

66330-390

09-04-2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
1200 Pennsylvania Avenue, N.W.  
Washington, D.C. 20460

EPA Reg. Number:  
66330-390

Date of Issuance:  
SEP 4 2009

Term of Issuance:  
Conditional

Name of Pesticide Product:  
Shooter Insecticide

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(Under FIFRA as amended)

Name and Address of Registrant (include ZIP Code):

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

~~Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.~~

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is **conditionally** registered in accordance with FIFRA sec. 3(c)(7)(A), provided that:

1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. You will make the following label changes before you release the product for shipment:
  - a) Revise the EPA Registration Number to read "EPA Reg. No. 66330-390."
  - b) Under First Aid/If Swallowed revise, "Do not give any liquid to the person" to read "Have person sip a glass of water if able to swallow."
  - c) Delete the note to physician; the statements are not needed for this product.
  - d) Revise the Precautionary statements as follows:
    - Revise the 3<sup>rd</sup> sentence to read "Avoid contact with skin, eyes or clothing".
    - Delete the 5<sup>th</sup> sentence (Avoid contact...).
  - e) Under Personal Protective Equipment (PPE) revise the statements "Handlers who may be exposed to the dilute/concentrate..." as follows:
    - "Applicators and other handlers must wear:
      - Long sleeve shirt and long pants
      - Chemical resistant gloves, such as barrier laminate or Viton
      - Shoes plus sock
      - Protective eyewear.
    - Engineering controls..."

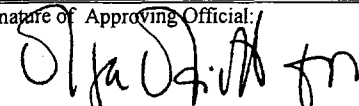
- f) Revise the Physical and chemical hazards statements to read, "**Combustible. Do not use or store...**"
- g) Revise the PPE under the Agricultural Use Requirements as follows:
  - Coveralls
  - Chemical resistant gloves, such as barrier laminate or Viton
  - Shoes plus sock
  - Protective eyewear
- h) On page 3, revise the statements under Application as follows:
  - Delete "*Under heavy pest populations use of highest labeled rate is recommended.*" Only one rate is specified on the label.
  - Revise "Caution when using during transplant..." to read "*Transplants of some varieties may be sensitive to the oils in this product.*"
- i) On page 4, revise "Use caution when tank mixing..." to read "*Crop injury may result when tank mixing with products that restrict the use of oil-based products.*"
- j) Move the Storage and Disposal statements to the end of the Directions for Use section of the label. This is the preferred placement since it eliminates the break between the heading "Directions for Use" and the body of the use directions.
- k) Revise the Pesticide disposal statements to read: "*Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.*"
- l) The container disposal statements for pesticides have been revised. Refer to PR Notice 2007-4 ([http://www.epa.gov/PR\\_Notices/pr2007-4.pdf](http://www.epa.gov/PR_Notices/pr2007-4.pdf)) and modify your label accordingly.
- m) Revise the table under Directions for use as follows:
  - Revise *Deltamethrin Pounds AI/A* to read "*Pounds of Deltamethrin/A.*"
  - Revise *Fl. Oz./A* to read "*Fl. Oz. Shooter/A.*"
  - Under remarks revise restriction #1, "*Do not apply more than XX lb ai/A of total deltamethrin per growing season*" throughout by deleting "*total*" and adding the appropriate ounces of Shooter/A: "*XX fl.oz. Shooter/A (XX lb deltamethrin/A) on ...per growing season.*" Also, make statements consistent with the rate allowed by restriction # 2 (i.e., for cotton: no more than 10 applications per growing season = 0.1 lb deltamethrin/A/season, not 0.3 lb...; for corn: 5 applications for season = 0.04 lb deltamethrin/A/season, not 0.095...; etc.)
- n) On page 16, delete the sprayer cleanout procedure statements. Equipment cleaning instructions must be included under the Storage and Disposal / Container/containment section of the label.
- o) Revise the Spray Drift statements (under "Observe the following precautions when spraying in the vicinity...") according to the updated Spray drift language for pyrethroid agricultural use products (<http://www.epa.gov/oppsrrd1/reevaluation/epa-letter.pdf>).

- 3. Your request for exemption under 40 CFR §152.25 (f) for geraniol and thyme oil is unacceptable. The active ingredients in §152.25 (f) are exempt from the requirements of FIFRA only when used alone or in combination with other substances listed in that paragraph. **Therefore, within one (1) year from the date of this letter**, submit the technical chemistry data corresponding to Series 830 Subgroup A and B for geraniol and thyme oil. If these active ingredients are United States Pharmacopoeia (USP) grade, a copy of USP analysis with citation of the analytical methods used and certification would satisfy some of the requirements of Subpart A, and data on physical and chemical characteristics from Material Safety Data Sheets (MSDS) may be used to satisfy Series 830 Subgroup B.

At the same time, you will be required to submit a revised confidential statement of formula (CSF) retracting the exempt 40 CFR 152.25 status from block 12 of the CSF; and a revised Formulator's Exemption Statement.

- 4. The product chemistry data submitted to support registration of this product have been reviewed and found acceptable to fulfill the requirements of 830 Series subgroup A and Subgroup B data requirements with the exception of storage stability (830.6317) and corrosion characteristics data (830.6320). **One-year storage stability and corrosion characteristics data must be submitted to the Agency.**
- 5. The acute toxicity profile of the product has been determined to be as follows:
  - Acute Oral ----- III      Primary Eye Irritation ----- III
  - Acute Dermal --- IV      Primary Dermal Irritation --- III
  - Acute Inhalation --- IV      Skin Sensitization ----- Negative
- 6. **Submit three (3) copies of your revised labeling for review and approval before releasing the product for shipment.** If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have questions regarding this action, please contact Olga Odiott at 703-308-9369.

<p>Signature of Approving Official:            Kimberly Nesci, Interim Product Manager (13)          Insecticide Branch/Registration Division (7505P)</p>	<p>Date:          SEP 4 2009</p>
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Enclosure

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Group	3	Insecticide
Group	un	Insecticide

# Shooter™ Insecticide

For Insect Control on Bulb Vegetables, Cucurbit Vegetables, Fruiting Vegetables, Root Vegetables (except Sugarbeets), Tuberos and Corm Vegetables, Pome Fruits, Tree Nuts, Canola and Rapeseed, Cotton, Field Corn, Popcorn, Sweet Corn, Soybeans, Sorghum and Sunflowers.

ACTIVE INGREDIENT:	Percent by Weight
Deltamethrin .....	0.75%*
Geraniol .....	17.28%
Thyme Oil .....	36.00%
<b>INERT INGREDIENTS</b> .....	<b>45.97%</b>
	<b>TOTAL 100.00%</b>

\*Equivalent to 0.05 lb. of Deltamethrin and 4 lbs. of Essential Oils per U.S. gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</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.</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>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For <b>MEDICAL</b> Emergencies Call 24 Hours A Day 1-866-303-6952 For <b>TRANSPORTATION</b> Emergencies Call 24 Hours A Day CHEMTREC 1-800-424-9300</p>	
<p><b>NOTE TO PHYSICIAN:</b> Probable mucosal damage may contraindicate the use of gastric lavage.</p>	

For **PRODUCT USE** Information Call 1-866-761-9397

E.P.A. Reg. No. 66330-xxx  
E.P.A. Est. No. \_\_\_\_\_

Manufactured for  
Arysta LifeScience North America, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

NET CONTENTS: \_\_\_\_\_

**ACCEPTED**  
**with COMMENTS**  
**In EPA Letter Dated**

SEP 14 2009

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No.

66330-390

Shooter Insecticide (xxx-090309)Clean.doc  
066330-00xxx.20090904.Revisions Clean.pdf

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid contact with eye or clothing. Wear goggles or face shield. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

**Handlers who may be exposed to the dilute through application or other tasks must wear:**

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or Viton®
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

**Handlers who may be exposed to the concentrate through mixing, loading, application, or other tasks must wear:**

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate or Viton®
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when mixing or loading, or cleaning equipment

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft 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.

**USER SAFETY RECOMMENDATIONS**

**Users should:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. 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 areas near the application site. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply it or allow it to drift to crops or weeds on which bees are actively foraging.

Notify State and/or Federal authorities and Arysta LifeScience Corporation immediately if you observe any adverse environmental effects due to the use of SHOOTER™ Insecticide.

NOTICE: It is a Federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.

**PHYSICAL AND CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Do not store over 100°F or below 50°F.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

#### WHEN PACKAGED IN PLASTIC CONTAINERS:

**Container Disposal:** Empty containers should be triple rinsed into the spray tank during the spray operation. Then offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill or by incineration; or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### WHEN PACKAGED IN SVR CONTAINERS:

**Returnable Container Return Procedure:** Return the container clean (outside only) to the place of business from which the SHOOTER™ Insecticide was purchased. This returnable container is the sole property of Arysta LifeScience Corporation and must not be opened or discarded.

### 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.

Shake well before using.

### 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 over short-sleeved shirt and short pants
- Chemical-resistant gloves such as barrier laminate or Viton®
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

### APPLICATION

SHOOTER™ is recommended for use at 20 fl. oz. per acre for labeled crops and pests.

Dilute SHOOTER™ in water according to the directions shown below and apply to the target crops at the rates listed. Uniform coverage is essential. Consult your local or state agricultural authorities regarding economic thresholds and timing of application for specific pests. Under heavy pest populations use of the highest labeled rate is recommended.

SHOOTER™ may be applied before, during, or after planting. Caution when using during transplant as some varieties may be sensitive to the oils in this product.

### RESISTANCE

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of

insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

### TANK MIX RECOMMENDATIONS

Shooter™ Insecticide may be applied in tank mixtures with other pesticides approved for use on the crops specified. Observe all restrictions and precautions which appear on the labels of those products. If compatibility with another product is not known perform a small-scale test to determine compatibility. When testing combination sprays for compatibility, first add SHOOTER™ Insecticide to at least an equal amount of water in a clear container, mix thoroughly, and then add combination products to the mixture. Curdling, precipitation, greasing, layer formation or increased viscosity are symptoms of incompatibility. If any of these symptoms appear do not use the combination.

SHOOTER™ Insecticide contains a high concentration of oil based products. Use caution when tank mixing with products that restrict the use of oil-based products or crop injury may result.

SHOOTER™ Insecticide may also be applied in combination with additive products such as adjuvants, spreader stickers, penetrating agents, and drift control agents. Observe all restrictions and precautions which appear on the labels of those products. If compatibility with such a product is not known, a small scale test as described above should be performed.

When an adjuvant or a specific adjuvant product, such as a drift control agent is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended.

### COTTON

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Cotton fleahoppers Cotton leafperforator Cotton leafworm Cutworm Leafhoppers Threecornered alfalfa hopper Thrips Armyworm (all species) <sup>1</sup> Aphids Boll weevil Cabbage looper <sup>2</sup> Cotton bollworm European Corn borer Grasshoppers Mites Pink bollworm Saltmarsh caterpillar Soybean looper <sup>2</sup> Stink bugs Tarnished plant bug <sup>1</sup> Tobacco budworm <sup>1</sup> Whitefly (adult) Western plant Bug <sup>1</sup>	0.01	20	<p><b>Minimum Gallonage Requirements:</b>            For aerial application use a minimum of 2 gallons of water per acre (3 gallons in Arizona). For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.</p> <p><b>Optimum Gallonage Requirements:</b>            For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3 to 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 10 gallons per acre obtain thorough coverage.</p> <p><b>RESTRICTIONS for Use on Cotton:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.3 lb ai/A of total deltamethrin per growing season.</li> <li>DO NOT make more than 10 applications of SHOOTER™ per growing season.</li> <li>Allow 5 days between successive applications of SHOOTER™.</li> <li>DO NOT apply SHOOTER™ within 21 days of harvest.</li> <li>DO NOT apply this product as a ULV application. Dilute the desired amount of SHOOTER™ so that at least 2 gallons of spray solution per acre is applied.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

**CORN, FIELD AND POP**

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Cutworms Flea beetles Grasshoppers Aphids Armyworm (all species) <sup>1,2</sup> Chinch bugs Click beetle Corn earworm <sup>1,2</sup> Corn rootworm (adult) European corn borer <sup>2</sup> Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer <sup>2</sup> Southwestern corn borer <sup>2</sup> Stalk borer <sup>2</sup> Stink bugs Webworm	0.01	20	<p><b>Minimum Gallonage Requirements:</b></p> For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage. <p><b>RESTRICTIONS for Use on Corn:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.095 lb ai/A of total deltamethrin on field corn in one growing season.</li> <li>DO NOT make more than 5 applications of SHOOTER™ per acre per season.</li> <li>Allow 21 days between successive applications of SHOOTER™</li> <li>DO NOT apply SHOOTER™ within 21 days of harvest of field corn for grain or fodder, or within 12 days of cutting or grazing field corn for forage.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> Apply to early instar larvae prior to boring into the ear or stalk.



### CORN, SWEET

Target Pests	Rate		Remarks
	Deltamethrin Pounds A/A	Fl. Oz. Per Acre	
Cutworms Flea beetles Grasshoppers Aphids <sup>1</sup> Armyworm (all species) <sup>1,2</sup> Chinch bugs Click beetle Corn earworm <sup>1,2</sup> Corn rootworm (adult) European corn borer <sup>2</sup> Japanese beetle (adult) June beetle (adult) Masked chafer (adult) Southern corn borer <sup>2</sup> Southwestern corn borer <sup>2</sup> Stalk borer <sup>2</sup> Stink bugs Webworm	0.01	20	<p><b>Application Interval:</b></p> <p>To protect the tassel, silk and ear, a 1 day interval may be used from tassel emergence to silk dry-down. Once silks have dried and egg laying has stopped, spray intervals may be extended as indicated by scouting.</p> <p><b>Minimum Gallonage Requirements:</b></p> <p>For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage. As the crop canopy closes water volume should be increased to a minimum of 5 gallons per acre for aerial applications and a minimum of 10 gallons of water per acre for ground applications to insure thorough coverage.</p> <p><b>RESTRICTIONS for Use on Sweet Corn:</b></p> <ol style="list-style-type: none"> <li>1. DO NOT apply more than 0.45 lb ai/A of total deltamethrin on sweet corn in one growing season.</li> <li>2. DO NOT apply SHOOTER™ within 24 hours of harvest.</li> <li>3. DO NOT graze livestock in treated areas or cut treated crops for feed within 24 hours of the last application to a fresh / green crop.</li> <li>4. DO NOT feed treated stover to livestock within 21 days of application.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> Apply to early instar larvae prior to boring into ear or stalk.

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## SORGHUM

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Corn earworm (also known as sorghum headworm) Cutworms Flea beetles Grasshoppers Sorghum webworm Aphids Armyworm (all species) <sup>1, 2</sup> Chinch bug Corn rootworm beetles (adult) European corn borer <sup>2</sup> Lesser corn stalk borer <sup>2</sup> Mexican rice borer <sup>2</sup> Southern corn borer <sup>2</sup> Stalk borer <sup>2</sup> Sugarcane borer <sup>2</sup> Sorghum midge Stink bugs	0.01	20	<p><b>Minimum Gallonage Requirements:</b>            For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.</p> <p><b>RESTRICTIONS for Use on Sorghum:</b></p> <ol style="list-style-type: none"> <li>1. DO NOT apply more than 0.045 lb. ai/A of total deltamethrin on sorghum in one growing season.</li> <li>2. DO NOT apply SHOOTER™ within 14 days of harvest of sorghum grain.</li> <li>3. DO NOT cut or graze sorghum forage within 14 days after application of SHOOTER™</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> Apply to early instar larvae prior to boring into the stalk.

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### SOYBEANS

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Corn earworm <sup>3</sup> Cutworms Green cloverworm Leafhoppers Three-cornered alfalfa hopper Velvetbean caterpillar Armyworm (all species) <sup>1,2</sup> Bean leaf beetle Cabbage looper <sup>2</sup> Click beetle Corn rootworm beetles (adult) European corn borer Grape colaspis (adult) Grasshoppers Japanese beetle (adult) Masked chafer Mexican bean beetle Saltmarsh caterpillar Soybean aphid Soybean looper <sup>2</sup> Stink bugs Tarnished plant bug <sup>1</sup> Tobacco budworm <sup>1,2</sup> Webworm Yellow Woollybear	0.01	20	<p><b>Minimum Gallonage Requirements:</b>            For aerial applications, use a minimum of 2 gallons of water per acre. For ground applications, use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.</p> <p><b>Optimum Gallonage Requirements:</b>            For aerial applications under hot, dry environmental conditions or when the crop canopy is dense, gallonage requirements may need to be increased to 3 – 5 gallons of water plus crop oil concentrate at 1 pint to 1 quart per acre. Ground application gallonage should be increased to a minimum of 10 gallons per acre to obtain thorough coverage.</p> <p><b>RESTRICTIONS for use on Soybeans:</b></p> <ol style="list-style-type: none"> <li>1. DO NOT apply more than 0.1 lb ai/A of total deltamethrin on soybeans in one growing season.</li> <li>2. DO NOT apply SHOOTER™ within 21 days of harvest.</li> <li>3. DO NOT allow livestock to graze treated forage, or feed treated hay to livestock.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

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**SUNFLOWERS**  
(Except in California)

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Banded sunflower moth Cabbage looper <sup>1</sup> Corn earworm <sup>1</sup> Cutworms Grasshoppers (except lubber grasshoppers) Leafhoppers Potato flea beetle Sunflower beetle Sunflower seed weevil Sunflower stem weevil (moth) Sunflower maggot Sunflower moth	0.01	20	<p><b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use a minimum of 5 gallons of water per acre for thorough coverage of the foliage.</p> <p><b>RESTRICTIONS for Use on Sunflowers:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.045 lb ai/acre of total deltamethrin on sunflowers in one growing season.</li> <li>DO NOT apply within 21 days of harvest for sunflowers.</li> <li>DO NOT graze or feed treated sunflower foliage to livestock.</li> <li>DO NOT apply this product to sunflowers as an Ultra Low Volume (ULV) spray.</li> </ol>

<sup>1</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

**BULB VEGETABLES**

Includes all members of Crop Group 3 such as:  
(garlic, leeks, onions, shallots)

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Cutworms Stink bugs Thrips	0.01	20	<p><b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.</p> <p><b>RESTRICTIONS for Use on Bulb Vegetables:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.112 lb ai/A of total deltamethrin on bulb vegetables in one growing season.</li> <li>Allow 5 days between applications of SHOOTER™.</li> <li>DO NOT apply within 1 day of harvest.</li> </ol>

### CUCURBIT VEGETABLES

Includes all members of Crop Group 9 such as:

(cantaloupes, chayote, Chinese waxgourd, citron melon, cucumber, gherkin, gourds, *Momordica* species, muskmelon, pumpkin, squash, watermelon)

Target Pests	Rate		Remarks
	Deltamethrin Pounds A/A	Fl. Oz. Per Acre	
Cabbage looper Cutworms Leafhoppers Armyworm (all species) <sup>1,2</sup> Colorado potato beetle <sup>1</sup> Corn earworm Cucumber beetles Diamondback moth (larvae) <sup>1</sup> Flea beetles Grasshoppers Green peach aphid Leafminers <sup>1</sup> Melonworm Pickleworm Stink bugs Tarnished plant bug <sup>1</sup> Tobacco budworm <sup>1,2</sup> Tomato pinworm Vegetable weevil (adult) Western plant bug <sup>1</sup> Whitefly (adult) <sup>2</sup>	0.01	20	<b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage. <b>RESTRICTIONS for Use on Cucurbit Vegetables:</b> 1. DO NOT apply more than 0.168 lb ai/A of total deltamethrin on cucurbit vegetables in one growing season. 2. Allow 3 days between applications of SHOOTER™. 3. DO NOT apply within 3 days of harvest.

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

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### FRUITING VEGETABLES

Includes all members of Crop Group 8 such as:  
(eggplant, groundcherry, pepinos, peppers, tomatillo, tomato)

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Cabbage looper Leafhoppers Tomato hornworm Aphids Armyworm (all species) <sup>1,2</sup> Colorado potato beetle <sup>1</sup> Cucumber beetle Cutworms Diamondback moth <sup>1</sup> European corn borer Flea beetles Imported cabbageworm Leafminers Pepper weevil Stink bugs Tarnished plant bug <sup>1</sup> Thrips Tomato fruitworm (corn earworm) Tomato pinworm Variegated cutworm Whitefly <sup>2</sup>	0.01	20	<p><b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.</p> <p><b>RESTRICTIONS for Use on Fruiting Vegetables:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.168 lb ai/A of total deltamethrin on fruiting vegetables in one growing season.</li> <li>Allow 5 days between applications of SHOOTER™.</li> <li>DO NOT apply within 1 day of harvest.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

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**GLOBE ARTICHOKE**

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Aphids Armyworm (all species) <sup>1,2</sup> Cabbage looper <sup>2</sup> Cribrate weevil Leafminers Lygus bug (plant bug) <sup>1</sup> Pale striped flea beetles Plume moth Probas bug	0.01	20	<b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage. <b>RESTRICTIONS for Use on Globe Artichoke:</b> 1. DO NOT apply more than 0.14 lb ai/A of total deltamethrin on root, tuberous and corm vegetables in one growing season. 2. Allow 3 days between applications of SHOOTER™ 3. DO NOT apply within 3 days of harvest.

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

**ROOT VEGETABLES (EXCEPT SUGARBEET)**

Includes all members of Crop Subgroup 1B such as:

(carrot, celeriac, chervil (turnip-rooted), chicory, edible burdock, garden beet, ginseng, horseradish, parsley (turnip-rooted), parsnip, radish, oriental radish, rutabaga, salsify, black salsify, Spanish salsify, skirret, turnip)

**TUBEROUS and CORM VEGETABLES**

Includes all members of Crop Subgroup 1C such as:

(potato, sweet potato, arracacha, arrowroot, Chinese artichoke, Jerusalem artichoke, edible canna, bitter and sweet cassava, chayote (root), chufa, dasheen, ginger, leren, tanier, tumeric, yam bean, true yam)

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Cabbage looper <sup>2</sup> Cutworms Pea aphid Armyworm (all species) <sup>1,2</sup> Colorado potato beetle <sup>1</sup> European corn borer Flea beetles Green peach aphid Leafhoppers Lygus bug (plant bug) <sup>1</sup> Tarnished plant bug <sup>1</sup>	0.01	20	<p><b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use sufficient water to obtain full coverage of foliage.</p> <p><b>RESTRICTIONS for Use on Root, Tuberous, and Corm Vegetables:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 0.14 lb ai/A of total deltamethrin on root, tuberous and corm vegetables in one growing season.</li> <li>Allow 3 days between applications of SHOOTER™</li> <li>DO NOT apply within 3 days of harvest.</li> <li>Except for radishes, DO NOT apply to root, tuberous, and corm vegetables whose tops or leaves are to be harvested for human or livestock consumption.</li> </ol>

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.



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**CANOLA, CRAMBE, RAPESEED**

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Beet Armyworm <sup>1,2</sup> Bertha Armyworm Cabbage seed pod weevil Clover Cutworm Diamondback Moth Flea Beetle Grasshopper Lygus bug (plant bug) <sup>1</sup>	0.01	20	<b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 2 gallons of water per acre. For ground applications use a minimum of 5 gallons of water per acre for thorough coverage of the foliage. <b>RESTRICTIONS for Use on Canola, Crambe and Rapeseed:</b> 1. DO NOT apply more than 0.018 lb ai/A of total deltamethrin on Canola, Crambe, or Rapeseed in one growing season. 2. Allow 7 days between applications of SHOOTER™ 3. DO NOT apply SHOOTER™ within 7 days of harvest.

<sup>1</sup> See resistance statement under the "Directions For Use" section.

<sup>2</sup> For best control apply to 1<sup>st</sup> and 2<sup>nd</sup> instar larvae.

**TREE NUTS**

Includes all members of Crop Group 14 such as:

(almonds, beech nut, Brazil nut, butternut, cashew, chestnut, chinquapin, filbert, hickory nut, macadamia nut, pecan, pistachio, walnut)

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Aphids Codling moth Filbertworm Hickory shuckworm Leafhoppers Navel orangeworm Obliquebanded leafroller Peach twig borer Pecan nut casebearer Pecan weevil Stink bugs Tarnished plant bug <sup>1</sup> Walnut husk fly Western peach borer	0.01	20	For best results against over-wintering peach twig borer, apply as a dormant spray or delayed dormant spray. SHOOTER™ may be applied in combination with dormant oil. Refer to the dormant oil product label for additional use directions and restrictions. <b>Minimum Gallonage Requirements:</b> For aerial applications use a minimum of 10 gallons of water per acre. For ground applications, use a minimum of 25 gallons of water per acre for thorough coverage of the foliage. <b>RESTRICTIONS for Use on Tree Nuts:</b> 1. DO NOT apply more than 0.165 lb ai/A of total deltamethrin on tree nuts in one growing season. 2. Allow 7 days between applications of SHOOTER™ 3. DO NOT apply within 21 days of harvest.

<sup>1</sup> See resistance statement under the "Directions For Use" section.

**POME FRUITS**

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**Includes all members of Crop Group 11 such as:  
(apple, crabapple, loquat, mayhaw, pear, oriental pear, quince)**

Target Pests	Rate		Remarks
	Deltamethrin Pounds AI/A	Fl. Oz. Per Acre	
Apple leafroller Apple leaf miner Apple maggot Codling moth Green fruitworm Obliquebanded leafroller Oriental fruit moth Plum curculio Potato leafhopper Redbanded leafroller San Jose scale (crawlers) Spotted tentiform leafminer Tarnished plant bug <sup>1</sup> Western plant bug <sup>1</sup> White apple leafhopper Aphids European apple sawfly Lesser appleworm Pear psylla Pear sawfly Periodic cicada Stink bugs	0.01	20	For applications to boring insects, apply prior to the insects entering the wood or fruit. Insects contained within plant tissue may not be controlled.  <b>Minimum Gallonage Requirements:</b>  For aerial applications use a minimum of 10 gallons of water per acre. For ground applications, use a minimum of 25 gallons of water per acre for thorough coverage of the foliage.  <b>RESTRICTIONS for Use on Pome Fruits:</b> 1. DO NOT apply more than 0.042 lb ai/A of total deltamethrin on pome fruits in one growing season. 2. Allow 7 days between applications of SHOOTER™ 3. DO NOT apply within 21 days of harvest.

<sup>1</sup> See resistance statement under the "Directions For Use" section.

**CHEMIGATION USE DIRECTIONS AND PRECAUTIONS  
SPRINKLER IRRIGATION APPLICATION**

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Apply SHOOTER™ Insecticide at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types, rates, and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with SHOOTER™ Insecticide applied by chemigation.

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of SHOOTER™ Insecticide into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1 to 0.2 inches per acre of irrigation water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to ensure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of SHOOTER™ Insecticide for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

**NOTE:** Arysta LifeScience North America, LLC does not recommend connecting chemigation systems to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

#### **USE PRECAUTIONS – SPRINKLER IRRIGATION APPLICATION**

- Apply this product only through sprinkler (including center pivot, lateral move, end tow, side [wheel] roll, traveler, big gun, solid set, or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.
- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply through chemigation systems connected to public water systems.

#### **SPRAYER CLEANOUT PROCEDURE**

Following application of SHOOTER™ Insecticide thoroughly clean spray equipment. Flush system multiple times with clean water. Dispose of rinse water in next application of SHOOTER™ Insecticide or check with local authorities for proper disposal instructions

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## **SUPPLEMENTAL SPRAY RECOMMENDATIONS AND PRECAUTIONS**

- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- **For cotton**, do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a crop in one growing season. Synthetic pyrethroid products include AMBUSH<sup>®</sup>, AMMO<sup>®</sup> 2.5EC, ASANA<sup>®</sup> XL, BATTALION 1.5EC, BAYTHROID 2, CAPTURE<sup>®</sup> 2EC, CYMBUSH, DANITOL 2.4EC, DECIS<sup>®</sup>, FURY<sup>™</sup> 1.5EC, KARATE<sup>®</sup>, MUSTANG, POUNCE<sup>®</sup> 3.2EC, SCOUT X-TRA<sup>®</sup>, and SynerGin<sup>™</sup> 2.
- **Do not apply to crops grown in a greenhouse.**
- **Do not make an application to transplanted crops within 14 days of transplanting.**
- **Use Viton seals in all application equipment.**
- **Apply SHOOTER<sup>™</sup> Insecticide within 24 hours of mixing. Re-agitate thoroughly if mixture has set overnight.**

### **OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.**

- Do not apply by ground within 25 feet or by air within 150 feet of lakes; reservoirs, rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds.
- For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used, and must not exceed 75% of wing span or rotor diameter.
- Use the largest droplet size consistent with pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.
- Spray should be released at the lowest height consistent with good pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid applications when wind gusts approach 15 mph.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

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## CONDITIONS OF SALE

1. Arysta LifeScience North America Corporation ("Arysta") warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label only when used in accordance with the directions under normal conditions of use.
2. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal use conditions, or under conditions not reasonably foreseeable to Arysta. **ARYSTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM OR IN CONNECTION WITH THE MANUFACTURE, SALE, DELIVERY, USE, HANDLING OR STORAGE OF THIS PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SELLER'S LIABILITY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE. ARYSTA DOES NOT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION CONCERNING THIS PRODUCT.**
3. Critical and unforeseeable factors beyond the control of Arysta prevent Arysta from eliminating all risks in connection with the use of this product. Such risks include, but are not limited to, damage to plants and crops to which product is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the use stated on the label and even though label directions are followed. Except as stated in 1 above, to the extent consistent with applicable law, by purchasing, accepting and using this product, the buyer and user acknowledge and assume all risks and liabilities resulting from handling, storage, and use of this product.

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