

432-1416

5/1/2011

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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION



Norma Pangilinan Ph.D.  
Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27709

Dear Dr. Pangilinan:

Subject: Amendment: Comply with Agency pyrethroid labeling letter dated June 4, 2009,  
Add Resistance Management Recommendations,  
Add Mode of Action classification box, and  
Add Bayer CropScience legal statement  
Allectus GC Granular Insecticide  
EPA Reg. No. 432-1416  
Your submission dated May 24, 2010

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) section 3(c)(7)(a), is acceptable and a stamped copy of the label is enclosed for your records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions regarding this letter, please contact Dana Pilitt, PhD of my staff at (703) 305-7071 or via e-mail at [pilitt.dana@epa.gov](mailto:pilitt.dana@epa.gov).

Sincerely,

Richard Gebken  
Product Manager 10  
Insecticide Branch  
Registration Division (7505P)

**RESTRICTED USE PESTICIDE**  
 Due To Toxicity 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 the Certified Applicator's certification.

GROUP	3	4A	INSECTICIDE
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# ALLECTUS® GC GRANULAR Insecticide

For general insect control in turfgrass areas of golf courses and sod farms.

**ACTIVE INGREDIENT:**

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	0.20%
Bifenthrin**	0.16%

OTHER INGREDIENTS:	99.64%
	100.00%

**EPA Reg. No. 432-1416**

**EPA Est. No. \_\_\_\_\_**

\*\* Cis isomers 97% minimum, trans isomers 3% maximum.

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

ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated  
 MAY - 1 2011  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
 432-1416

**STOP - READ THE LABEL BEFORE USE.  
 KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

For **MEDICAL** and **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
 For **PRODUCT USE** Information Call 1-800-331-2867

FIRST AID	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>Call a 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 a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for 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 to 20 minutes. 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>
<p>In case of emergency call toll free the Bayer Environmental Science Emergency Response Telephone No. 1-800-334-7577. Have a product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	
<p><b>Note To Physician:</b> No specific antidote is available. Treat the patient symptomatically.          This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.</p>	

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

### Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber nitrile, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

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

### User Safety Recommendation

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas. 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. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**Do not formulate this product into other end-use products.**

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber nitrile, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENT

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides above. Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact the Bayer Environmental Science Emergency-Response Team for decontamination procedures or any other assistance that may be necessary. The Bayer Environmental Science Emergency Response Telephone No. is 1-800-334-7577 or contact Chemtrec at 800-424-9300.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling, if available, or dispose of empty bag in a sanitary landfill, by incineration.

### GENERAL INFORMATION

#### APPLICATION TO TURFGRASS

ALLECTUS<sup>®</sup> GC GRANULAR can be used for the control of soil inhabiting pests of turfgrass, such as northern and southern masked chafers, *Cyclocephala borealis*, *C. immaculata*, and/or *C. lurida*; Asiatic garden beetle, *Maladera castanea*; black vine weevil, *Otiorhynchus sulcatus*, European chafer, *Rhizotrogus majalis*; green June beetle, *Cotinis nitida*; May or June beetles, *Phyllophaga* spp.; Japanese beetle, *Popillia japonica*; oriental beetle, *Anomala orientalis*; *Euethoala humulis rugiceps*; billbugs, *Sphenophorus* spp.; annual bluegrass weevil, *Listronotus maculicollis*; black turfgrass ataenius, *Ataenius spretulus*; *Aphodius* spp; Crane flies, *Tipula* spp.; frit fly, *Oscinella frit*; chinch bugs, *Blissus* spp.; fire ants, *Solenopsis* spp.; cutworms, *Agrotis ipsilon*, *Peridroma saucia*, *Nephalodes menians*; armyworms, *Spodoptera* spp., *Pseudaletia* spp.; sod webworm, *Crambus* spp.; and mole crickets, *Scapteriscus* spp. ALLECTUS GC GRANULAR can be used as directed on turfgrass on golf courses and sod farms.

The active ingredients ALLECTUS GC GRANULAR have sufficient residual activity so that applications for control of subsurface feeders can be made preceding the egg laying activity. The need for an application for control of subsurface feeders can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Optimum control of subsurface feeders will be achieved when applications are made prior to egg hatch of the target pest, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

The active ingredients in ALLECTUS GC GRANULAR have sufficient knockdown and residual activity to provide curative and residual control of surface feeding pests. Applications for control of surface feeding pests can be made when infestations are anticipated based on historical monitoring of the site, previous records or experience, current season adult trapping or presence of insects at economic thresholds as determined by scouting and/or recommendations of local State extension personnel or other qualified specialists.

Applications should not be made when turfgrass areas are waterlogged or the soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treated turf must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile. Total amount applied cannot exceed 250 lb (0.5 lb of imidacloprid, 0.4 lb of bifenthrin) per acre per year.

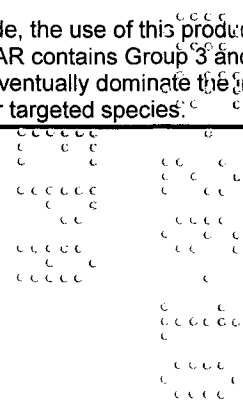
**NOTE:** Not for use in commercial greenhouses or on grass grown for seed.

#### APPLICATION EQUIPMENT

Apply ALLECTUS GC GRANULAR uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply ALLECTUS GC GRANULAR. Avoid the use of spreaders that 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.

### Resistance Management Recommendations

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product should conform to resistance management strategies established for the use area. ALLECTUS GC GRANULAR contains Group 3 and 4A insecticides. Insect biotypes with acquired or inherent resistance to Group 3 and 4A insecticides may eventually dominate the insect population if Group 3 and 4A insecticides are used repeatedly as the predominant method of control for targeted species.



**RECOMMENDED APPLICATIONS**

(Be sure to read "APPLICATION EQUIPMENT" Section of this label)

CROP	PEST	DOSAGE ALLECTUS GC GRANULAR
Turfgrasses	<b>Larvae of subsurface feeders:</b> Green June beetle Asiatic garden beetle Japanese beetle Black-turfgrass-ataenius Northern masked chafer Black vine weevil Oriental beetle European chafer <i>Phyllophaga</i> spp. European crane fly Southern masked chafer	100 to 125 lb per acre (2.3 to 2.9 lb per 1000 sq ft)
	<b>Adults and/or larvae of subsurface and surface pests:</b> Centipedes Fleas Millipedes Ticks Imported Fire ants Mole crickets Pillbugs Sowbugs	75 to 125 lb per acre (1.7 to 2.9 lb per 1000 sq ft) or for heavy infestations, a single annual application of 200 to 250 lb per acre (4.6 to 5.7 lb per 1000 sq ft)
	<b>Adults and/or larvae of surface feeders:</b> Annual bluegrass weevil Leafhoppers Billbugs Mealybugs Chinch bugs Nuisance ants	75 to 125 lb per acre (1.7 to 2.9 lb per 1000 sq ft)
	<b>Larvae of surface feeders:</b> Armyworm Cutworm Sod webworms	50 to 125 lb per acre (1.1 to 2.9 lb per 1000 sq ft)

Consult your local State Agricultural Experiment Station, or State Extension Turf Specialists for more specific information regarding timing of application.

NOTE: For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. Do not apply more than 250 lb product (0.5 lb of imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year. Avoid mowing turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, make a single repeat application of ALLECTUS GC GRANULAR if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

**Annual Bluegrass Weevil (*Listronotus maculicollis*) adults:** Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (*Cornus florida*) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

**Annual Bluegrass Weevil (*Listronotus maculicollis*) larvae:** For best results, applications should be made at the first sign of wilting of bluegrass. For the first generation, this wilting often occurs after full bloom of flowering dogwood (*Cornus florida*).

**Armyworms, Cutworms and Sod Webworms:** If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (up to 2.9 lb per 1000 sq ft) may be required during periods of high pest pressure.

**Billbug adults:** Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

**Chinch Bugs:** Chinch bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Chinch bugs can be one of the most difficult pests to control in grasses and the higher application rates (Up to 2.9 lb per 1000 sq ft) may be required to control populations that contain both nymphs and adults during the middle of the summer.

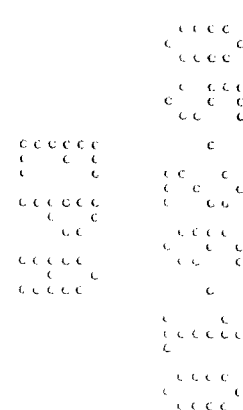
**Imported Fire Ants:** Apply as a broadcast treatment up to 5.7 lb per 1000 sq ft. For mound treatment, apply 1/2 cup of ALLECTUS GC GRANULAR per mound and then drench the mound with 1 to 2 gallons of water. The mounds should be treated with sufficient force to break their apex and allow the insecticide to flow into the ant tunnels.

**Mole Cricket adults:** Achieving acceptable control of adult mole crickets is difficult because grass areas are subject to continuous invasion during the early spring by this large active stage. For application when both adults and/or large nymphs are present and actively tunneling, irrigate prior to application if soil is dry and apply 2.9 lbs per 1000 sq ft. Applications should be watered in with up to 0.5 inches of water immediately after treatment. Grass areas that receive pressure from adult mole crickets should be treated within one month of peak egg hatch to ensure optimum control of subsequent nymph populations (see below). For heavily infested mole cricket areas, or in areas with a history of mole cricket infestation, use a single seasonal application rate of 200 to 250 lb per acre (4.6-5.7 lb per 1000 sq ft).

**Mole Cricket nymphs:** Grass areas that received adult mole cricket pressure in the spring should be treated within one month of peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides. Control of larger, more damaging, nymphs later in the year will require higher application rates to maintain acceptable control. For maximum effectiveness, irrigate prior to application if soil is dry, apply as a broadcast treatment at 2.9 lb per 1000 sq ft. Applications should be watered in with up to 0.5 inches of water after treatment. For heavily infested mole cricket areas, or in areas with a history of mole cricket infestation, use a single seasonal application rate of 200 to 250 lb per acre (4.6-5.7 lb per 1000 sq ft).

**Pillbugs and sowbugs:** For heavy infestations apply 250 lbs per acre (5.7 lbs per 1000 sq ft) of ALLECTUS GC GRANULAR.

**Ticks (Including ticks that may transmit Lyme disease and Rocky Mountain spotted fever):** Treat the entire area where exposure to ticks may occur. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Repeat application should be limited to no more than once per seven days. Deer ticks (*Ixodes* spp.) have a complicated life cycle that ranges over a two year period and involves four life stages. Applications should be made 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 variabilis*) may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.



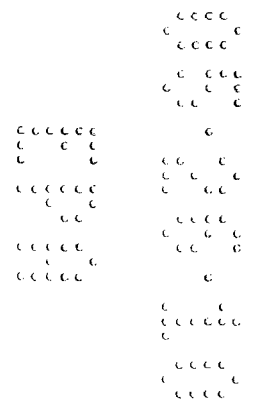
**Spreader settings for ALLECTUS GC**

The following chart can be used as a guide in establishing an accurate rate of ALLECTUS GC GRANULAR. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully calibrate application equipment prior to commercial use of this product.

SPREADER	SPEED (mph)	SETTINGS	
		50 lb/A	100 lb/A
Cyclone Way	3	1.53	4
Lely	4.5	3 ¼	4 ¼
Lesco Broadcast	3	C	D
PSB Prizelawn CBR-III	3	3	3 ½
Scott's Proturf R-8A	3	H	J
Scott's Proturf SR-2000	3	I	K
Scott's Handy Green (obsolete)	3	2	3
Scott's Accupro	3	4 ½	4-3/4
Spyker	3	3.0	3.4
Vicon Model 402	4.5	11	14

**RESTRICTIONS**

- Avoid runoff or puddling of irrigation water following application. Avoid application of ALLECTUS GC GRANULAR to areas which are waterlogged or saturated, which will not allow penetration into the root zone of the plant. Do not apply more than 250 lb (0.5 lb of imidacloprid and 0.4 lb of bifenthrin) per acre per year.
- Treated areas may be replanted with any crop specified on an imidacloprid and bifenthrin label, or with any crop for which a tolerance exists for the two active ingredients.
- For crops not listed on any imidacloprid and any bifenthrin label, or for crops for which no tolerances for the active ingredients have been established, a 12-month plant-back interval should be observed.
- Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes, or natural ponds, estuaries, and commercial fish farms ponds.
- Do not apply by air.
- Not for use in nurseries or commercial greenhouses.
- Apply this product directly to the lawn or garden area. Water treated area as directed on this label.
- Do not water to the point of run-off. Do not make applications during rain.
- 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.



**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Bayer CropScience LP's control it is impossible for Bayer CropScience LP to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Bayer CropScience LP disclaims any liability whatsoever for special, incidental or consequential damages, resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

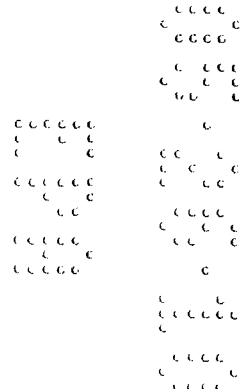
ALLECTUS GC GRANULAR INSECTICIDE is specially formulated and sold by Bayer Environmental Science for the control of selected insects according to the directions on this label. Uses of ALLECTUS GC GRANULAR INSECTICIDE other than those specified on this label are not licensed or otherwise authorized through the purchase of this product and the use of this product for other purposes including research and/or experimental uses are expressly prohibited.

PRODUCED FOR



**Bayer Environmental Science**

**A Division of Bayer CropScience LP  
2 T. W. Alexander Drive  
Research Triangle Park, NC 27709**



Allelectus GC G (MASTER) Approved 10/31/06, Notification 04/17/09, Notification 05/17/10