



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
 Registration Division (H7505C)
 401 "M" St., S.W.
 Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

 EPA Reg.
 Number:

100-943

Date of Issuance:

FEB 15 2007

Term of Issuance: Conditional

Name of Pesticide Product:

Meridian 25WG

Name and Address of Registrant (include ZIP Code):

Mr. Fred J. Pearson
 Syngenta Crop Protection, Inc.
 P.O. Box 18300
 Greensboro, NC 27419-8300

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

1. Revise the EPA Registration Number to read, EPA Reg. No. 100-943".

Signature of Approving Official:

Dani Daniel
 Insecticide-Rodenticide Branch
 Registration Division (7505P)

Date:

FEB 15 2007

Page Two
100-943

2. On page 3 under **Personal Protective Equipment** add to the applicators and handlers must wear list "**Protective eye wear**".

3. On page 3 add a third bullet to the **User Safety Recommendations** which should read as follows: "Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing."

4. On page 6 add "Wear protective eyewear" to the PPE under **Agricultural Use Requirement**".

5. On page 5 make the following changes to the **Limitation of Warranty**

- Change the word "**should**" to the word "**must**" in the first sentence of the second paragraph.

-Add "**To the extent consistent with applicable law**" at the beginning of "**Syngenta makes no warranties of merchantability ...**"

- Add "**To the extent consistent with applicable law**" at the beginning of "**The exclusive remedy of the user of buyer, and the exclusive liability ...**"

6. Submit to the Agency the required one year storage stability (830.6317) and Corrosion characteristics study (830.6320) for the proposed product. It is recommended that the observations are made at 0, 3, 6, 9 and 12 months intervals.

7. Submit two copies of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sect. 6(e). Your release for shipment of the product constitute acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure:

3 8 24

(Booklet)
(printed bag)

Meridian™ 25WG

GROUP 4A INSECTICIDE

Insecticide

For foliar and systemic control of insect pests in turf grass, sod farms, interiorscape and landscape plants.

Active Ingredient:	
Thiamethoxam ¹	25.0%
Other Ingredients:	75.0%
Total:	100.0%

¹ CAS No. 153719-23-4

Meridian™ 25WG is a water-dispersible granule that contains 4 oz. of active ingredient per lb. of formulated product.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

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

EPA Reg. 100-OUG

EPA Est. XXXXX

Product of XXXXX
Formulated in the USA

SCP XXXXA-L (draft)

3 pounds
25 pounds
Net Weight

**ACCEPTED
with COMMENTS
in EPA Letter Dated:
FEB 15 2007**

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
100-943

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none">• 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.• Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN There is no specific antidote if Meridian 25WG is ingested. Induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

Personal Protective 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., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton)
- Shoes plus socks

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, enclosed cabs, or aircraft 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

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

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

- **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from rainfall runoff (See manual at the following internet address: <http://www.wcc.nrcs.usda.gov/pestmgmt/core4.html>).

Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

- **Ground Water Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

- **Spray Drift Advisory**

Do not allow this product to drift.

Physical or Chemical Hazards

Do not use, pour, spill or store near heat or open flame.

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 should 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, Inc. or Seller. All such risks shall be assumed by Buyer and User, and 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. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

IT IS SYNGENTA'S AND SELLER'S INTENTION THAT in no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **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 of 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., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton)
- Shoes plus socks

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 product agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter treated areas without protective clothing until sprays have dried.

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

STORAGE AND DISPOSAL

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

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.

Pesticide Disposal

Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture, or rinse water 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 Disposal (plastic bucket)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Container Disposal (25 lb. bag)

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by other procedures allowed by state and local authorities.

GENERAL INFORMATION

Meridian 25WG is a broad-spectrum insecticide that is effective when applied at label rates to turf grass, plant foliage and soil.

Meridian 25WG is active against many sucking and chewing insect pests by contact and ingestion. Meridian 25WG is relatively short-lived on the surface of plant foliage, readily absorbed into plant tissues, and rainfast once it has dried. The rapid translaminar

absorption and distribution within leaves provides excellent residual control of foliar feeding insects.

In the soil, the active ingredient in Meridian 25WG will control soil pests upon contact or ingestion 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 25WG. Feeding will stop within minutes to hours of exposure and be followed by death of the pest. The moderate persistence of Meridian 25WG in the soil and foliage also provides residual control of labeled pests. Meridian 25WG is not active as an ovicide or as an insect growth regulator. Because residues on leaf surfaces are quickly degraded, Meridian 25WG is compatible with beneficial arthropods.

Resistance Management

Meridian 25WG belongs to the neonicotinoid class of chemistry (Group 4A Insecticide). Pests which are resistant to insecticides in other chemical classes are not known to be cross-resistant to Meridian. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of Meridian 25WG 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

Meridian 25WG can be applied to turf grass on: golf courses, residential lawns, commercial grounds (i.e., office and shopping complexes, airports), parks, playgrounds, athletic fields and sod farms.

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply more than 17.0 oz. of Meridian 25WG (0.266 lbs. thiamethoxam) per acre per year

BROADCAST APPLICATIONS TO TURF

Apply Meridian 25WG as a broadcast application to turf grass for control of targeted pests. Use sufficient water volume (1.5 - 5 gal./ 1000 sq. ft.) to uniformly distribute Meridian 25WG over the area being treated and to adequately move the active

ingredient into the canopy and thatch layers. Irrigation or rainfall is recommended within seven days of preventative treatments and one day of curative treatments to move Meridian 25WG into the root zone where grubs feed. Adequate soil moisture before and after application should be maintained for optimum control and healthy turf grass growth. Excessively wet or dry conditions may impact the performance of Meridian 25WG against white grubs and mole crickets and thus these extremes should be avoided when using this product. Avoid mowing turf until the treated area has been irrigated or rainfall has occurred to allow for maximum and uniform uptake into turf grass.

Pests

Larvae (white grubs) of: Japanese beetle (*Popillia japonica*); Northern masked chafer (*Cyclocephala borealis*); Southern masked chafer (*C. immaculata*); European chafer (*Rhizotrogus majalis*); May or June beetle (*Phyllophaga* spp.); Asiatic garden beetle (*Maladera castanea*); Oriental beetle (*Exomala orientalis*); Green June beetle (*Cotinus nitida*); Black turfgrass ataenius (*Ataenius spretulus*); Billbugs (*Shenophorus* spp.) and *Aphodius* spp.

Suppression only: Mole Crickets (*Scapteriscus* spp.) and Chinch bugs

Application Rate

- Apply 12.7 - 17.0 oz. of Meridian 25WG (0.198 - 0.266 lbs. a.i.) per acre (1.5 - 1.95 oz. per 5,000 sq. ft.).

Application Timing

For Larvae (white grubs): Meridian 25WG is effective at labeled rates when applied as a preventative or curative treatment.

- As a preventative treatment, Meridian 25WG may be applied up to 45 days before the historical peak of adult flight for the targeted species.
- As a curative grub treatment, make the application from egg hatch to second instar (grubs less than half their full size).
- For optimum white grub control, apply Meridian 25WG from peak adult flight through peak egg hatch of the primary species being targeted.

For suppression of mole crickets: apply Meridian 25WG preventatively from first to peak egg hatch of the generation being targeted.

For suppression of Chinch bugs: apply Meridian 25WG when young nymphs are first observed.

INDIVIDUAL MOUND TREATMENTS (FIRE ANTS)

Application Rate

For control of fire ants (*Solenopsis* spp.) prepare a drench solution at a concentration of 1 - 3 oz. of Meridian 25WG per 10 gal. of water. Thoroughly mix solution and apply directly to mounds. For optimum control of small ant mounds (<6 inches in diameter at the surface) apply one gal. of the drench solution per mound. For optimum control of larger ant mounds, apply 2 - 3 gal. of the drench solution per mound. The drench application should be directed at the center of the mound and include a 6 inch diameter circle around the center of the mound. Do not apply less than 0.5 gal. or more than 3 gal. of drench solution per mound.

Application Timing

For control of fire ants, make a single application when mounds appear to be active.

Recommendations For Use on Turfgrass

Use sites include turfgrass on golf courses, residential lawns, commercial grounds (i.e., office and shopping complexes, airports), parks, playgrounds, athletic fields, and sod farms.

Use Pattern	Pests	Dosage of Meridian 25WG	Remarks
Broadcast	Larvae (white grubs) of: Japanese beetle <i>(Popillia japonica)</i> Northern masked chafer <i>(Cyclocephala borealis)</i> Southern masked chafer <i>(C. immaculata)</i> European chafer <i>(Rhizotrogus majalis)</i> May or June beetle <i>(Phyllophaga spp.)</i> Asiatic garden beetle <i>(Maladera castanea)</i> Oriental beetle <i>(Exomala orientalis)</i> Green June beetle <i>(Cotinus nitida)</i> Black turfgrass ataenius <i>(Ataenius spretulus)</i> Billbugs <i>(Sphenophorus spp.)</i> <i>Aphodius spp.</i>	12.7-17 oz./A or 1.5-1.95 oz./ 5,000 sq. ft.	Application Timing: Apply up to 45 days before the historical peak of adult flight to 2 nd instar grub of the species being targeted. For optimum control, treat from peak flight to peak egg hatch.
	Suppression of Mole crickets (Scapteriscus spp.)	12.7-17 oz./A or 1.5-1.95 oz./ 5,000 sq. ft.	To suppress damage, treat from first egg hatch to peak egg hatch.
	Chinch bugs (suppression)	12.7-17 ozs./A or 1.5 oz-1.95 ozs./ 5,000 sq. ft.	Apply when young nymphs are first observed. See note below.

Use Pattern	Pests	Dosage of Meridian 25WG	Remarks
Ant Mounds	Fire Ants (<i>Solenopsis</i> spp.)	1-3 oz./10 gals.	For small mounds (<6" in diameter) apply 1 gal. of water per mound and for larger mounds apply 2-3 gals. per mound for optimum control. Do not apply less than 0.5 or more than 3 gals. per mound.

Remarks:

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

Note: For turf with heavy thatch (more than 0.75 inches), use the higher rates within the recommended range. Meridian 25WG is not phytotoxic to any major turf grass species.

Note: Meridian 25WG provides suppression of mole crickets and chinch bug populations 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.

APPLICATION TO INTERIORESCAPE AND LANDSCAPE ORNAMENTAL PLANTS

Meridian 25WG can be applied to ornamentals grown in residential and commercial landscapes, parks, golf courses and interiorscapes.

- **DO NOT** exceed 17 oz. of Meridian 25WG (0.266 lbs. Thiamethoxam) per acre per year.
- **DO NOT** inject this product into trees.
- **DO NOT** apply as a concentrate spray to interiorscape plants.

Application Methods for Ornamentals

Meridian 25WG is an effective insecticide when applied to plant foliage, soil or soil-less media, and fire ant mounds.

Foliar Application to Ornamental Plants

Make foliar applications in an adequate water volume to achieve thorough and uniform coverage without excessive runoff (to drip). On hard to wet plants, spray adjuvants that improve wetting of foliage are recommended. Do not use spray adjuvants that may bind Meridian 25WG to the leaf surface, which would limit absorption into the foliage.

Meridian 25WG can be applied in a range of spray volumes (concentrate to dilute spray volumes) provided thorough and uniform coverage is obtained. For concentrate sprays (i.e., ULV, foggers, air assist equipment), apply the same amount of Meridian 25WG per unit area as would be used in a dilute spray volume over the same area.

Begin applications when labeled pests first appear or when economic thresholds have been reached. Repeat applications as necessary to maintain control, but no sooner than every 7 days.

Recommendations For Foliar Applications to Ornamental Plants

For plants grown in residential and commercial landscapes, parks, golf courses and interiorscapes.

Pests	Dosage of Meridian 25WG	Remarks
Aphids Whiteflies Mealybugs	2-8.5 oz./100 gals.	<p>Timing: Apply when pests are first observed. Reapply as needed but no sooner than every 7 days.</p> <p>For concentrated spray volumes, apply the same amount of product per unit area as would be applied with dilute spray volumes.</p>
Adult Black vine weevil	8.5 oz./100 gals.	<p>Apply to foliage of plants when adult feeding damage is first observed. Make only one application per generation.</p> <p>For concentrated spray volumes, apply the same amount of product per unit area as would be applied with dilute spray volumes.</p>
Leafhoppers Plant bug Honeylocust Pod gall Nipple gall Blister gall	4.0 oz./100 gals.	<p>For gall makers, apply during egg laying of the generation being targeted. For leafhoppers, plant bug, and aphids make the first application when populations are first observed. Repeat applications as necessary to maintain control, but no sooner than 7 days after the last application.</p> <p>For concentrated spray volumes, apply the same amount of product per unit area as would be applied with dilute spray volumes.</p>

Remarks:

- Do not exceed 17 oz./A per year when making applications to ornamentals.
- Do not apply as a concentrate spray to interiorscape plants.

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.

Application to Soil and Soil-less Media of Ornamental Plants

Meridian 25WG is effective as a soil and systemic insecticide when applied to the soil or soil-less media using broadcast, banded, drench sprays or soil injection applications. As a broadcast or banded application, use sufficient water volume (1.5 – 5 gal./1000 sq. ft.) to uniformly distribute Meridian 25WG at the labeled rate over the area being treated. Meridian 25WG can also be applied as a partial drench (1/3 of a full drench water volume), wetting only the upper portion of the growing media. For soil injection around trees and shrubs, uniformly select sites and evenly distribute Meridian 25WG solution among injection sites. Excessive watering may reduce the effectiveness of Meridian 25WG. Allow a minimum of 7 days after application for maximum uptake of Meridian 25WG by the plant's root system.

Meridian 25WG must move to the feeding site of the target pest, whether this is in the root zone or the above ground portion of the host plant. Therefore, control of pests from the systemic activity of Meridian 25WG may be delayed for one or more weeks depending on plant size, rate of uptake from the soil or 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, Meridian 25WG should be applied preventatively (before pests are evident) to the growing media. With irrigation or rainfall, move Meridian 25WG into the root zone of plants or the location of soil-dwelling pests. Watering-in should occur within 3 days of treatment and optimally within 24 hours. Repeat applications of Meridian 25WG as needed, but no sooner than every 7 days and do not exceed a total of 17 oz. of Meridian 25WG per acre per year.

Individual Mound Treatments (Fire Ants)

Please refer to the **Application to Turf** Section of the label.

Recommendations for Applications to Soil of Ornamentals Plants

For plants grown in residential and commercial landscapes, parks, golf courses and interiorscapes.

Pests	Dosage of Meridian 25WG	Remarks
<p>Larvae (Grubs) of:</p> <p>Japanese beetle Northern masked chafer Southern masked chafer European chafer May or June beetle (<i>Phyllophaga</i> spp.) Asiatic garden beetle Oriental beetle Green June beetle Black turfgrass atenius <i>Aphodius</i> spp.</p>	<p>Broadcast* 12.7-17 oz./A or 1.5-1.95 oz./5,000 sq. ft.</p> <p>Banded* Apply 0.9-1.2 oz. in a 1,000 sq. ft. band over the center of the planted row</p> <p>Partial Drench* 1.5-1.95 oz./5,000 sq. ft.</p>	<p>Application Timing Apply up to 45 days before the historical peak of adult flight to 2nd instar grub of the species being targeted. For optimum control, treat from peak flight to peak egg hatch.</p> <p>*Minimum Water Volumes <u>Broadcast and Banded</u> - 1.5 gals. of water/1,000 sq. ft.; <u>Partial Drench (1/3 of full drench water volume)</u> - 150 gals./A or approx. 17 gals./5,000 sq. ft. Note: If leaching, wait a minimum of 7 days after application to allow for maximum uptake of Meridian 25WG by the plant's root system.</p>
<p>Aphids Whiteflies Mealybugs</p>	<p>Broadcast 6-17.0 oz./A or 0.7-1.95 oz./5,000 sq. ft.</p> <p>Partial Drench* 6-17.0 oz./A or 0.7-1.95/5,000 sq. ft.</p> <p>Soil Injection: Single Plant 2-4 gms. per one inch of tree trunk diameter at chest height (approximately 4.5 ft.) or per ft. of shrub height</p> <p>Soil Injection: Multiple Plants 1-2 oz. per 15 inches of cumulative trunk diameter at chest height (approximately 4.5 ft.) or per 15 cumulative ft. of shrub height</p>	<p>Apply to the soil preventively 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 25WG to feeding sites of the target pest.</p> <p>*Minimum Water Volumes <u>Broadcast and Banded</u> - 1.5 gals. of water/1,000 sq. ft.; <u>Partial Drench (1/3 of full drench water volume)</u> - 150 gals./A or approx. 17 gals./5,000 sq. ft.</p> <p>Soil Injection For Trees <i>Basal System:</i> Apply the proper rate among 4 evenly spaced injection sites located within a foot of each trunk. <i>Grid System:</i> Within the drip-line, apply the proper rate among injection sites on 1.5-2.5 ft. centers.</p> <p>Soil Injection For Shrubs Within the canopy, apply the proper rate among a minimum of 4 evenly spaced injection sites per shrub. Note: If leaching, wait a minimum of 7 days after application to allow for maximum uptake of Meridian 25WG by the plant's root system.</p>

Pests	Dosage of Meridian 25WG	Remarks
Fire Ants (<i>Solenopsis</i> spp.)	1-3 oz./10 gals.	<u>Individual Mound Treatment:</u> For small mounds (<6" in diameter) apply 1 gal. of water per mound and for larger mounds apply 2-3 gals. per mound for optimum control. Do not apply less than 0.5 or more than 3 gals. per mound.

Remarks:

- Do not exceed 17 oz./A per year when making applications to the soil for ornamentals.
- Do not inject this product into trees.

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. Please refer to additional comments under **General Information** section relating to ornamental applications to soil and related irrigation events.

MIXING PROCEDURES

Prepare only the amount of spray mixture that is needed for the immediate application. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Meridian 25WG Alone

Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the Meridian 25WG to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Meridian 25WG has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Meridian 25WG + Tank Mixtures

Meridian 25WG is compatible with many other commonly used insecticides, fungicides, liquid fertilizers. Check compatibility before tank mixing.

Add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank mix partners. In general tank mix partners should be added in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as Meridian 25WG, liquid flowables, liquids and emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all the mixture has been applied.

Note: When using Meridian 25WG in tank mixtures, all products in water-soluble packaging should be added to the tank before any other tank mix partner, including Meridian 25WG. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank mix partner to the tank.

If using Meridian 25WG in a tank mixture, observe all directions for use, crop/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank mix product label. No label dosage rate should be exceeded, and the most restrictive label precautions and limitations should be followed. This product should not be mixed with any product, which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are labeled.

Compatibility

Meridian 25WG is compatible with most insecticide, fungicide, and foliar nutrients products. However, the physical compatibility of Meridian 25WG with tank-mix partners should be tested before use. To determine the physical compatibility of Meridian 25WG with other products, use a jar test, as described below.

Using a quart jar, add the proportionate amounts of the products to 1 qt. of water. Add wettable powders and water-dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481.

Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

SCP XXXXXA-L(draft)

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(Base Label)

Meridian™ 25WG

GROUP 4A INSECTICIDE

Insecticide

For foliar and systemic control of insect pests in turf grass, sod farms, interiorscape and landscape plants.

Active Ingredient:	
Thiamethoxam ¹	25.0%
Other Ingredients:	75.0%
Total:	100.0%

¹CAS No. 153719-23-4

Meridian™ 25WG is a water-dispersible granule that contains 4 oz. of active ingredient per lb. of formulated product.

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. 100-OUG

EPA Est. XXXXX

SCP XXXXA-L(draft)

3 pounds
25 pounds
Net Weight

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
NOTE TO PHYSICIAN	
There is no specific antidote if Meridian 25WG is ingested. Induce emesis or lavage stomach. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372	

Environmental Hazards

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

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops. Do not apply this product or allow it to drift to blooming crops if bees are visiting the treatment area.

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or disposing of equipment wash water.

- **Surface Water Advisory**

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. 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 for contamination of water from rainfall runoff (See manual at the following internet address: <http://www.wcc.nrcs.usda.gov/pestmgt/core4.html>).

Runoff of this product will be reduced by avoiding applications when rainfall is forecast to occur within 48 hours.

- **Ground Water Advisory**

Thiamethoxam has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

- **Spray Drift Advisory**

Do not allow this product to drift.

Container Disposal (plastic bucket)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

Container Disposal (25 lb. bag)

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by other procedures allowed by state and local authorities.

Chemigation: **DO NOT** apply this product through any type of irrigation system.

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