

# Aloft<sup>®</sup> LC SC Insecticide

GROUP 4A INSECTICIDE

GROUP 3 INSECTICIDE

## ACTIVE INGREDIENTS:

Clothianidin\* ..... 24.70%  
Bifenthrin\*\* ..... 12.30%

OTHER INGREDIENTS: ..... 63.00%

TOTAL: ..... 100.00%

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.

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

\*\*2-methylbiphenyl-3-ylmethyl (1*RS*,3*RS*)-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 1.1 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 FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS**

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

Produced for:

**ARYSTA LIFESCIENCE NORTH AMERICA, LLC**

15401 Weston Parkway, Suite 150, Cary, NC 27513

EPA Registration No. 66330-366

EPA Est. No. 51036-GA-001<sup>(S)</sup>, 70815-GA-001<sup>(E)</sup>

Superscript corresponds to production site code

AD071608 102334

**NET CONTENTS: 16 fl oz**



<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>● Call poison control center or doctor immediately for treatment advice.</li> <li>● Have person sip a glass of water if able to swallow.</li> <li>● Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>● Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>● Move person to fresh air.</li> <li>● If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>● Call a poison control center or doctor for further treatment advice.</li> </ul>

*(continued)*

<b>FIRST AID</b> <i>(continued)</i>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

*(continued)*

## **FIRST AID** *(continued)*

**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 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. 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 and 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, or 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 per acre (0.27 – 0.54 fl oz/1000 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 per acre (0.27 – 0.54 fl oz/1000 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/1000 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.

<b>TURFGRASS AND PERIMETERS AROUND LAWNS</b>	
<b>APPLICATION RATE</b>	<b>INSECT PEST</b>
0.27 – 0.54 fl oz per 1,000 sq ft (11.65 – 23.3 fl oz per acre)	Annual Bluegrass Weevil (Adults) <sup>1</sup> Annual Bluegrass Weevil (Larvae) <sup>1</sup> Ants, Nuisance (Excluding fire, harvester, pharaoh, and carpenter ants) Armyworms
<p><sup>1</sup> <b>Annual Bluegrass Weevil:</b> Application can be timed for adult weevils as they move from their over-wintering sites into turf. This movement usually begins 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.</p>	

<b>TURFGRASS AND PERIMETERS AROUND LAWNS</b> <i>(continued)</i>	
<b>APPLICATION RATE</b>	<b>INSECT PEST</b>
0.27 – 0.54 fl oz per 1,000 sq ft (11.65 – 23.3 fl oz per acre)	Billbugs <sup>2</sup> Black Turfgrass Ataenius <sup>3</sup> Chinch Bugs Cutworms European Crane Fly Grasshoppers Leafhoppers
<p><sup>2</sup> <b>Billbugs:</b> 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.</p> <p><sup>3</sup> <b>Black Turfgrass Ataenius:</b> 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.</p>	

**TURFGRASS AND PERIMETERS AROUND LAWNS** *(continued)*

<b>APPLICATION RATE</b>	<b>INSECT PEST</b>
0.27 – 0.54 fl oz per 1,000 sq ft (11.65 – 23.3 fl oz per acre)	Mole Crickets <sup>4</sup> Pillbugs Sod webworms Sowbugs Spittle bug Sugarcane grub 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><b><sup>4</sup> Mole Crickets:</b> 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 to move the insecticide into the zone where the mole crickets are active.</p>	

## **TURFGRASS AND PERIMETERS AROUND LAWNS** *(continued)*

### **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.

<b>LANDSCAPE ORNAMENTALS</b>		
<b>FOLIAR APPLICATION</b>	<b>INSECT PEST</b>	
8 – 15.5 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

## LANDSCAPE ORNAMENTALS *(continued)*

### APPLICATION INSTRUCTIONS

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.

### 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 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** *(continued)*

<b>SOIL SURFACE or MULCH APPLICATION</b>	<b>SOIL INSECT PEST</b>	
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)

## **LANDSCAPE ORNAMENTALS** *(continued)*

### **APPLICATION INSTRUCTIONS**

#### ***SOIL INSECT PEST*** *(continued)*

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.

### **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.

**LANDSCAPE ORNAMENTALS** *(continued)*

<b>SOIL SURFACE or MULCH APPLICATION</b>	<b>ABOVE GROUND INSECT PEST</b>	
0.34 – 0.54 fl oz per 1,000 sq ft (15 – 23.3 fl oz per acre)	Aphids Azalea lace bug Caterpillars 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

## LANDSCAPE ORNAMENTALS *(continued)*

### APPLICATION INSTRUCTIONS

#### ***ABOVE GROUND INSECT PEST*** *(continued)*

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.

### 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**

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.

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**Warranty and Disclaimer Statement** *(continued)*

**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.**

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**Warranty and Disclaimer Statement** *(continued)*

**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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