup> / <sub>4</sub>       | 3 <sup>3</sup> / <sub>4</sub>  |
| Scotts Pro Turf Professional Drop                    | 3                             | 3                                   | 3 <sup>1</sup> / <sub>2</sub>  |
| Scotts Rotary Model SR-2000                          | 3                             | J <sup>1</sup> / <sub>2</sub>       | K <sup>1</sup> / <sub>2</sub>  |
| Spyker Rotary Model 46-22                            | 3                             | 3 <sup>1</sup> / <sub>3</sub>       | 3 <sup>1</sup> / <sub>2</sub>  |
| Vicon                                                | 4 <sup>1</sup> / <sub>4</sub> | 23                                  | 28                             |

## 4.3 Application Information

Meridian 0.33G must move to the site of pest infestation, such as in the root zone or the above-ground portion of the host plant. With irrigation or rainfall, move Meridian 0.33G into the root zone of plants or the location of soil-dwelling pests. Water in within 3 days of treatment, and optimally within 24 hours.

Maintain adequate soil moisture before and after application for optimum control and healthy plant growth. For applications to turfgrass and sod, do not mow the turf until the treated area has been irrigated or rainfall has occurred to allow for maximum and uniform uptake into the turfgrass or soil. Meridian 0.33G is readily taken up by the roots and moves upwards in the plant to feeding sites of pests. Systemic activity of Meridian 0.33G may be delayed for one or more weeks depending on plant size, rate of uptake from the soil and rate of translocation within the plant. Systemic activity in large plants may require several weeks before control of stem and foliar pests is achieved. If economic thresholds for target pests are low, or plants are historically damaged, apply Meridian 0.33G to the soil or container/pot surface before pests are evident.

For specific information about developmental stages of the target pest, associated damage, and action thresholds to properly time applications, consult with your State Cooperative Extension Service.

Repeat applications of Meridian 0.33G as needed, but no sooner than every 7 days and do not exceed a total of 80 pounds per acre per calendar year.

## 5.0 RESTRICTIONS AND PRECAUTIONS

### 5.1 Use Restrictions

- **DO NOT** exceed 80 pounds (0.265 lb ai) of product per acre per calendar year.
- **DO NOT** reapply within 7 days.
- **DO NOT** distribute Meridian 0.33G from the palm of the hand.
- **DO NOT** apply this product, by any application method, to linden, basswood, or *Tilia* species.
- Not for use in New York State except for Christmas trees and indoor greenhouse use.

### 5.2 Use Precautions

- Excessively wet or dry conditions may impact the performance of Meridian 0.33G against white grubs and mole crickets.
- Excessive water may reduce the effectiveness of Meridian 0.33G if it occurs within 7 days of application.

## 6.0 ORNAMENTAL PLANT NURSERIES, GREENHOUSES, AND SOD FARMS

### 6.1 Application to Ornamental Plants – Agricultural Production

| For non-food plants grown in greenhouses, lath- and shade-houses, containers, field nurseries (including non-bearing fruit and nut trees <sup>1</sup> ), and Christmas trees.                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Pests                                                                                                                                                                                                                                                                                                                                                     | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Dosage of Meridian 0.33G                                                                                                                      |
| Aphids<br>Fungus Gnat larvae<br>Lace Bug<br>Leaf beetles<br>Leafminers<br>Mealybugs<br>Root Aphid<br>Root Weevil larvae (including <i>Diaprepes abbreviatus</i> )<br>Sawflies<br>Soft Scales<br>Thrips -- foliar feeding (suppression)<br>Whiteflies                                                                                                      | Apply to the soil or container/pot surface preventively in situations where tolerance of insects or damage is low. Allow a minimum of one week for smaller plants and at least two weeks for large plants (typically found in nurseries, Christmas tree plantations) to translocate Meridian 0.33G to feeding sites of the target pest.<br><br>Water in within 3 days of treatment, and optimally within 24 hours.<br><br>If leaching, allow a minimum of 7 days after watering-in for maximum uptake of Meridian 0.33G by the plant's root system. | 40 - 80 lb/A<br>or<br>4.6 – 9.0 lb/5,000 sq ft<br><br>Use the higher rate when pest pressures are high or longer residual control is desired. |
| <b>Larvae (white grubs) of:</b><br><br>Asiatic garden beetle ( <i>Maladera castanea</i> )<br>European chafer ( <i>Rhizotrogus majalis</i> )<br>Japanese beetle ( <i>Popillia japonica</i> )<br>May or June beetle ( <i>Phyllophaga</i> species)<br>Oriental beetle ( <i>Exomala orientalis</i> )<br>Root Weevil (including <i>Diaprepes abbreviatus</i> ) | Apply up to 45 days before the historical peak of adult flight to 2 <sup>nd</sup> instar grub of the species being targeted.<br><br>For optimum control, treat from peak flight to peak egg hatch.<br><br>Water in within 3 days of treatment, and optimally within 24 hours.<br><br>If leaching, wait a minimum of 7 days after water-in for maximum uptake of Meridian 0.33G by the plant's root system.                                                                                                                                          | 60 - 80 lb/A<br>or<br>7 – 9.0 lb/5,000 sq ft<br><br>Use the higher rate when pest pressures are high or longer residual control is desired.   |
| <b>USE RESTRICTIONS</b>                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.<br>2) <b>Maximum Annual Rate:</b> 80 lb product (0.265 lb ai) per acre per calendar year<br>3) <b>DO NOT</b> reapply within 7 days.                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                               |

<sup>1</sup>Non-bearing fruit and nut trees are trees that will not bear edible fruit or nuts for one year after application.

## 6.2 Application to Sod Farms – Agricultural Production

| Turfgrass* sod produced on commercial sod farms.                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pests                                                                                                                                                                                                                                                                                                                                          | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Dosage of Meridian 0.33G                                                                                                                                                                                                       |
| <b>Larvae (grubs) of:</b><br><br><i>Aphodius</i> species<br>Asiatic garden beetle<br>Billbugs ( <i>Sphenophorus</i> species)<br>Black turfgrass ataenius<br>European chafer<br>Green June beetle<br>Japanese beetle<br>May or June beetle ( <i>Phyllophaga</i> species)<br>Northern masked chafer<br>Oriental beetle<br>Southern masked chafer | To help prevent white grubs, apply up to 45 days before the historical peak of adult flight for the targeted species. Irrigate within seven (7) days of application to move Meridian 0.33G into the root zone where grubs feed.<br><br>To control white grubs, apply from egg hatch to 2 <sup>nd</sup> instar (grubs less than half their full size). For optimum white grub control, apply from peak adult flight through peak egg hatch of the primary species being targeted. Irrigate within one (1) day of application to move Meridian 0.33G into the root zone where grubs feed. | 7 - 9 lb/5,000 sq ft<br>or<br>60 - 80 lb/A (1.5 to 2 bags/A)<br><br>Use the higher rate when pest pressures are high or longer residual control is desired.<br><br><b>See Section 4.2.1</b> for spreader calibrations settings |
| <b>Craneflies</b> ( <i>Tipula</i> species)                                                                                                                                                                                                                                                                                                     | For optimum control, apply at oviposition (egg lay)<br><br>Water in within 3 days of treatment, and optimally within 24 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                |
| <b>Mole crickets</b> (suppression**) ( <i>Scapteriscus</i> species)                                                                                                                                                                                                                                                                            | Apply early in the development of the younger stages when this insect pest is more susceptible (from first to peak egg hatch of the generation being targeted).<br><br>Water in within 3 days of treatment, and optimally within 24 hours.<br><br>When populations are high and/or the insects are near the adult stage, apply Meridian 0.33G with another insecticide active against mole crickets.                                                                                                                                                                                    |                                                                                                                                                                                                                                |
| <b>Chinch bugs</b> ( <i>Blissus</i> species)                                                                                                                                                                                                                                                                                                   | Apply when young nymphs are first observed.<br><br>Water in within 3 days of treatment, and optimally within 24 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                |
| <b>Flea beetles</b><br><b>Leafhoppers</b><br><b>Greenbugs</b><br><b>Sod webworms</b><br><b>Spittlebugs</b>                                                                                                                                                                                                                                     | For optimum control, make application when populations are first observed.<br><br>Water in within 3 days of treatment, and optimally within 24 hours.                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                |
| <b>Ants</b> (excluding Carpenter, Fire, Harvester, and Pharaoh ants)                                                                                                                                                                                                                                                                           | To control ants, treat when ant mounds are first observed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                |
| <b>USE RESTRICTIONS</b>                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.<br>2) <b>Maximum Annual Rate:</b> 80 lb product (0.265 lb ai) per acre per calendar year<br>3) <b>DO NOT</b> reapply within 7 days.                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                |

\* For turf with heavy thatch (more than 0.75"), use the higher rates within the specified rate range. Meridian 0.33G is not phytotoxic and can be used on all major turfgrass species.

\*\* Meridian 0.33G provides suppression of mole crickets on turf-grass. Suppression can mean either erratic control, ranging from good to poor, or a consistent level of control below that generally acceptable for commercial purposes.

## 7.0 INTERIORESCAPE AND LANDSCAPE ORNAMENTAL PLANTS AND TURFGRASS – NON-AGRICULTURAL USE

### 7.1 Application to Interiorscape and Landscape Ornamental Plants

#### 7.1.1 FOR CONTROL OF SOIL-INHABITING PESTS

| Soil and container/pot surface of ornamental plants in residential and commercial grounds (office and shopping complexes, airports).                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pests                                                                                                                                                                                                                                                                                                                                      | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Dosage of Meridian 0.33G                                                                                                                                                 |
| <b>Larvae (grubs) of:</b><br><i>Aphodius</i> species<br>Asiatic garden beetle<br>Billbugs ( <i>Sphenophorus</i> species)<br>Black turfgrass ataenius<br>European chafer<br>Green June beetle<br>Japanese beetle<br>May or June beetle ( <i>Phyllophaga</i> species)<br>Northern masked chafer<br>Oriental beetle<br>Southern masked chafer | <p>Apply up to 45 days before the historical peak of adult flight to 2<sup>nd</sup> instar grub of the species being targeted.</p> <p>For optimum control, treat from peak flight to peak egg hatch.</p> <p>To control grubs, make the application from egg hatch to second instar (grubs less than half their full size).</p> <p><b>Note:</b> If leaching, wait a minimum of 7 days after application to allow for maximum uptake of Meridian 0.33G by the plant's root system.</p> <p>Apply to the soil before pests are evident in situations where tolerance of insects or damage is low. Allow a minimum of one week for smaller plants and at least 2 weeks for large plants to translocate Meridian 0.33G to feeding sites of the target pest.</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p> | <p>7 - 9 lb/5,000 sq ft<br/>or<br/>60 - 80 lb/A<br/>(1.5 to 2 bags/A)</p> <p>Use the higher rate when pest pressures are high or longer residual control is desired.</p> |
| USE RESTRICTIONS                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                          |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.<br>2) <b>Maximum Annual Rate:</b> 80 lb product (0.265 lb ai) per acre per calendar year<br>3) <b>DO NOT</b> reapply within 7 days.                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                          |

#### 7.1.2 FOR CONTROL OF ABOVE-GROUND PESTS

| Soil and container/pot surface of ornamental annuals & small woody landscape plants on residential and commercial grounds (office and shopping complexes).                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pests                                                                                                                                                                                                                                                                                                                                                       | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dosage of Meridian 0.33G                                                                                                                                                 |
| Adelgids (including Hemlock Woolly Adelgid)<br>Aphids<br>Flea beetles<br>Japanese beetle adults<br>Lace Bug<br>Leaf beetles<br>Leafminers<br>Mealybugs<br>Root Aphid<br>Root Weevil larvae (including <i>Diaprepes abbreviatus</i> )<br>Sawflies<br>Soft Scales<br>Spittlebugs<br>Tent caterpillars<br>Thrips -- foliar feeding (suppression)<br>Whiteflies | <p>Apply 1 to 4 weeks before pest has historically been observed.</p> <p>Allow 1 to 4 weeks for reduction in pest density to occur.</p> <p><b>Note:</b> If leaching, wait a minimum of 7 days after application to allow for maximum uptake of Meridian 0.33G by the plant's root system.</p> <p>Apply to the soil before pests are evident in situations where tolerance of insects or damage is low. Allow a minimum of one week for smaller plants and at least 2 weeks for large plants to translocate Meridian 0.33G to feeding sites of the target pest.</p> <p>Apply to landscape ornamental plants to reduce populations of aphids, whiteflies, and mealybugs, which produce honeydew which serves as a food source for some ant species.</p> <p>Apply the proper rate as a broadcast treatment to the root zone of plants.</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p> | <p>7 - 9 lb/5,000 sq ft<br/>or<br/>60 - 80 lb/A<br/>(1.5 to 2 bags/A)</p> <p>Use the higher rate when pest pressures are high or longer residual control is desired.</p> |
| USE RESTRICTIONS                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                          |
| 1) Refer to <b>Section 5.1</b> for additional product use restrictions.<br>2) <b>Maximum Annual Rate:</b> 80 lb product (0.265 lb ai) per acre per calendar year<br>3) <b>DO NOT</b> reapply within 7 days.                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                          |

## 7.2 Application to Turfgrass- Non-Agricultural Use

| Turfgrass* on golf courses, residential lawns, commercial grounds (office and shopping complexes, airports), parks, playgrounds, and athletic fields.                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                  |
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| Pests                                                                                                                                                                                                                                                                                                                                      | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Dosage of Meridian 0.33G                                                                                                                                                                                                         |
| <b>Larvae (grubs) of:</b><br><i>Aphodius</i> species<br>Asiatic garden beetle<br>Billbugs ( <i>Sphenophorus</i> species)<br>Black turfgrass ataenius<br>European chafer<br>Green June beetle<br>Japanese beetle<br>May or June beetle ( <i>Phyllophaga</i> species)<br>Northern masked chafer<br>Oriental beetle<br>Southern masked chafer | <p>To help prevent white grubs, apply up to 45 days before the historical peak of adult flight for the targeted species. Irrigate within seven (7) days of application to move Meridian 0.33G into the root zone where grubs feed.</p> <p>To control white grubs, apply from egg hatch to 2<sup>nd</sup> instar (grubs less than half their full size). For optimum white grub control, apply from peak adult flight through peak egg hatch of the primary species being targeted. Irrigate within one (1) day of application to move Meridian 0.33G into the root zone where grubs feed.</p> | <p>7 - 9 lb/5,000 sq ft<br/>or<br/>60 - 80 lb/A (1.5 to 2 bags/A)</p> <p>Use the higher rate when pest pressures are high or longer residual control is desired.</p> <p>See Section 4.2.1 for spreader calibrations settings</p> |
| <b>Craneflies</b> ( <i>Tipula</i> species)                                                                                                                                                                                                                                                                                                 | <p>For optimum control, apply at oviposition (egg lay)</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                  |
| <b>Mole crickets</b> (suppression**) ( <i>Scapteriscus</i> species)                                                                                                                                                                                                                                                                        | <p>Apply early in the development of the younger stages when this insect pest is more susceptible (from first to peak egg hatch of the generation being targeted).</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p> <p>When populations are high and/or the insects are near the adult stage, apply Meridian 0.33G with another insecticide active against mole crickets.</p>                                                                                                                                                                                   |                                                                                                                                                                                                                                  |
| <b>Chinch bugs</b> ( <i>Blissus</i> species)                                                                                                                                                                                                                                                                                               | <p>Apply when young nymphs are first observed.</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                  |
| <b>Flea beetles</b><br><b>Leafhoppers</b><br><b>Greenbugs</b><br><b>Sod webworms</b><br><b>Spittlebugs</b>                                                                                                                                                                                                                                 | <p>For optimum control, make application when populations are first observed.</p> <p>Water in within 3 days of treatment, and optimally within 24 hours.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                  |

| Pests                                                                                                                                                                                                | Application Timing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Dosage of Meridian 0.33G                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ants</b> (excluding Carpenter, Fire, Harvester, and Pharaoh ants)                                                                                                                                 | <p>To control ants, treat when ant mounds are first observed.</p> <p><b>Green and tee surfaces:</b><br/>To achieve optimum control, treat the affected area plus a surrounding 30-foot buffer.</p> <p><b>Fairways and roughs:</b><br/>Treat at least 1.5 times the infested area. Water-in to adequately move active ingredient to target area. For additional knockdown activity, utilize with Scimitar® GC (lambda-cyhalothrin; EPA Reg No. 100-1088) Insecticide in an insect control spray program. Consult the Scimitar GC Insecticide label for use.</p> | <p>7 - 9 lb/5,000 sq ft<br/>or<br/>60 - 80 lb/A (1.5 to 2 bags/A)</p> <p>Use the higher rate when pest pressures are high or longer residual control is desired.</p> <p>See Section 4.2.1 for spreader calibrations settings</p> |
| USE RESTRICTIONS                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                  |
| 1) Refer to Section 5.1 for additional product use restrictions.<br>2) <b>Maximum Annual Rate:</b> 80 lb product (0.265 lb ai) per acre per calendar year<br>3) <b>DO NOT</b> reapply within 7 days. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                  |

\* For turf with heavy thatch (more than 0.75"), use the higher rates within the specified rate range. Meridian 0.33G is not phytotoxic and can be used on all major turfgrass species.

\*\* Meridian 0.33G provides suppression of mole crickets on turfgrass. Suppression can mean either erratic control, ranging from good to poor, or a consistent level of control below that generally acceptable for commercial purposes.

## 8.0 STORAGE AND DISPOSAL

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

#### Pesticide Storage

Store in a cool, dry place.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup, procedures and disposal of wastes. In the event of a major spill, fire, or other emergency call 1-800-888-8372, day or night.

#### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide is a violation of federal law. If these wastes cannot be used according to label instruction, contact your state Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

#### Container Handling (less than or equal to 50 pounds)

**Non-refillable HDPE container.** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

*continued...*

## STORAGE AND DISPOSAL *(continued)*

### Container Handling (bags)

**Non-refillable LDPE bag.** Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

### Container Handling (fiber drums with liners)

**Non-refillable LDPE bag.** Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-866-796-4368.

Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

## 9.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

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