

66330-281

7/20/2009

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



OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

July 20, 2009

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

Subject: Label Notifications per Pesticide Registration Notices 2007-4 and 98-10

Dear Mr. Washburn:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10, dated June 19, 2009 for:

- \* • **EPA Registration 66330-281; Chlorpyrifos 15G Granular Insecticide**
- **EPA Registration 66330-302; Chlorpyrifos 61.5% MUP**

The Registration Division (RD) has conducted a review of these requests for applicability under PR Notices 2007-4 and 98-10, and finds that the label changes requested fall within the scope of PR Notices 2007-4 and 98-10. The labels have been date-stamped "Notification" and will be placed in our 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, please contact me directly at 703-308-8735 or email me at [chao.julie@epa.gov](mailto:chao.julie@epa.gov).

Sincerely,

A handwritten signature in cursive script, reading "Julie A. Chao".

Julie A. Chao  
Insecticide-Rodenticide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

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 <b>EPA</b> United States Environmental Protection Agency Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other:	OPP Identifier Number
<b>Application for Pesticide - Section I</b>			
1. Company/Product Number <b>66330-281</b>		2. EPA Product Manager <b>VENUS EAGLE</b>	
4. Company/Product (Name) <b>CHLORPYRIFOS 15G GRANULAR INSECTICIDE</b>		3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted	
5. Name and Address of Applicant (Include ZIP Code)  <b>Arysta LifeScience North America, LLC</b> <b>15401 Weston Parkway, Suite 150</b> <b>Cary, NC 27513</b>  <input type="checkbox"/> Check if this is a new address		6. <b>Expedited Review.</b> In accordance with FIFRA Section 3(c)(3) (b)(I), my product is similar or identical in composition and labeling to: <div style="text-align: right;"><b>NOTIFICATION</b></div> EPA Reg. No. _____  Product Name <u>JUL 20 2009</u>	
<b>Section - II</b>			
<input type="checkbox"/> Amendment - Explain below. <span style="float: right;"><input type="checkbox"/> Final printed labels in response to Agency letter dated _____</span> <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <span style="float: right;"><input type="checkbox"/> "Me Too" Application</span> <input checked="" type="checkbox"/> Notification - Explain below. <span style="float: right;"><input type="checkbox"/> Other - Explain below</span>			
<b>Explanation:</b> Use additional page(s) if necessary. (For Section I and Section II.) <b>Notification of label change per PR Notice 2007-4.</b> This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. <b>Notification of label change per PR Notice 98-10.</b> This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.			
<b>Section - III</b>			
1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt.      No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt.      No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
*Certification must be submitted			
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container <div style="text-align: center;">5 lb., 10 lb., and 20 lb.</div>	
		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other _____ <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			
<b>Section - IV</b>			
1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)			
Name <b>Bill Washburn</b>		Title <b>Regulatory Manager</b>	
		Telephone No. (Include Area Code) <b>801-432-5118</b>	
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped)
2. Signature 		3. Title <b>Regulatory Manager</b>	
4. Typed Name <b>Bill Washburn</b>		5. Date <b>06/19/09</b>	



June 19, 2009

Ms. Venus Eagle  
Product Management Team 1  
Fungicide-Herbicide Branch (H7505C)  
Registration Division  
Office of Pesticide Programs  
Document Processing Desk (NOTIF)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Subject: CHLORPYRIFOS 15G GRANULAR INSECTICIDE  
EPA Reg. No. 66330-281**

***Notification of Label Change per PR Notice 2007-4  
and PR Notice 98-10***

Dear Ms. Eagle:

Please find the following enclosed:

- Application for Pesticide Registration (Other) dated 06/19/09.
- One highlighted copy of subject label, showing all changes.
- One clean copy of the subject label.

Notification of label change per PR Notice 2007-4. This notification is consistent with guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 USC Sec 1001 to willfully make any false statement to EPA. I further understand that if the amendment is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Also in this submission, we are using PR Notice 98-10 to update the name of the company, emergency telephone numbers and warranty. Arysta LifeScience North America Corporation was changed to Arysta LifeScience North America, LLC.

Should you have any questions or comments, please do not hesitate to contact me at 901-432-5118 or by e-mail at [bill.washburn@arystalifescience.com](mailto:bill.washburn@arystalifescience.com)

Sincerely,

Bill Washburn  
Regulatory Manager

Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150, Cary, NC 27513 Phone 919-678-4900 Fax 919-678-2194  
[www.arystalifescience.com](http://www.arystalifescience.com)

**NOTIFICATION****JUL 20 2009**66330-281 AD121907  
PR Notice 2007-4

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**CHLORPYRIFOS 15G  
GRANULAR INSECTICIDE**

For Control of various insects infesting certain field and vegetable crops

**ACTIVE INGREDIENT(S):**

Chlorpyrifos: O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl)phosphorothioate ..... 15.0%

**INERT INGREDIENT(S)** ..... 85.0%**TOTAL** ..... 100.0%**KEEP OUT OF REACH OF CHILDREN  
CAUTION      PRECAUCION**

<b>FIRST AID</b>	
<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 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>
<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 mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>Organophosphate NOTE TO PHYSICIAN</b> Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration.	
<b>HOT LINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. <b>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE:</b> Call PROSAR at 1-866-303-6952 or 1-651-632-8946 if calling from outside of the U.S.  <b>FOR 24-HOUR CHEMICAL EMERGENCY ASSISTANCE:</b> Spill, leak, fire, exposure, or accident Call CHEMTREC at 1-800-424-9300 or 1-703-527-3887 if calling from outside of the U.S.	

EPA Reg. No. 66330-281  
EPA Est. No. 51036-GA-001  
AD121907**Manufactured For:**  
**Arysta LifeScience North America, LLC**  
**15401 Weston Parkway, Suite 150**  
**Cary, NC 27513****NET CONTENTS:** \_\_\_\_\_

50415

**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, and clothing. Avoid breathing dusts.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are barrier laminates and Viton. If you want more options, follow the instructions for category H on an EPA chemical resistance category selection chart.

Loaders, Applicators and all other handlers must wear:

1. coveralls over Long-sleeved shirt and long pants
2. Chemical-resistant gloves
3. Chemical-resistant footwear plus socks
4. A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator any N, R, P, or HE filter.

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

**USER SAFETY RECOMMENDATIONS**

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. 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.

**ENGINEERING CONTROLS**

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When applicators use closed cab equipment in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

**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 requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not enter or allow entry into treated areas during the restricted entry interval (REI). The REI for each crop is listed in the directions for use associated with each crop.

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**Preharvest interval restrictions:**

Crop	PHI*
Broccoli	7
Cabbage	7
Cauliflower	21 – 30
Chinese cabbage	
Citrus Fruits	21
Field Corn, Sweet Corn (including corn grown for seed)	7
Kale	7
Kohlrabi	7
Onions (dry Bulb)	7
Peanuts	14
Radishes	7
Rutabagas	7
Soybeans	7
Sugar Beets	7
Sunflowers	7
Sweet Potatoes	7
Turnips	7

\*PHI = Pre-Harvest Interval or the number of days to wait between the last application and harvest.

Aerial application to peanuts is prohibited.

Do not apply by aircraft at a rate greater than 1 lb. ai/A.

Read all Directions for Use carefully before applying.

**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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

This product may only be formulated for the agricultural uses listed below if the EPA-approved labeling of the formulated product bears worker restricted entry intervals (REI) of a duration no less than the following:

For all crops: 24 hours, unless specifically noted below

- Cauliflower: 3 days
- Sweet Potatoes: 2 days

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:

1. Coveralls over short sleeved shirt and short pants
2. Chemical resistant gloves made out of any waterproof material
3. Chemical resistant footwear plus socks
4. Chemical resistant headgear for over head exposures

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**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.

**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:** Nonrefillable 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.

**APPROVED USES****CORN****Field Corn, Sweet Corn (including corn grown for seed)**

Chlorpyrifos 15G is compatible with all ALS inhibitor herbicides applied in accordance with label recommendations.

**At-Plant T-Band Application**

Apply 8 oz of Chlorpyrifos 15G per 1000 ft of row as a T-band over an open seed furrow over the row behind the planter shoe, in front of the press wheel. In conventional and minimum-till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. A soil applied T-band treatment may be followed by post-applied herbicides. Chlorpyrifos 15G has demonstrated suppression of certain soil-borne pathogens that may result in physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with Chlorpyrifos 15G.

**At-Plant In-Furrow Application**

Apply 8 oz of Chlorpyrifos 15G per 1000 ft of row at planting as an in-furrow treatment in conventional, minimum and no-till corn. Direct the granules into the planter shoe with the seed, or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow, or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil.

**Postplant Application**

To control corn rootworm larvae, apply 8 oz of Chlorpyrifos 15G per 1000 ft of row at cultivation by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and covering the granules with soil. To control European and southwestern corn borer larvae, apply Chlorpyrifos 15G in a band over the row so that the granules are directed into the whorl or use a postplant broadcast treatment. Consult your state agricultural experiment station or extension service specialist for proper time to treat and local threshold information. Scouting for insect damage is strongly encouraged.

**Postplant Broadcast Application**

To control European and southwestern corn borers, apply Chlorpyrifos 15G by uniformly broadcasting the granules over the corn plants by aerial application or by applying the granules into the corn whorls by ground application. For aerial applications, do not apply within 150 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Apply at a rate of 5 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

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Pests Controlled	Banded/In furrow Applications (oz/1000feet of row)			Aerial Broadcast Application (lb/acre)
	At-Plant Applications		Postplant Application	
	T-Band	In-Furrow		
armyworms	-	-	6 - 8	-
billbugs	8	-	-	-
chinch bug (1)	8	8	-	-
cutworms (1)	8	8	-	-
European and southwestern corn borer (3)				
1st Generation	-	-	3.5 - 8	5 - 6.5
2nd Generation	-	-	6 - 8	6.5
grubs	8	8	-	-
lesser cornstalk borer	8	-	-	-
northern and western corn rootworm larvae	8	8	8	-
seed corn beetle	8	8	-	-
seed corn maggots	8	8	-	-
southern corn rootworm larvae	8	8	8	-
symphylans	8	-	-	-
wireworms (2)	8	8	-	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

#### Pest-Specific Use Directions:

1. **Cutworms, fire ants and chinch bugs:** The 8 oz rate provides suppression only for in-furrow treatments.
2. **Wireworms:** For best control, apply as an in-furrow treatment. Consider using a hopper box insecticidal seed treatment with T-band applications.
3. **European corn borer:** When using postplant banded applications, use rates of 3.5 to 4 oz of Chlorpyrifos 15G per 1000 feet of row for low to moderate first generation infestations before larvae have entered corn stalks. Use application rates of 6 to 8 oz of Chlorpyrifos 15G per 1000 feet of row for severe first generation infestations and all second generation infestations before larvae have entered corn stalks.

#### Specific Use Restrictions:

- **Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.
- **Preharvest Interval:** Do not apply within 21 days before harvest of grain or ears.
- Do not allow meat or dairy animals to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment.
- Do not apply by aircraft at a rate greater than 1 lb ai per acre.
- Do not make more than 1 at-plant application and 1 foliar application of Chlorpyrifos 15G per season at the 1 lb ai chlorpyrifos rate.
- Do not make more than 3 applications of any product containing chlorpyrifos per season, including the maximum allowed of 2 granular applications, at the 1 lb ai chlorpyrifos rate. Re-treatment with a second soil application of Chlorpyrifos 15G is allowed under replant situations due to loss of crop during establishment. Do not apply more than a total of 3 lb ai chlorpyrifos per acre per season.
- Do not make a second application of Chlorpyrifos 15G or other product containing chlorpyrifos within 10 days of the first application.

- Maximum single application rate for at-plant applications is 8 oz of Chlorpyrifos 15G per 1000 ft of row (1.3 lb ai chlorpyrifos per acre).
- Maximum single application rate for postplant applications is 6.5 lb of Chlorpyrifos 15G (1 lb ai chlorpyrifos) per acre.
- If more than 1 lb ai granular chlorpyrifos per acre is applied at-plant (for a maximum of 1.3 lb ai per acre per season), only 1 additional application of a liquid product containing chlorpyrifos at 1 lb ai per acre is allowed per season, for a total of 2.3 lb ai chlorpyrifos per acre per season

## CITRUS GROVE FLOORS

**Pests Controlled:** Ants (excluding fire, harvester, pharaoh and carpenter)

Maximum Number of Applications per Season: 3

Maximum amount a.i. to be applied per acre per season: 3 lbs. ai/A

### Postplant Broadcast Treatment:

To control foraging ants and suppress mounds, apply Chlorpyrifos 15G with ground application equipment. use a suitable granular applicator, such as a cyclone fertilizer spreader, that will uniformly broadcast the granules over the grove floor. Retreat as needed. Chlorpyrifos 15G may be custom blended with granular fertilizers provided that application of the blended Chlorpyrifos 15G/fertilizer mixture can be applied uniformly to the grove floor. Do not apply where weed growth or other obstructions would impede uniform coverage of the grove floor.

### Restrictions

Do not apply more than 20 pounds of Chlorpyrifos 15G per acre per crop season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas. Restricted Entry Interval (REI) is 24 hours.

## SORGHUM/MILO

### Application Rates and Pests Controlled

Pests Controlled	Banded Applications At Plant Treatments (Ounces per 1,000 Feet of Row)	
	T-Band	Band
lesser cornstalk borer	4 to 12	4 to 12
corn rootworm and cutworms	8	8
chinch Bug*	8	-

### At Plant T-Band or Band Treatments:

Apply in a 6 to 8 inch band over the row and incorporate into the top 1-inch of soil using suitable equipment. Equivalent rates of Chlorpyrifos 15G per acre for various row spacings are given in Table 1. Use the lowest rate for lesser cornstalk borer control when protection is desired for 2 to 3 weeks and higher rates for longer residual activity. It is absolutely necessary to incorporate the granules, especially at lower rates.

### Restrictions:

Do not make more than one application per crop season.

## ONIONS - (Dry Bulb)

**Pests Controlled:** onion maggot

Application Rate: 3.7 ounces per 1,000 feet of row at an 18-inch row spacing

### At Plant In-Furrow Treatment:

Apply as an at planting in-furrow treatment. In Colorado, Idaho, Washington and Oregon, to control onion maggots in

onions planted in double rows with rows spaced 2 to 4 inches apart, apply Chlorpyrifos 15G at the rate of 3.7 oz per 1,000 feet of double row. Place the granules in a 5 to 7 inch wide band over both rows behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Do not exceed 6.7 lb per acre.

**Restrictions:**

Do not make more than one application per year.

**PEANUTS**

Use Chlorpyrifos 15G to control cutworms, lesser cornstalk borer, southern corn rootworm larvae, suppress wireworms, and inhibit the growth and development of white mold (southern blight) disease caused by *Sclerotium rolfsii*. Chlorpyrifos 15G will control only those cutworms existing in the soil from the time of application up to 30 days following application.

**Application Rates and Pests Controlled**

Pests Controlled	Banded Applications (Ounces per 1,000 Feet Row)		Aerial Broadcast (lb/acre)
	At Plant Treatment	Post Plant Treatment	
*Preventative treatments: cutworms lesser cornstalk borer southern corn rootworm larvae wireworms white mold (southern blight)	7.5 to 15	7.5 to 15	-
**Rescue treatments: lesser cornstalk borer	-	7.5 to 15	10 to 13
Burrowing Bug	-	-	13.3

**\* At Plant Preventative Treatment:**

Apply Chlorpyrifos 15G in a 6 to 12 inch band over the row behind the planter shoe and in front of the press wheel. Incorporate granules to a depth of 1-inch with tines or chains or other suitable equipment. If the 7.5 oz rate is used at planting time, then another application of 7.5 oz per 1,000 feet of row should be made postplant to extend control.

**\* Postplant Preventative Treatment:**

Apply Chlorpyrifos 15G to peanuts at early flowering to pegging stage of growth in a 6 to 8 inch band over the row. For extended insect control and continued suppression of white mold (southern blight), a second application of Chlorpyrifos 15G may be made. Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz. per 1,000 feet of row for each postplant treatment. Irrigation or rain following application is needed to enhance treatment effectiveness for suppression of white mold. Under conditions of heavy white mold pressure, a suitable fungicide may also be required and must be applied separately.

**\*\* Band Rescue Treatment:**

Use Chlorpyrifos 15G for the control of lesser cornstalk borer when the insect first appears, usually just prior to or at pegging. Apply in a 10 to 18 inch band over the fruiting zone.

**Restrictions:**

Do not apply more than 15 ounces of Chlorpyrifos 15G per application per 1,000 feet of row or 13.3 pounds of Chlorpyrifos 15G per acre per application. Do not apply more than 30 oz. per 1000 ft. of row or 26.6 pounds per acre per crop season. Do not harvest within 21 days after treatment. Do not feed peanut forage or hay to meat or dairy animals. The combined total of preplant and postplant applications of Chlorpyrifos 15G must not exceed 4 pounds of active ingredient per acre per crop season.

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## SOYBEANS

### Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces / 1,000 Feet of Row)		Postplant Treatment
	At Plant Treatment		
	T-Band	Band	
Lesser Cornstalk Borer Cutworms	8	8	8

\* 8 oz. rate - suppression only.

### At Plant and Postplant Treatments:

Use Chlorpyrifos 15G insecticide to control larvae of the lesser cornstalk borer and cutworms by application at planting time or postemergence as a band (row) treatment at the rate of 8 ounces per 1,000 feet of row. In the southeast apply 4 to 8 oz per 1,000 feet of row as an at-plant treatment. Equivalent rates of Chlorpyrifos 15G per acre for various row spacing are given in the accompanying table. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence treatment when insects first appear incorporate the granules in a 4 to 10 inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply Chlorpyrifos 15G with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment.

### Restrictions:

Do not make more than one application per crop season.

## SUGAR BEETS

Granular insecticides, including Chlorpyrifos 15G, may contribute to the stress of the sugar beet plant under certain environmental conditions. This stress may reduce plant stand or interfere with normal plant development. Herbicides used preplant incorporated may interact with insecticides and enhance this stress.

### Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces / 1,000 Feet of Row)		Postplant Treatment
	At Plant Treatments		
	T-Band	Band	
Sugar Beet Root Maggot	-	4.5 to 9	6.5 to 9
Cutworms	-	6.6 to 9.0	-
Wireworms (suppression)	-	6.5 to 9	-

### At Plant Band Treatment:

To control sugar beet root maggot larvae and cutworms at planting time, place Chlorpyrifos 15G in a band 4-5 inches wide behind the planter shoe, over the drill row, and in front of the press wheel. Do not apply granules in direct contact with seeds. Apply Chlorpyrifos 15G at the rate of 4.5 to 9 ounces per 1,000 feet of row (equivalent to 6.75 to 13.5 lb per acre based on a 22-inch row spacing).

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When Root Maggot populations are expected to be low, apply Chlorpyrifos 15G at a rate of 4.5 ounces per 1000 feet of row (equivalent to 6.75 lb. per acre based on 22 inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply Chlorpyrifos 4E AG at or near the time of peak adult emergence to augment control. (Review label for Chlorpyrifos 4E AG for recommended use rates, application timing, methods of application, and insecticide resistance management). Incorporate Chlorpyrifos 15G into the top 1/2 to 1 inch of soil using a suitable incorporation equipment.

**Postemergence Band Treatment:**

For postemergence control of Sugar Beet Maggot Larvae, place Chlorpyrifos 15G in a band 3 to 5 inches wide over the beet row (up to the 2 to 4 leaf stage of plant growth). Apply Chlorpyrifos 15G at the rate of 6.5 to 9 oz. per 1000 feet of row (equivalent to 10 to 13.5 lb. per acre based on 22 inch row spacing). Incorporate Chlorpyrifos 15G into the top 1/2 inch of soil using a suitable incorporation device.

**Restrictions:**

Do not make more than one application per season.

Maximum amount a.i. to be applied per acre per season: 2 lbs ai/A

**SUNFLOWERS**

**Pest Controlled:** cutworms

Application Rate: 8 oz per 1,000 feet of row

**At Plant Band Treatment:**

Place the granules in a 7-inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top one inch of soil using suitable equipment.

**Restrictions:**

Do not make more than one application per season.

**SWEET POTATOES**

**Pests Controlled:** wireworms (*Conoderus*), flea beetles (*Systema*), and sweet potato beetle

Application Rate: 13.5 lb/acre

**Preplant Broadcast Treatment:**

Use Chlorpyrifos 15G to reduce the feeding damage caused by populations of the listed pests. Evenly broadcast the granules over the soil surface and then incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that Chlorpyrifos 15G will protect against feeding damage).

Chlorpyrifos 15G will not control false wireworm or white fringed beetle and other grubs that attack sweet potatoes.

**Restrictions:**

Do not make more than one application per crop season. Do not harvest within 125 days of treatment.

**TOBACCO**

**Pests Controlled:** cutworms, flea beetle larvae, root maggots, and wireworms

Application Rate: 13.5 to 20 lb/acre

**Preplant Broadcast Treatment:**

Apply Chlorpyrifos 15G one week before transplanting, using equipment that will evenly distribute the granules over a treated area. Immediately following application, incorporate the granules into the soil to a depth of 2 to 4 inches using suitable equipment. The application of Chlorpyrifos 15G will also suppress movement of imported fire ant into a treated field.

**Restrictions:**

Do not make more than one application per season.

**BRASSICA (COLE) CROPS**

Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Chinese Cabbage, Collards, Kale, Kohlrabi, Rutabagas, and Turnips

**Pest Controlled:** root maggot

Application Rate: 4.6 to 9.2 ounces per 1,000 feet of row

**At Plant T-Band Treatment:**

For direct seeded and transplanted crops, apply Chlorpyrifos 15G as a 4-inch wide band centered over the row. This application requires a spreader or splitter on the end of the applicator drop tube. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended. Restricted entry interval (REI) is 3 days for cauliflower. Pre-harvest interval (PHI) for cauliflower is 10 days.

**Restrictions:**

Do not apply more than 7 1/2 pounds of Chlorpyrifos 15G per acre to crops planted in 40-inch rows or more than 15 pounds of Chlorpyrifos 15G per acre to crops planted in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 15 pounds of Chlorpyrifos 15G per acre. Do not make more than one application per crop season. Do not use rutabaga tops for food or feed purposes.

**RADISHES****Pest Controlled:** root maggot

Application Rate: 3.3 ounces per 1,000 feet of row

**At Plant In-Furrow Treatment:**

Place the granule in the seed furrow with the seed at planting time.

**Restrictions:**

Do not apply more than 18.3 pounds of Chlorpyrifos 15G per acre or make more than one application per crop season.

**Table 1**

Chlorpyrifos 15G Insecticide-Application Rates per 1,000 ft of row and equivalent per acre application rates at various row spacings

Amount of Chlorpyrifos 15G Per 1,000 Feet of Row	Pounds of Chlorpyrifos 15G required Per Acre from Different Row Spacing							
	40"	38"	36"	34"	32"	30"	22"	18"
3.7 ounces	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4 ounces	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
4.5 ounces	3.7	3.9	4.1	4.3	4.6	4.9	6.7	8.2
6 ounces	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5 ounces	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5 ounces	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8 ounces	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5
9 ounces	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3
12 ounces	9.8	10.3	10.9	11.5	12.3	13.1	17.8	21.8
15 ounces	12.3	12.9	13.9	14.4	15.3	16.3	22.3	27.2

Amount of Chlorpyrifos 15G Per 1,000 Feet of Row	Pounds of Chlorpyrifos 15G required Per Acre from Different Row Spacing							
	40"	38"	36"	34"	32"	30"	22"	18"
16 ounces	13.1	13.8	14.5	15.4	16.3	17.4	23.8	29.0

Table 2

**Equipment Calibration and Calibration Settings for Different Types of Equipment**

## General Instructions for Equipment Calibration

Caution: The following chart lists suggested initial gauge settings for application of Chlorpyrifos 15G Insecticide with one hopper opening per row. Be sure to check the actual application rate under your operating conditions.

1. Fill hopper.
2. Attach a plastic bag to tub opening.
3. Set your planter to the initial settings shown on chart.
4. Measure off 1,000 row feet and drive your planter the pre-measured distance at your desired speed.
5. Each bag should contain 6 to 8 ounces (wt) of granules depending on your desired rate.
6. If the result is over or under the desired rate adjust the settings and repeat the calibration.

Planter Type	Calibration Setting									
	Speed MPH									
	4		5		6		7		8	
	Application Rate oz. per 1,000 row feet									
	8	16	8	16	8	16	8	16	8	16
	Gauge Setting									
Gandy <sub>1</sub>	21.4	30.2	23.7	32.4	26.0	36.0	27.7	39.0	30.2	41.0
John Deere <sub>1</sub> Max-Emerge <sub>2</sub>	20	44	26	46	30	49	35	52	40	54
John Deere <sub>1</sub> 7000 Max- Emerge (Odd No.s on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere <sub>1</sub> 7000 Max-Emerge (Even No.s on Gate)	17	30	20	33	24	35	26	36	28	38
John Deere <sub>2</sub> 71 Flexi-Planter and Older Planters	$\frac{1}{30}$	$\frac{2}{17}$	$\frac{2}{5}$	$\frac{2}{22}$	$\frac{2}{9}$	$\frac{2}{27}$	$\frac{2}{13}$	$\frac{2}{31}$	$\frac{2}{16}$	$\frac{3}{16}$
Allis Chalmers <sub>3</sub> 70 Series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers <sub>4</sub> 78 & 79 Series	$\frac{1}{9.0}$	$\frac{3}{3.0}$	$\frac{2}{3.3}$	$\frac{3}{9.5}$	$\frac{2}{6.0}$	$\frac{4}{3.0}$	$\frac{2}{9.0}$	$\frac{5}{4.0}$	$\frac{3}{2.5}$	$\frac{6}{0}$

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Planter Type	Calibration Setting									
	Speed MPH									
	4		5		6		7		8	
	Application Rate oz. per 1,000 row feet									
	8	16	8	16	8	16	8	16	8	16
	Gauge Setting									
Noble <sub>1</sub> (New)	11	19	14	22	16	25	17	28	19	31
White Planter	11	19	14	22	16	25	17	28	19	31
International Harvester <sub>4</sub>	1 9.0	3 3.0	2 3.3	3 9.5	2 6.0	4 3.0	2 9.0	5 4.0	3 2.5	6 0
Buffalo All-Flex <sub>5</sub> (Fleischer Mfg)	4 7/8	10	4 7/8	10	4 7/8	10	-	-	-	-

<sup>1</sup> Gauge setting.

<sup>2</sup> Gauge setting with range 1 & 2 number is range notch

<sup>3</sup> Gauge setting is constant regardless of speed.

<sup>4</sup> Gauge setting shown with stem gates & dial settings number shown is gate dial

<sup>5</sup> Number of turns open on the adjustment nut.

#### 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. To the extent consistent with applicable law, 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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