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

UNITED STATES LONG

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Doina Bujor Arysta LifeScience North America Corporation 15401 Weston Parkway, Suite 150 Cary, NC 27513

DEC 5 2007

Dear Ms. Bujor:

Subject: Labeling Amendment; General Revisions ALOFT LC SC Insecticide EPA Registration No. 66330-366

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provision:

1. Delete all references to Emerald Ash Borers from the label. To have these pests added back on in the future, acceptable efficacy data must be submitted.

A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the referenced label, incorporating the above changes, before releasing the product for shipment. If you have any questions regarding this letter, please call me at (703) 306-0415.

Sincerely Kable Bo Davis

Entomologist Insecticide-Rodenticide Brach Registration Division (7505P)

Enclosure

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ALOFT[™] LC SC INSECTICIDE ____

GROUP 4A INSECTICIDE GROUP 3 INSECTICIDE

For contact and systemic insect pest control in lawns and landscape ornamentals around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields. Not for use on golf courses and sod farms.

INGREDIENTS

Active ingredients:	
Clothianidin*	24.70%
Bifenthrin**	
Other Ingredients:	
Total:	
*(E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine ** 2-methylbinbenyl-3-ylmethyl (1RS 3RS)-3-((Z)-2-chloro-3 3 3-trifluoronron-1-enyl)-2 (2_

dimethylcyclopropanecarboxylate (cis isomers 97% minimum, trans isomers 3% maximum)

Contains 2.22 lbs of Clothianidin and 1.1 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. 66330-366 EPA Est. No.

Produced for: Arysta LifeScience North America Corporation 15401 Weston Parkway, Suite 150 Cary, NC 27513

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

Net Contents:

ACCEPTED with COMMENTS Im EPA Letter Dated: DEC 5 2007

Under the Federal Insecticide, Fungleide, and Redenticide Act, as emerded, for the pesticide registered under EPA Reg. No. 66330 - 366

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	FIRST AID
If swallowed	 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	 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	 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.
lf on skin or clothing	 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.

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.

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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS.

WARNING: May be fatal if swallowed. Harmful if 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 (other than mixers and loaders) 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 gurn, or tusing tobacco.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on dean 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.

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ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not apply where runoff is likely to occur. 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 washwaters or rinsate.

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.

Do not apply by air.

Do not apply through any type of irrigation system.

Do not apply on the following: nurseries, commercial greenhouses, grass grown for seed, golf courses and sod farms.

Do not allow children or pets on treated surfaces until the spray has dried.

GENERAL INFORMATION

ALOFT LC SC is a broad spectrum, long lasting contact and systemic insecticide for control of insects infesting lawns and ornamentals in landscapes and surrounding areas. **ALOFT LC SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, cemeteries, arboretums, and non-production greenhouses.

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 LC 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 lawn 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 LC 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

The active ingredients in **ALOFT LC 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 of 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 lawn 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

ALOFT LC SC can be used for broad spectrum insect control in lawns and perimeters of lawns. **ALOFT LC SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, cemeteries and other similar areas.

ALOFT LC 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 season for use in lawns and perimeters.

ALOFT LC SC can be applied to lawns and perimeters at 11.65 – 23.3 fl oz per acre per year (0.27 – 0.54 fl oz/1000 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. Higher rates should be used when long residual control is desired for control of multiple insect pests or late season curative (rescue) applications are made to lawns already showing grub damage or damage by scavenging animals. Multiple applications can be made but do not exceed the maximum amount per year (23.3 fl oz/acre or 0.54 fl oz/1,000 sq ft). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other lawn experts for specific information concerning the timing of applications.

For early season control of insect pests (such as annual bluegrass weevil) and for control of white grubs, make the first application of **ALOFT LC 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 per acre (0.27 - 0.54 fl oz/1000 sq ft). For control of white grubs at standard application timing, apply 11.65-23.3 fl oz/Acre (0.27-0.54 fl oz/1,000 sq ft) just prior to peak adult activity or to early instar larvae.

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, 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/Acre (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/Acre per year (0.54 fl oz/1,000 sq ft) can be applied.

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

Avoid mowing until after irrigation or rainfall has occurred.

APPLICATION RATE	INSECT PEST	
0.27 - 0.54 fl oz per 1,000 sq ft	Annual Bluegrass Weevil (Adults) ¹	
(11.65 – 23.3 fl oz per acre)	Annual Bluegrass Weevil (Larvae) ¹	
	Ants, Nuisance (Excluding fire, harvester, pharaoh, and carpenter ants)	
	Armyworms	
	Billbugs ²	
	Black Turfgrass Ataenius ³	
	Chinch Bugs	
	Cutworms	
	European Crane Fly	
	Grasshoppers	
	Leafhoppers	
	Mole Crickets ⁴	
	Pillbugs	
· · ·	Sod webworms	
•	Sowbugs	
· · · · · · · · · · · · · · · · · · ·	Spittle bug	
	Sugarcane grub	
	White grubs (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern	
	Masked Chafer, Phyllophaga spp. (May or June	
	Beetle), Oriental Beetle, Southern Masked Chafer)	

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 before 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. White grubs will be controlled with an application targeted towards Annual Bluegrass Weevil.

- **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.
- ³ 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.
- ⁴ **Mole Crickets:** Application should be made 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 move the insecticide into the zone where the mole cricket are active.

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TURFGRASS AND PERIMETERS AROUND LAWNS

NOTES

- Do not apply more than a total of 23.3 fl oz of ALOFT LC SC (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per season.
- If the maximum season limit of ALOFT LC 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 season for use in lawns and perimeters.

APPLICATION INSTRUCTIONS - LANDSCAPE ORNAMENTALS

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

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

For control of 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	INSECT PEST		APPLICATION INSTRUCTIONS		
8 – 15 fl oz per 100 gallons of spray (12 –22.5 fl oz per acre based on 150 gallons of spray per acre)	Adelgids Aphids Azalea lace bug Bagworms Beetles Black Vine Weevils (Adults) California Red Scale (Crawlers) Cicadas (Adults) Caterpillars Citrus Thrips Diaprepes (Adults) Flea Beetles Florida wax scale Glassy winged sharpshooter	Gypsy Moth Caterpillars Japanese Beetles (Adults) Lace Bugs Leafhoppers Leafminers Leafrollers Mealybugs Pine Needle Scales (Crawlers) Plant Bugs (incl. <i>Lygus</i> spp.) Scales, Soft Tent Caterpillars White grubs Whiteflies	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. Repeat applications may be made if insects reappear, but do not exceed a total of 0.54 oz product per 1,000 sq ft of landscape.		

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LANDSCAPE ORNAMENTALS

NOTES

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- Do not apply more than a total of 23.3 fl oz of **ALOFT LC SC** (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per season.
- If the maximum season limit of **ALOFT LC 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 season for use in lawns and perimeters.

LANDSCAPE ORNAMENTALS				
SOIL SURFACE or MULCH APPLICATION	SOIL INSECT PEST		APPLICATION INSTRUCTIONS	
0.27 – 0.54 fl oz per 1,000 sq ft (11.65 – 23.3 fl oz per acre)	Ants, Nuisance (Excluding fire, harvester, pharaoh, and carpenter ants) Beet Armyworm Beetles Black Vine Weevils (Adults) Centipedes Crickets Cutworms Diaprepes (Adults) Earwigs Fall Armyworms Grasshoppers Millipedes	Pill Bugs 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)	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.	
SOIL SURFACE or MULCH APPLICATION	ABOVE GROUND INSECT PEST		APPLICATION INSTRUCTIONS	
0.34 – 0.54 fl oz per 1,000 sq ft (15 – 23.3 fl oz per acre)	Aphids Azalea lace bug Caterpillars Emerald Ash Borer Flea Beetles Florida wax scale Glassy winged sharpshooter Gypsy Moth Caterpillars Japanese Beetles (Adults)	Leafhoppers Leafminers Leafrollers Mealybugs Plant Bugs (incl. <i>Lygus</i> spp.) Root Weevils (incl. Black Vine Weevils) Scales, Soft Whiteflies	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.	

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LANDSCAPE ORNAMENTALS

NOTES

- Do not apply more than a total of 23.3 fl oz of **ALOFT LC SC** (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per season.
- If the maximum season limit of ALOFT LC 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 season for use in lawns and perimeters.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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.

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

Warranty and Disclaimer Statement

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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 Corporation ("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 NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS SUCH DAMAGES. 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.**

ALOFT™ is a trademark of Arysta LifeScience North America Corporation