

66330-390

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JAN 28 2010

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

Subject: Revised Label as per Notice of Registration of September 4, 2009

EPA Reg. No. 66330-390  
Shooter Insecticide  
Your submission dated October 28, 2009

Dear Mr. Washburn:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable. Two (2) copies of the final printed labeling must be submitted prior to releasing the product for shipment. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Kimberly Nesci".

Kimberly Nesci  
Product Manager (11)  
Insecticide Branch  
Registration Division (7505P)

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%
INERT INGREDIENTS .....	45.97%
	<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.)

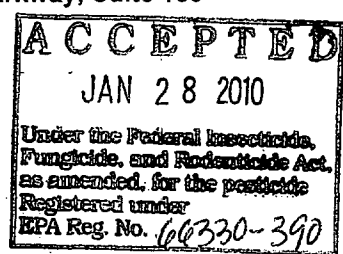
FIRST AID	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor for treatment advice.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Have person sip a glass of water if able to swallow.</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>	

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

E.P.A. Reg. No. 66330-390  
E.P.A. Est. No. \_\_\_\_\_

NET CONTENTS: \_\_\_\_\_  
AD090409

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



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

**CAUTION**

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. 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.

**Applicators and other Handlers must wear:**

- Long sleeve shirt and long pants
- Chemical-resistant gloves such as barrier laminate or Viton®
- Shoes plus socks
- Protective eyewear

**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**

**Combustible,** Do not use or store near heat or open flame.

### 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
- Chemical-resistant gloves such as barrier laminate or Viton®
- Shoes plus socks
- Protective eyewear

### 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.

SHOOTER™ may be applied before, during, or after planting. Transplants of 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. Crop injury may result when tank mixing with products that restrict the use of oil-based products..

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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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>1. DO NOT apply more than 248 fl. ounces of Shooter/A (0.1 lb of deltamethrin/A) per growing season.</li> <li>2. DO NOT make more than 10 applications of SHOOTER™ per growing season.</li> <li>3. Allow 5 days between successive applications of SHOOTER™.</li> <li>4. DO NOT apply SHOOTER™ within 21 days of harvest.</li> <li>5. 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.

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### CORN, FIELD AND POP

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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> <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> <p><b>RESTRICTIONS for Use on Corn:</b></p> <ol style="list-style-type: none"> <li>1. DO NOT apply more than 128 fl ounces of Shooter/A (0.04 lb of deltamethrin/A) on field corn in one growing season.</li> <li>2. DO NOT make more than 5 applications of SHOOTER™ per acre per season.</li> <li>3. Allow 21 days between successive applications of SHOOTER™</li> <li>4. 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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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>                      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>                      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 1,120 fl. ounces of Shooter/A (0.44 lb of deltamethrin/A) 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.

### SORGHUM

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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>DO NOT apply more than 115 fl. ounces of Shooter/A (0.045 lb. of deltamethrin/A) on sorghum in one growing season.</li> <li>DO NOT apply SHOOTER™ within 14 days of harvest of sorghum grain.</li> <li>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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 240 fl. ounces of Shooter/A (0.1 lb of deltamethrin/A) 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.

**SUNFLOWERS**  
(Except in California)

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 115 fl. ounces of Shooter/A (0.045 lb deltamethrin/acre) 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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 287 fl. ounces of Shooter/A (0.112 lb of deltamethrin/A) 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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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	<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 Cucurbit Vegetables:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 416 fl. ounces of Shooter/A (0.168 lb of deltamethrin/A) on cucurbit 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> </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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### FRUITING VEGETABLES

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

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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	<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 Fruiting Vegetables:</b> 1. DO NOT apply more than 416 fl. ounces of Shooter/A (0.165 lb of deltamethrin/A) on fruiting vegetables in one growing season. 2. Allow 5 days between applications of SHOOTER™. 3. DO NOT apply within 1 day 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.

**GLOBE ARTICHOKE**

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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	<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 Globe Artichoke:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 344 fl. ounces of Shooter/A (0.13 lb of delatmethrin/A) on root, tuberos 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> </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.

**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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 344 fl. ounces of Shooter/A (0.14 lb of deltamethrin/A) 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.

**CANOLA, CRAMBE, RAPESEED**

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 45 ounces of Shooter/A (0.018 lb of deltamethrin/A) 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
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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 412 fl. ounces of Shooter/A (0.165 lb deltamethrin/A) 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.

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### POME FRUITS

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

Target Pests	Rate		Remarks
	Pounds of Deltamethrin /A	Fl. Oz. Shooter/A	
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	<p>For applications to boring insects, apply prior to the insects entering the wood or fruit. Insects contained within plant tissue may not be controlled.</p> <p><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.</p> <p><b>RESTRICTIONS for Use on Pome Fruits:</b></p> <ol style="list-style-type: none"> <li>DO NOT apply more than 108 fl. ounces of Shooter/A (0.042 lb deltamethrin/A) on pome fruits in one growing season.</li> <li>Allow 7 days between applications of SHOOTER™</li> <li>DO NOT apply within 21 days of harvest.</li> </ol>

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



## CHEMIGATION USE DIRECTIONS AND PRECAUTIONS

### SPRINKLER IRRIGATION APPLICATION

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.

### 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®, AMMO® 2.5EC, ASANA® XL, BATTALION 1.5EC,

BAYTHROID 2, CAPTURE® 2EC, CYMBUSH, DANITOL 2.4EC, DECIS®, FURY™ 1.5EC, KARATE®, MUSTANG, POUNCE® 3.2EC, SCOUT X-TRA®, and SynerGin™ 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™ 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.

**BUFFER ZONES**

**Vegetative Buffer Strip**

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing (*name of pyrethroid*) onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

*Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.*

<http://www.in.csusda/v/technical/agronom/newconbuf.pdf>

**Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)**

Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**Buffer Zone for ULV Aerial Application**

Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**Buffer Zone for Non-ULV Aerial Application**

Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fish ponds).

**Spray Drift Requirements**

**Wind Direction and Speed**

Only apply this product if the wind direction favors on-target deposition.

Do not apply when the wind velocity exceeds 15 mph.

**Temperature Inversion**

Do not make aerial or ground applications into 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.

**Droplet Size**

Use only Medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

**Additional Requirements for Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

**Additional Requirements for Aerial Applications**

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size.

Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

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

**CONTAINER HANDLING/DISPOSAL:**

**PLASTIC CONTAINERS EQUAL TO OR LESS THAN 5 GALLONS:**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling (if available) 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.

**PLASTIC CONTAINERS GREATER THAN 5 GALLONS:**

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over and onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling (if available) 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.

**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.

**REFILLABLE CONTAINERS:**

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal empty the remaining contents from this container into application equipment or a

mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Return the container to the place of business from which the SHOOTER™ Insecticide was purchased. This returnable container is the sole property of Arysta LifeScience North America, LLC and must not be discarded.

**Warranty and Disclaimer Statement**

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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