

100-1346

08/25/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL, SAFETY  
AND POLLUTION PREVENTION

AUG 25 2011

Tom Parshley  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, NC 27419

Subject: Amendment to remove certain chinch bug claims on turf, and to revise text to control aphids  
EPA Registration #s 100-943; 100-961; 100-1341; 100-1346  
Primary Brand Name: Meridian 25WG; Meridian 0.33G; Meridian 0.20G; Meridian 0.14G  
Submission Date: August 9, 2011

Dear Mr. Parshley:

The labeling referred to above, submitted under FIFRA, as amended, is **acceptable**. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions, please contact Gene Benbow at (703) 347-0235 or via email at [benbow.gene@epa.gov](mailto:benbow.gene@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "John Hebert", with a long, sweeping flourish extending to the right.

John Hebert  
Product Manager 07  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

(printed bag or booklet)

**Meridian® 0.14G**

Group	<b>4A</b>	Insecticide
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[Insecticide]  
[Insecticide and Fertilizer]

For systemic insect control [and fertilization] on turfgrasses and ornamental plants

Active Ingredient:	
Thiamethoxam <sup>1</sup> .....	0.14%
Other Ingredients:	99.86%
Total:	100.00%

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

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use [in booklet] [on bag]

EPA Reg. No. 100-1346  
EPA Est. xxxxx

Product of xxxxx  
Formulated in the USA

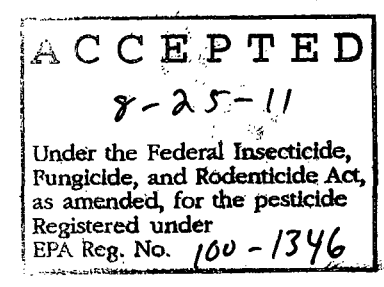
**Guaranteed Analysis:**  
*[Fertilizer information to be added to final printed labeling]*

Total Nitrogen (N)	xx%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	xx%
Soluble Potash (K <sub>2</sub> O)	xx%

Information regarding the contents and levels of metals in this product is available [on the internet at <http://www.>] [by calling 1-800-xxx-xxxx].

SCP 1346A-M(draft-b)

Net weight



<b>FIRST AID</b>	
<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.	
<p><b>HOT LINE NUMBER</b></p> <p>For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b></p>	

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Causes moderate eye irritation. [Harmful if absorbed through skin.] Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protection Equipment**  
**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (Category A, e.g., natural rubber ≥ 14 mils)
- Shoes plus socks
- Protective eyewear

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.

### **Engineering Control Statements**

When handlers use closed systems or 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.

### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### **Environmental Hazards**

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.

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## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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**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.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

### 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.

#### 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, forests, 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 any waterproof material (Category A, e.g., natural rubber ≥ 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, forests, nurseries, or greenhouses.

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

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

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## USE INFORMATION

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Meridian 0.14G controls many sucking and chewing insects through contact and ingestion both in the soil and by feeding on the plant tissue. [Meridian 0.14G also contains fertilizer for the growth and maintenance of turfgrass and landscape ornamentals.]

When Meridian 0.14G is applied to the lawn or the soil around landscape plants, the active ingredient is released from the granule by watering-in or rainfall. The active ingredient is absorbed via the root system and rapidly moves throughout the plant. In turf and small landscape plants, insect feeding will stop within a few hours of treatment. For large landscape plants, it may take several days or weeks before stem and foliar insects are controlled.

Meridian 0.14G in the soil and foliage also provides residual control of labeled pests. Meridian 0.14G is not active as an ovicide or as an insect growth regulator.

### Application Instructions

- Apply Meridian 0.14G as a uniform broadcast application with calibrated granular spreader equipment.
- For optimum insect control, irrigation or rainfall is recommended within 7 days of preventive treatments (before insects are present) or 1 day of curative treatments (after insects are present).
- For optimum insect control and healthy plant growth, maintain adequate soil moisture before and after application. Avoid excessively wet or dry conditions as insect control may be reduced.
- Apply preventively in situations where tolerance is low for insects or insect damage.
- For turf, avoid mowing until the treated area has been irrigated or rainfall has occurred to allow for maximum and uniform uptake into the turfgrass or soil.

### Restrictions

- Do not exceed 190 pounds (0.265 lb. ai.) of product per acre per year.
- Not for use on production ornamentals.
- Not for use on food-bearing plants.
- Do not distribute Meridian 0.14G from the palm of the hand.

## Resistance Management

The insecticide in Meridian 0.14G belongs to the neonicotinoid class of chemistry (Group 4A Insecticide) which is not known to be cross-resistant to any other class of insecticide. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of Meridian 0.14G should conform to sound resistance management strategies established for the crop and use area. Strategies should include rotation of chemicals with different modes of action, limitation of the number of successive generations of the target pest being treated with the same compound, and adherence to labeled directions.

Consult your local pest control advisor or extension office for additional methods for preventing resistance development. Syngenta encourages responsible product stewardship to ensure effective long-term control of the insect pests on this label.



**APPLICATION TO TURF**

Apply Meridian 0.14G to turfgrasses on golf courses, residential lawns, commercial grounds (e.g., office and shopping complexes, airports), parks, playgrounds, athletic fields and similar turfgrass areas; also for use on sod farms. Meridian 0.14G is not phytotoxic to major turfgrass species.

Pests	Rate <sup>1</sup>	Remarks <sup>2</sup>
<p><b>Larvae (white grubs) of:</b></p> <p><i>Aphodius</i> species                      Asiatic garden beetle                      Billbugs                      (<i>Sphenophorus</i> species)                      Black turfgrass ataenius                      European chafer                      Green June beetle                      Japanese beetle                      May or June beetle                      (<i>Phyllophaga</i> species)                      Northern masked chafer                      Oriental beetle                      Southern masked chafer</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>As a preventive grub treatment, apply up to 45 days before the historical peak of adult flight to second instar grub of the species being targeted.</p> <p>For optimum control, treat from peak adult flight through peak egg hatch of the primary species targeted.</p> <p>As a curative grub treatment, apply from egg hatch to second instar (grubs less than half their full size).</p>
<p>Craneflies (<i>Tipula</i> species)</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>For optimum control, apply at oviposition (egg lay).</p>
<p>Flea beetles                      Greenbug                      Leafhoppers                      Sod webworms                      Spittlebug</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>For optimum control, apply when populations are first observed.</p>
<p>Ants (excluding Carpenter, Fire, Harvester and Pharaoh ants)</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>Apply preventively when possible. For curative applications, treat when ant mounds are first observed.</p> <p>To achieve optimum control on low cut golf turf (greens and tees), treat the affected area plus a surrounding 30 foot buffer.</p> <p>For high cut golf turf (fairways and roughs), treat an area at least 1.5 times the infested area.</p>
<p>Mole crickets (suppression)<sup>3</sup>                      (<i>Scapteriscus</i> species)</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>To reduce mole cricket damage, treat from first egg hatch to peak egg hatch.</p>
<p>Chinch bugs                      (<i>Blissus</i> species)</p>	<p>142 – 190 lbs./A                      or                      3 – 4.4 lbs./1,000 sq. ft.</p>	<p>Apply when young nymphs are first observed.</p>

<sup>1</sup>See table for spreader settings to deliver the specified rate. For turf with heavy thatch (more than 0.75 in.), use the higher rates within the specified rate range.

<sup>2</sup>For specific information about developmental stages of the target pest and optimal timing of applications, consult with your State Cooperative Extension Service.

<sup>3</sup>Suppression can mean either erratic control, ranging from good to poor, or a consistent level of control below that generally acceptable for commercial purposes. Apply another insecticide that is efficacious against mole crickets when populations are high and/or the insects are near the adult stage.

**APPLICATION TO ORNAMENTALS**

Apply Meridian 0.14G to ornamentals such as trees, shrubs, small woody landscape plants, perennials and annuals grown in residential and commercial landscapes, parks, golf courses and similar areas. Not for use on food-bearing plants.

Pests	Rate <sup>1</sup>	Remarks <sup>2</sup>
<b>Soil-Inhabiting Pests</b>		
<p><b>Larvae (White Grubs) of:</b></p> <p><i>Aphodius</i> species Asiatic garden beetle Black turfgrass ataenius European chafer Green June beetle Japanese beetle May or June beetle (<i>Phyllophaga</i> species) Northern masked chafer Oriental beetle Southern masked chafer</p>	<p>142 – 190 lbs./A</p>	<p>As a preventative grub treatment, apply up to 45 days before the historical peak of adult flight to second instar grub of the species being targeted.</p> <p>For optimum control, treat from peak adult flight through peak egg hatch of the primary species targeted.</p> <p>As a curative grub treatment, apply from egg hatch to second instar (grubs less than half their full size).</p>
<b>Pests of Above-Ground Plant Parts</b>		
<p>Adelgids Aphids Azalea lace bug Flea beetles Japanese beetle adults Leaf beetles Leafminers Mealybugs Sawflies Soft scales Spittlebugs Tent caterpillars Whiteflies</p>	<p>142 – 190 lbs./A</p>	<p>Apply as a broadcast treatment to the root zone of plants. For optimum control, irrigate after application.</p> <p>Preventive: Apply 1 to 4 weeks before pest historically has been observed.</p> <p>Curative: Allow 1 to 4 weeks for pest density reduction.</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>Larger plants require the longer interval.</p>

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<sup>1</sup>See table for spreader settings to deliver the specified rate as a broadcast application to large areas.

<sup>2</sup>For specific information about developmental stages of the target pest and optimal timing of applications, consult with your State Cooperative Extension Service.

**SUGGESTED SPREADER SETTINGS FOR MERIDIAN 0.14G**

*[Spreader type and settings to be added to final printed labeling]*

Spreader settings are influenced by factors such as speed, equipment wear, and condition of spreader. The following chart can be used as a guide in establishing accurate calibration of your spreader to properly apply Meridian 0.14G at labeled rates. Carefully calibrate application equipment prior to commercial use of this product.

Spreader Type	Speed (mph)	Spreader Settings	
		100 lbs./A	130 lbs./A
Spreader A	X	XX	XX
Spreader B	X	XX	XX
Spreader C	X	XX	XX
Spreader D	X	XX	XX
Spreader E	X	XX	XX
...	X	XX	XX

**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.

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## Container Handling

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of the empty bag in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.
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Manufactured for:  
Syngenta Crop Protection, LLC  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

(Non-detachable container label for booklet)

**Meridian® 0.14G**

Group	<b>4A</b>	Insecticide
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[Insecticide]  
[Insecticide and Fertilizer]

For systemic insect control [and fertilization] on turfgrasses and ornamental plants

Active Ingredient:	
Thiamethoxam <sup>1</sup> .....	0.20%
Other Ingredients:	99.80%
Total:	100.00%

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

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements and directions for use in booklet.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1346  
EPA Est. xxxxx

**Guaranteed Analysis:**

*[Fertilizer information to be added to final printed labeling]*

Total Nitrogen (N)	xx%
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	xx%
Soluble Potash (K <sub>2</sub> O)	xx%

Information regarding the contents and levels of metals in this product is available by calling 1-800-xxx-xxxx.

SCP 1346A-M(draft-b)

Net weight

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

#### CAUTION

Causes moderate eye irritation. [Harmful if absorbed through skin.] Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

<b>FIRST AID</b>	
<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.	
<p><b>HOT LINE NUMBER</b></p> <p>For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b></p>	

#### 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**

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Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of the empty bag in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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

SCP 1346A-M(draft-b)

MER 0.14G 1346A-M(draft) AUG2011 – pl – 8/5/11  
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MER 0.14G 1346A-M(draft-b) AUG2011 CLEAN – pl – 8/22/11  
000100-01346.20110822.MERIDIAN-0.14G\_AMEND\_AUG2011.pdf