

66330-365

09-07-2010

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

W.A. Hawkins, Jr., PhD
Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

SEP 7 2010

Dear Dr. Hawkins:

Subject: Labeling Amendment; Submission of Fire Ant and Tick Data
Aloft GC SC Insecticide EPA Reg. No. 66330-365
Aloft LC SC Insecticide EPA Reg. No. 66330-366
Aloft GC G Insecticide EPA Reg. No. 66330-367
Aloft LC G Insecticide EPA Reg. No. 66330-368
Submission Date: July 30, 2010

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable. Stamped copies are enclosed for your records. Please submit one (1) final printed copy for each of the above mentioned labels before releasing the products for shipment. If you have any questions regarding this letter, please contact Kable Bo Davis at (703) 306-0415 or davis.kable@epa.gov.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Venus Eagle".

Venus Eagle
Product Manager (01)
Insecticide-Rodenticide Branch
Registration Division (7505P)

Enclosure- Stamped Labeling; Agency Review (D380963, D380966, D380967, D3809668)

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RESTRICTED USE PESTICIDE

Toxic to Fish and Aquatic Organisms

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by certified applicator's certification.

GROUP 4A INSECTICIDE

GROUP 3 INSECTICIDE

**ALOFT™ GC SC
INSECTICIDE**

For contact and systemic insect pest control in turf and landscape ornamentals, trees and non-bearing fruit trees (including apple and pear) on golf courses, lawns and around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields, and sod farms.

DO NOT USE THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN MASSACHUSETTS OR SUFFOLK COUNTY, NEW YORK.

ACCEPTED
SEP 7 2010
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 66330-365

INGREDIENTS

	By wt.
Active Ingredients:	
Clothianidin*	24.70%
Bifenthrin**	12.30%
Other Ingredients	63.00%
Total	100.00%

*(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine.

** 2-methylbiphenyl-3-ylmethyl (1RS,3RS)-3-[(Z)-2-chloro-3,3,3-trifluoroprop-1-enyl]-2,2-dimethylcyclopropanecarboxylate (cis isomers 97% minimum, trans isomers 3% maximum)

Contains 2.22 lbs of Clothianidin and 1.10 lbs of Bifenthrin per gallon

**KEEP OUT OF REACH OF CHILDREN
WARNING AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle
(If you do not understand the label, find someone to explain it to you in detail.)

See inside booklet for additional precautionary statements

EPA Registration No. 66330-365

EPA Est. No.

FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call 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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for further 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 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.
<p>NOTE TO PHYSICIAN: This pesticide contains a pyrethroid. If significant quantities have been swallowed, promptly eliminate the ingested quantities from the stomach and intestines. Treatment is symptomatic and supportive. Alcohol, milk, cream, and other digestible fats and oils should NOT be administered as they may increase absorption.</p>	

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE: CALL PROSAR at 1-866-303-6952.**

Produced for:

Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

For Product Use Information, call 1-866-761-9397

Net Contents: _____

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING. May be fatal if swallowed. Harmful inhaled. Avoid breathing spray mist. Wear: long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart. Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- shoes plus socks
- chemical-resistant gloves

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. Do not apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

DIRECTIONS FOR USE

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

Carefully read and understand the Directions for Use and restrictions before applying this product.

Do not apply this product in any 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.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Applications to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

RESTRICTIONS

Do not apply by air.

Do not water the treated area to the point of run-off.

Do not make applications during rain.

Do not apply through any type of irrigation system.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Do not apply within a 25 foot radius of the following: Lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Do not apply on the following: Commercial nurseries, commercial greenhouses and grass grown for seed.

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 on this label about personal protective equipment (PPE), notification to workers 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 entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry into 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
- Shoes plus socks
- Chemical-resistant gloves

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in the 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 and commercial greenhouses.

Keep children and pets off treated area until the spray has dried.

USE INFORMATION

ALOFT™ GC SC is a broad spectrum, long lasting contact and systemic insecticide for control of listed insects infesting turfgrass and ornamentals in landscapes and surrounding areas. **ALOFT GC SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries, and arboretums. **ALOFT GC SC** can be used on commercial sod farms.

PREPARATION OF SPRAY MIXTURES AND APPLICATION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add the necessary amount of **ALOFT GC SC** before adding any other products. Agitate to ensure thorough mixing while adding the remaining water. Maintain agitation during mixing and application. Apply with properly calibrated spray equipment. If agitation is stopped for any reason the spray solution must be thoroughly remixed prior to any further use.

Use sufficient water volume to provide uniform coverage of the turfgrass and ornamental plants. For control of surface insects, do not water in until at least 48 hours after the application. If the target insects are in the thatch, either apply **ALOFT GC SC** in enough spray volume to wet the thatch or lightly water in after application with enough water to wet the thatch zone.

For control of existing grub populations, water in after application with enough water to move the insecticide into the root zone where the grubs are feeding.

RESISTANCE MANAGEMENT

ALOFT GC SC contains two active ingredients with different modes of action and provides a recognized built in insecticide resistance management strategy to minimize the development of insecticide resistance in insect pests. The active ingredients in **ALOFT GC SC** are clothianidin, a Group 4A insecticide, and bifenthrin a Group 3 insecticide. Insect biotypes with acquired resistance to Group 4A or Group 3 insecticides may eventually dominate the insect population if Group 4A or Group 3 insecticides are used alone or repeatedly in the same site or in successive years as the primary method of control for targeted species.

To delay insecticide resistance in insects that are at risk of developing resistance to insecticides consider:

- Avoid the consecutive use insecticides on the same insect species.
- Use tank-mixtures or pre-mixes of insecticides from a different target site of action.
- Base insecticide use on a comprehensive IPM program.
- Monitor treated insect populations for loss of field efficacy.
- Contact your State Agricultural Experiment Station, State Extension Specialists, other turf experts and/or Arysta LifeScience North America Corporation for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.
- For further information or to report suspected resistance, you may contact Arysta LifeScience North America Corporation at 1-866-761-9397.

APPLICATION INSTRUCTIONS – TURFGRASS AND PERIMETERS AROUND LAWNS AND LANDSCAPED AREAS ADJACENT TO TURF AREAS.

ALOFT GC SC can be used for broad spectrum insect control in turfgrass and perimeters. **ALOFT GC SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries, arboretums and sod farms.

ALOFT GC SC has sufficient contact and residual activity to provide high levels of control. The need for an application can be based on historical monitoring of the presence of or anticipated occurrence of individual or multiple insect pest species, the site, previous records or experiences, current season adult trapping or other methods. Optimum control of white grubs will be achieved when applications are made just prior to egg laying or to early instar larvae of target pests, followed by sufficient irrigation or rainfall to move the active ingredient into the zone where the insect pests are active. Multiple applications can be made each growing season but do not use more than 23.3 fl oz of product (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year. Note: You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lbs active ingredient per acre per year for use in lawns and perimeters.

ALOFT GC SC can be applied to turfgrass at 11.65 – 23.3 fl oz per acre per year (0.27 – 0.54 fl oz/1,000 sq ft). The rate is dependent on the target pest(s), their stage of development and the desired level of control. Optimum control of white grubs (larvae) will be achieved when applications are made just prior to or just after peak egg laying. Use higher rates when long residual control is desired for control of multiple insect pests or late season applications are made to turf already showing grub damage. Multiple applications can be made but do not exceed the maximum amount per year (23.3 fl oz/A or 0.54 fl oz/1,000 sq ft). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other turf experts for specific information concerning the timing of applications.

For early season control of insect pests (such as annual bluegrass weevil) and for full season control of white grubs, make the first application of **ALOFT GC SC** at peak adult activity or when other insect pests reach a damaging population in the spring at a rate of 11.65 – 23.3 fl oz/A (0.27 – 0.54 fl oz/1,000 sq ft). For control of white grubs at standard application timing, apply 11.65 – 23.3 fl oz/A (0.27 – 0.54 fl oz/1,000 sq ft) just prior to peak adult activity or to early instar larvae.

For control of listed surface insects, do not water in until at least 24 hours after the application. For control of the target insects that are in the thatch, use enough carrier volume to move the insecticide into the thatch or lightly water in after application with enough water to wet the thatch zone. For control of armyworms, cutworms and other surface feeders, apply 11.65-23.3 fl oz/A (0.27-0.54 fl oz/1,000 sq ft) at the first sign of insects or insect damage. Repeat applications as needed to control additional flushes of insects. Up to a total of 23.3 fl oz/A per year (0.54 fl oz/1,000 sq ft) can be applied.

For control of existing grub populations, irrigate after application with enough water to move the insecticide into the zone where the grubs are feeding.

Do not mow until after irrigation or rainfall has occurred.

TURFGRASS AND PERIMETERS AROUND LAWNS	
APPLICATION RATE	INSECT PEST
0.27 – 0.44 fl oz per 1,000 sq ft (11.65 – 19 fl oz/A)	Annual Bluegrass Weevil / Hyperodes (Adults) ¹ Annual Bluegrass Weevil / Hyperodes (Larvae) ¹ Ants ² , Nuisance (Excluding fire, harvester, pharaoh, and carpenter)

TURFGRASS AND PERIMETERS AROUND LAWNS

	<p>ants) Armyworms Billbugs³ Black Turfgrass Ataenius⁴ Chiggers Chinch Bugs Cutworms European Crane Fly Grasshoppers Leafhoppers Mole Crickets⁵ Pillbugs Sod webworms Sowbugs Spittle bug Sugarcane grub White grubs⁶ (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)</p>
<p>0.27 – 0.54 fl oz/1,000 sq ft (11.65 – 23.3 fl oz/A)</p>	<p>Ticks⁷</p>

¹ **Annual Bluegrass Weevil:** Application can be timed for adult weevils as they move from their over-wintering sites into turf. This movement usually begins shortly after or when Forsythia is in full bloom and continues to full bloom of dogwoods. Larvae from adult weevils that escape the application will be controlled with the application directed at adult weevils. Applications made after adult weevil activity will control larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. Full season control of white grubs will be obtained with an application of 14 fl oz/A targeted towards Annual Bluegrass Weevil/Hyperodes.

² Applications of **ALOFT GC SC** in the late fall or early spring will reduce populations of nuisance ants on golf course fairways, greens, and residential lawns. Make an application in the fall before ants stop foraging or after they become active in the spring. For broadcast application, make the application and lightly water in to wet the turf and thatch area where ants are foraging.

³ **Billbugs:** Application can be made when adult Billbugs are first observed, usually in April and May in temperate regions. A spring application will also control Billbug larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. White grubs will be controlled with an application targeted towards Billbugs.

⁴ **Black Turfgrass Ataenius:** Application can be timed to coincide with the first generation of Black Turfgrass Ataenius that usually appears during May. White grubs will be controlled with an application targeted towards Black Turfgrass Ataenius.

⁵ **Mole Crickets:** Apply during peak adult flight and egg lay. If the soil is dry, irrigate before application to stimulate insect activity and water in lightly after application to move the insecticide into the zone where the mole cricket are active.

⁶ **ALOFT GC SC** will control white grubs anytime applications are made when they are active from early spring to late fall. The residual activity of **ALOFT GC SC** is long enough to provide season long control of white grubs when applied for control of early season insects such as Annual Bluegrass Weevil, Billbugs, Nuisance Ants, overwintering White Grubs or other early season insects.

⁷ **Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever):** Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating

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areas with dense groundcover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals.

Deer Ticks (*Ixodes* sp.): Apply in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid- to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American Dog Ticks (*Dermacentor* sp.): These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

RESTRICTIONS

- Do not apply more than a total of 23.3 fl oz of **ALOFT GC SC** (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.

If the maximum season limit of **ALOFT GC SC** has been applied and pest populations require additional treatments, use another registered pesticide labeled for control of the targeted insects that does not contain clothianidin. You may use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lbs active ingredient per acre per year for use in lawns and perimeters.

APPLICATION INSTRUCTIONS – LANDSCAPE ORNAMENTALS

ALOFT GC SC is a broad spectrum, contact and long lasting systemic insect control product for a wide spectrum of insects infesting landscape ornamentals. **ALOFT GC SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries and arboretums.

For foliar applications, apply volume of spray solution to wet the surface of the leaves to the point of drip.

For control of listed surface insects and insects that crawl along the surface of the soil or mulch under ornamentals, water in lightly after application to move the insecticide into the areas where insects are active. Water in with enough irrigation or rainfall to move the active ingredient into the zone where the target insects are active. Soil surface applications will provide control of foliage feeding insects; however, optimum control will not be achieved until the active ingredient is taken up by the plant roots and translocated to the area where insects are feeding.

LANDSCAPE ORNAMENTALS			
FOLIAR APPLICATION (fl oz/100 gals)	FOLIAR INSECT PESTS CONTROLLED		APPLICATION INSTRUCTIONS
3.6 – 15.5 (5.0 -22.5 fl oz/A based on 150 gallons of spray per acre)	Aphids Caterpillars Leafhoppers Mealy bugs White Flies		Target the spray towards the areas where the insects are active. Use enough water carrier to wet the surfaces on the target plants to the point of drip.
5.0 – 15.5 (7.5 -22.5 fl oz/A based on 150 gallons of spray per acre)	Ants ¹ Bagworms Backline Weevil (Adults) Brown Soft Scale Budworms California Red Scale (crawlers) Chiggers Clover Mites Crickets	Cutworms Earwigs Elm Leaf Beetles Flea Beetles Japanese Beetles (Adults) Plant Bugs Spiders Tent Caterpillars Tip Moths Weevils	Repeat applications may be made if insects reappear but do not exceed a total of 0.54 fl oz ALOFT GC SC per 1,000 sq ft of landscape.
8.0 – 15.5 (12 -22.5 fl oz/A based on 150 gallons of spray per acre)	Adelgids Azalea lace bug Beetles Cicadas (adults) Citrus Trips Diaprepes (adults) Florida wax scale Glassy winged Sharpshooter	Gypsy moth Lace Bugs Leaf miners Leaf rollers Mites ² Pine Needle Scales (crawlers) Plant bugs (incl. <i>Lieges</i> spp.) Scales, soft	

RESTRICTIONS

¹ **ALOFT GC SC** will control aphids, scale insects, mealybugs and other sucking pests on ornamentals and limit the honeydew available as a food source for ant populations. Ants (excluding fire, harvester, carpenter and pharaoh ants) present at the time of application will also be controlled.

² **ALOFT GC SC** will provide suppression of broad Mites, Clover Mites, European Red Mites and Spider Mites when used for control of other insects. Use a surfactant on hard to wet plants. The use of an alternate class of chemistry in a mite treatment program is recommended to prevent or delay development of bifenthrin resistant mite populations.

- Do not apply more than a total of 23.3 fl oz of **ALOFT GC SC** as a **broadcast application** (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.
- If the maximum season limit of **ALOFT GC SC** has been applied and pest populations require additional treatments, use another pesticide labeled for control of the targeted insects that does not contain clothianidin. You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lbs active ingredient per acre per year for use in lawns and perimeters.

LANDSCAPE ORNAMENTALS		
SOIL SURFACE or MULCH APPLICATION	SOIL INSECT PESTS CONTROLLED	APPLICATION INSTRUCTIONS
0.27 – 0.44 oz per 1,000 sq ft (11.65 – 19 fl oz/A)	<p>Ants, Nuisance (Excluding fire, harvester, pharaoh, and carpenter ants)</p> <p>Beet Armyworm</p> <p>Beetles</p> <p>Black Vine Weevils (Larvae)</p> <p>Centipedes</p> <p>Crickets</p> <p>Cutworms</p> <p>Diaprepes (Adults)</p> <p>Earwigs</p> <p>Fall Armyworms</p> <p>Grasshoppers</p>	<p>Millipedes</p> <p>Pill Bugs</p> <p>White grubs (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)</p> <p>Apply in enough water to wet the areas where the insects are active or water in after applications with enough irrigation to move the insecticide into the areas where insects are active.</p> <p>For ornamental trees and woody shrubs see below.</p>
SOIL SURFACE or MULCH APPLICATION	ABOVE GROUND INSECT PESTS CONTROLLED	APPLICATION INSTRUCTIONS
0.34 – 0.54 oz per 1,000 sq ft (15 – 23.3 fl oz/A)	<p>Aphids</p> <p>Azalea lace bug</p> <p>Black Vine Weevil (Adults)</p> <p>Borers*</p> <p>Caterpillars</p> <p>Flea Beetles</p> <p>Florida wax scale</p> <p>Glassy winged sharpshooter</p> <p>Gypsy Moth Caterpillars</p>	<p>Japanese Beetles (Adults)</p> <p>Leafhoppers</p> <p>Leafminers</p> <p>Leafrollers</p> <p>Mealybugs</p> <p>Plant Bugs (incl. Lygus spp.)</p> <p>Root Weevils (incl. Black Vine Weevils)</p> <p>Scales, Soft Whiteflies</p> <p>Apply in enough water to wet the root zone of the plants. Control of leaf feeding insects will be delayed until the insecticide is taken up by the roots and moved into the areas where insects are feeding, usually 2 – 4 weeks.</p> <p>For ornamental trees and woody shrubs see below.</p>
RESTRICTIONS		
<ul style="list-style-type: none"> Do not apply more than a total of 23.3 fl oz of ALOFT GC SC as a broadcast application (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year. If the maximum season limit of ALOFT GC SC has been applied and pest populations require additional treatments, use another pesticide labeled for control of the targeted insects that does not contain clothianidin. You may use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lbs active ingredient per acre per year for use in lawns and perimeters. 		

Drench Application to Ornamental Trees and Woody Shrubs:

ALOFT GC SC can be used for systemic control of insects with an application to trees in landscapes adjacent to turf areas. **ALOFT GC SC** contains clothianidin which is systemic and will be translocated throughout the tree. Treat the area over the root zone of the trees or apply the insecticide around in the "root well" of the plant.

Apply the insecticide in enough water to get uniform coverage and water in after application. **ALOFT GC SC** is a systemic product and will be translocated upward into the plant system from root uptake. It must be placed in an area where the roots can absorb the active ingredient. It may take 2-4 weeks for the active ingredient to move from the root zone to the areas of the trees affected. If insect pests are already present and causing damage, consider making a foliar application and then following up with a drench application.

For ornamental trees and shrubs adjacent to turf areas, use 0.06 – 0.12 fl oz **ALOFT GC SC** per inch of cumulative trunk diameter (DBH) of the plant(s). For hedges six feet or less in height use 0.6 fl oz **ALOFT GC SC** per 100 linear feet of hedge. For hedges greater than six feet in height use an additional 0.15 fl oz per 100 linear feet of hedge for each foot of hedge height over six feet. Before application remove any plastic or other barriers that may prevent the insecticide from reaching the root zone of the plants.

*For Bronze Birch Borers, Flatheaded Borers and other borers (excluding Emerald Ash Borers and Asian Longhorned Beetles): Use a drench treatment around the trunk of the trees when the trees are actively growing. Mix 0.5 fl oz **ALOFT GC SC** in 10 gallons of water and apply 2 qts of the mixture per 1 inch DBH in a 1-2 ft area around the trunks of the trees.

For outdoor ornamentals, broadcast applications cannot exceed a total of 23.3 fl oz **ALOFT GC SC** per acre per year.

NON-BEARING FRUIT, INCLUDING APPLES AND PEARS, NUT TREES AND ORNAMENTAL TREES (IN LANDSCAPES WHICH ARE NOT INTENDED FOR USE IN COMMERCIAL PRODUCTION)

Apply **ALOFT GC SC** when threshold populations are observed. Do not wait until large insect populations have been established. For foliar applications, Apply **ALOFT GC SC** in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre. For soil applications, apply as a soil surface spray to the entire root zone or as a banded spray to the tree well area.

APPLICATION RATES (POST-BLOOM APPLICATION)		
PEST	APPLICATION RATE	
Aphids	<u>Soil application:</u> For trees under 6 feet tall 0.35 - 0.54 fl oz/1,000 sq ft	Foliar Application 5 – 15.5 fl oz per 100 gallons*
Adelgids		
Leafhoppers		
Plum curculio		
Apple maggot		
Codling moth ¹		
Oriental fruit moth ¹	<u>Soil Application:</u> For Trees over 6 feet tall 0.54 – 1.25 fl oz/1,000 sq ft	
Spotted tentiform leafminer ²		
Western tentiform leafminer ²		
Obliquebanded leafrollers		
Whiteflies (suppression) ²		
RESTRICTIONS		
<ul style="list-style-type: none"> Non-bearing fruit, including apples and pears, and nut trees in landscapes are only for ornamental use. FRUIT FROM THESE TREES ARE NOT TO BE USED AS FOOD AT ANY TIME. *The amount of ALOFT GC SC per acre will depend on tree size, pest pressure and the 		

volume of foliage present.

- Do not apply more than a total of 23.3 fl oz of **ALOFT GC SC** (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year.
- When using the rates for trees larger than 6 feet, apply only to the target root area as a surface spray or as a band treatment, do not apply more than 23.3 ounces per acre on the treatment site or property.
- ¹ To control Codling moth and Oriental fruit moth, apply **ALOFT GC SC** in a program of rotational sprays with other labeled insecticides. When using the foliar application rates of 8.0 – 15.5 fl. oz. per 100 gallons of **ALOFT GC SC** to control Codling moth and/or Oriental fruit moth, do not apply treatments less than a 14 day interval.
- For Foliar applications, apply **ALOFT GC SC** in a full coverage spray to the point of drip. The spray volume will depend on tree size and density of canopy. Repeat applications as needed to maintain control but do not apply more often than every 10 days.
- ² For control of leafminers and leafrollers, apply as a soil application in early Spring when the soil is not frozen. A foliar application may result in suppression only and a repeat foliar application may necessary to maintain control.
- Do not apply foliar treatments less than 10 days apart.
- Do not apply **ALOFT GC SC** through any type of irrigation system.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a cool, dry place away from excessive heat. Do not store near food, feed, fertilizers, seeds, or other pesticides. Keep this product out of reach of children and animals at all times. Store in original container only. Open the product container carefully and after use, seal tightly.

To contain a spill: Cover the spilled product to prevent the material from spreading. If the product container is damaged, place the entire container along with the product in a secure receptacle and clearly label the contents.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Non-refillable Containers equal to or less than 5 gallons:

Nonrefillable 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 and drain for 10 seconds after the flow begins to drip. 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. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-refillable Containers greater than 5 gallons:

Nonrefillable 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. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal.

Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

REFILLABLE CONTAINERS:

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

FOR 24-HOUR CHEMICAL EMERGENCY (Spill, Leak, Fire or Accident) ASSISTANCE:
Call CHEMTREC at 1-800-424-9300.

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Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

Arysta 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 described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, ARYSTA, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF ARYSTA, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT ARYSTA'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

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