

66330-367

12-28-2007

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

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

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

DEC 28 2007

Dear Ms. Bujor:

Subject: Labeling Amendment; Revised Directions for Use  
Aloft GC G Insecticide  
EPA Registration No. 66330-367  
Submission Date: December 12, 2007

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions regarding this label, please contact me at (703) 306-0415.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", written over a horizontal line.

Kable Bo Davis  
Entomologist  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

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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.

**ALOFT™ GC G  
INSECTICIDE**

<b>GROUP</b>	<b>4A</b>	<b>INSECTICIDE</b>
<b>GROUP</b>	<b>3</b>	<b>INSECTICIDE</b>

For contact and systemic insect pest control in turf and landscape ornamentals on golf courses, lawns and landscape ornamentals 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 NASSAU COUNTY OR SUFFOLK COUNTY, NEW YORK.**

<b>INGREDIENTS</b>	<b>By wt.</b>
<b>Active Ingredients:</b>	
Clothianidin*	0.25%
Bifenthrin**	0.125%
<b>Other Ingredients</b>	<u>99.625%</u>
<b>Total</b>	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)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

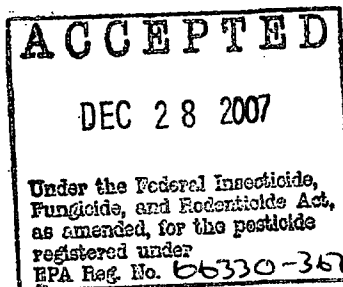
See inside booklet for additional precautionary statements

EPA Registration No. 66330-367  
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:



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<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>
<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>
<p><b>NOTE TO PHYSICIAN:</b> 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>	
<b>HOTLINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE:</b> CALL PROSAR at 1-866-303-6952.</p>	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wear: long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves (such as Natural Rubber, Selection Category A).

### 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
- protective eyewear

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.

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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.

Apply using ground equipment only; do not apply by air.

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: 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 use 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 dust has settled.

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## GENERAL INFORMATION

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

## RESISTANCE MANAGEMENT

The active ingredients in **ALOFT GC G** 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 in the same group 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 EQUIPMENT

Apply **ALOFT GC G** uniformly over the area being treated with standard granular application equipment. Use either drop-type or rotary-type spreaders to apply **ALOFT GC G**.

Avoid the use of spreaders which would apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately. In order to insure continuing delivery of the correct amount of **ALOFT GC G** further adjustments to the settings should be made periodically during application.

## APPLICATION INSTRUCTIONS – TURFGRASS AND PERIMETERS AROUND LAWNS AND LANDSCAPED AREAS

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

**ALOFT GC G** 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 160 lbs of product (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per year. Note: You may also use

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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 G** can be applied to turf at 80 - 160 lbs per acre per year (1.8 - 3.6 lbs/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 turf already showing grub damage or damage due to scavenging of animals. Multiple applications can be made but do not exceed the maximum amount per year (160 lbs/acre or 3.6 lbs/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 control of white grubs, make the first application of **ALOFT GC G** at peak adult activity or when other insect pests reach a damaging population in the spring at a rate of 100 - 160 lbs per acre (2.3 - 3.6 lbs/1000 sq ft). For control of white grubs at standard application timing, apply 80 - 160 lbs per acre (1.8 - 3.6 lbs/1000 sq ft) just prior peak adult activity or to early instar larvae.

For control of surface insects, do not water in until at least 24 hours after application. If the target insects are in the thatch, lightly water in after application with enough water to wet the thatch zone. For control of armyworms, cutworms and other surface feeders, apply 80 - 160 lbs per acre (1.8 - 3.6 lbs/1000 sq ft) at the first sign of insects or insect damage. Repeat the application as needed to control additional flushes of insects. Up to a total of 160 lbs per acre per year (3.6 lbs/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 turfgrass until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

<b>TURFGRASS AND PERIMETERS AROUND LAWNS</b>	
<b>APPLICATION RATE</b>	<b>INSECT PEST</b>
1.8 - 3.6 lbs per 1,000 sq. ft. (80-160 lbs 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 Billbugs <sup>2</sup> Black Turfgrass Ataenius <sup>3</sup> Chinch Bugs Cutworms European Crane Fly Grasshoppers Leafhoppers Mole Crickets <sup>4</sup> Pillbugs Sod webworms Sowbugs Spittle bug Sugarcane grub White grubs (Asiatic Garden Beetle, European Chafer, Green June

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<b>TURFGRASS AND PERIMETERS AROUND LAWNS</b>	
	Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)
<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 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.</p> <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> <p><sup>4</sup> <b>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 after application to release the insecticide from the granule carrier.</p>	
<p><b>NOTES</b></p> <ul style="list-style-type: none"> <li>Do not apply more than a total of 160 lbs of <b>ALOFT GC G</b> (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per season.</li> <li>If the maximum season limit of <b>ALOFT GC G</b> 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.</li> </ul>	

**APPLICATION INSTRUCTIONS - LANDSCAPE ORNAMENTALS**

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

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.

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LANDSCAPE ORNAMENTALS			
SOIL SURFACE or MULCH APPLICATION	SOIL INSECT PEST		APPLICATION INSTRUCTIONS
1.8 – 3.6 lb per 1,000 sq ft (80 – 160 lb 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	Pillbugs 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 application 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
3.0 – 3.6 lb per 1,000 sq ft (132 - 160 lb 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	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.
<b>NOTES</b>			
<ul style="list-style-type: none"> <li>Do not apply more than a total of 160 lbs of <b>ALOFT GC G</b> (0.4 lb of clothianidin active ingredient, 0.2 lb bifenthrin) per acre per season.</li> <li>If the maximum season limit of <b>ALOFT GC G</b> 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.</li> </ul>			

When treating perimeters of structures, make the application to the ground from 5-10 feet adjacent to the structure.



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FOR PERIMETER APPLICATIONS									
Appl. Rate: Lbs/1,000 sq ft	Band Width in Feet	Lbs. of ALOFT GC G/ Linear Distance (Feet) Around Structure							
		100	150	200	250	300	400	500	1,000
1.8	5	1.0	1.5	2.0	2.5	3.0	4.0	5.0	10.0
1.8	10	2.0	3.0	4.0	5.0	6.0	8.0	10.0	20.0
2.8	5	1.4	2.0	2.8	3.5	4.2	5.6	7.0	14.0
2.8	10	3.0	4.5	6.0	7.5	9.0	12.0	15.0	30.0
3.6	5	2.0	3.0	4.0	5.0	6.0	8.0	10.0	20.0
3.6	10	3.6	5.4	7.2	9.0	10.8	14.4	18.0	36.0

**NOTE:** This table provides amounts which include the total area to be treated. This area includes the area of a circle whose radius is the bandwidth (this accounts for the area treated at the four corners of the structure) plus the linear distance treated times the bandwidth.

**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:**  
Paper and plastic bags: Completely empty bag into application equipment. Then 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.

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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 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 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.**

ALOFT is a trademark of Arysta LifeScience North America Corporation.