9639-160

04-29-2010



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

**OFFICE OF CHEMICAL SAFETY** AND POLLUTION PREVENTION

APR 29 2010

Ms. Julie Schlekau Federal Registration Manager Registration & Regulatory Affairs Valent U.S.A Corporation 1600 Riviera Avenue, Suite 200 Walnut Creek, CA 94596-8025

Dear Ms. Schlekau,

Subject: Supplemental Labels for Newly Approved Uses Knack Insect Growth Regulator EPA Reg. No. 59639-95 Esteem Ant Bait EPA Reg. No. 59639-114 Esteem 35WP EPA Reg. No. 59639-115 Pyriproxyfen 0.86 EC Ag EPA Reg. No. 59639-160 – Submissions dated January 28, 2010

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, is acceptable based on the following condition:

1. Supplemental labeling is valid for 18 months from the date of issuance. Thereafter, the content of the supplemental labeling must be incorporated into the Master Label for each product. The supplemental label for each of the above products expires on October 29, 2011.

A stamped copy of each label (with the supplemental labeling attached) is enclosed for your records. If you any questions or require more information, please contact Kevin Sweeney, at (703) 305-5063. Thank you for your cooperation in this matter.

Product Manager /10

Insecticide Branch Registration Division (7505P)

Enclosure



FINAL PRINTED LABEL

# GROUP 7C INSECTICIDE

# PYRIPROXYFEN 0.86 EC Ag

Active Ingredient By Wt	
*Pyriproxyfen	
Other Ingredients	
Total	

\*(2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine)

Contains 0.86 pound ai per gallon.

#### ACCEPTED with COMMENTS In EPA Letter Dated APR 2 9 2010 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 59639-160

# **KEEP OUT OF REACH OF CHILDREN**

# CAUTION

SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT \_\_\_\_\_

# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

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

	FIRST AID			
lf on skin or clothing:	<ul> <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>			
If swallowed:	<ul> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>			
If in eyes:	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
lf inhaled:	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>			
- - -	HOT LINE NUMBER			
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 800-892-0099 for emergency medical treatment information.				

## PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

**Applicators and other handlers must wear:** long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves (such as barrier laminate or butyl rubber ≥ 14 mils).

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

# USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### ENVIRONMENTAL HAZARDS:

This pesticide is 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 from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by disposing of equipment washwaters or rinsate. Avoid direct application and/or spray drift to bee hives.

### DIRECTIONS FOR USE

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

# READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

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.

#### 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 Butyl Rubber ≥ 14 mils, shoes plus socks.

#### DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

#### **RISKS OF USING THIS PRODUCT**

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the corpor of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

#### LIMITED WARRANTY

Valent warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENT MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED. No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

#### LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent or Seller is not liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

#### PROMPT NOTICE OF CLAIM

To the extent consistent with applicable law allowing such requirements, Valent must be provided notice as soon as Buyer has reason to believe it may have a claim, but in no event later than twenty-one days from date of planting, or twenty-one days from the date of application, whichever is latter, so that an immediate inspection of the affected property and growing crops can be made.

To the extent consistent with applicable law, if Buyer does not notify Valent of any claims, in such period, it shall be barred from obtaining any remedy.

#### NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing **Disclaimer**, **Risks of Using This Product**, **Limited Warranty** and **Limitation of Liability**, which may not be modified by any oral or written agreement.

#### TANK MIXES

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent consistent with applicable law.

Read and follow the entire label of each product to be used in the tank mix with this product.

#### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management purposes, Pyriproxyfen 0.86 EC Ag Insect Growth Regulator is a Group 7C insecticide. Any insect population may contain individuals naturally resistant to Pyriproxyfen 0.86 EC Ag and other Group 7C insecticides. The resistant individuals dominate the insect population if these insecticides are used repeatedly. These resistant insects may not be controlled by Pyriproxyfen 0.86 EC Ag or other Group 7C insecticides, although local experts should be consulted for local resistance recommendations. The classification scheme is based on mode of action. It is recognized that resistance of insects and mites to insecticides and acaricides can also result from enhanced metabolism, reduced penetration or behavioral changes that are not linked to any site of action classification but are specific for individual chemicals or chemical groupings. Despite this, alternation of compounds from different chemical classes remains a viable management technique.

To delay insecticide resistance

- Avoid exclusive repeated use of insecticides from the same chemical subgroup.
- Integrate other control methods (chemical, cultural, biological) into insect control programs.

For further information contact your local distributor.

#### **GENERAL INFORMATION**

• Do not apply this product through any type of irrigation system.

Pyriproxyfen Insect Growth Regulator is intended for use in Insect Pest Management (IPM) or Insect Resistance Management (IRM) programs. Pyriproxyfen will not control insect adults, and it is recommended to be used in combination and/or rotation with other IPM or IRM materials. Contact your local state extension service for details.

Pyriproxyfen acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical <u>contact</u> insecticides.

#### **ARTICHOKE (GLOBE)**

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Artichoke, Globe	Artichoke Plum Moth Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.	
	<ul> <li>insecticides to comply w Resistance Managemen</li> <li>Do not apply within 7</li> <li>Do not make more th season.</li> <li>Do not exceed 20 fl of Do not apply earlier t</li> <li>Regardless of formul acre per season.</li> <li>Do not plant any crop</li> </ul>	n 7 days of harvest. e than 2 Pyriproxyfen 0.86 EC Ag applications per growing fl oz of Pyriproxyfen 0.86 EC Ag per acre per season. er than 14 days after last Pyriproxyfen 0.86 EC Ag treatment. nulation do not apply more than 0.134 lb pyriproxyfen per rop other than those with registered pyriproxyfen uses in her than 30 days after the last application.		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.
<ul> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 20 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> </ul>		
	<ul> <li>Whitefly</li> <li>Do not apply within</li> <li>Do not make more season.</li> <li>Do not exceed 20 f</li> <li>Do not apply earlie</li> <li>Regardless of form per season.</li> <li>Do not plant any cr areas sooner than</li> </ul>	<ul> <li>PESTS PER ACRE</li> <li>Whitefly 8 to 10 fl oz</li> <li>8 to 10 fl oz</li> <li>9 Do not apply within 7 days of harvest.</li> <li>9 Do not apply within 7 days of harvest.</li> <li>9 Do not make more than 2 Pyriproxyfen 0.86 season.</li> <li>9 Do not exceed 20 fl oz of Pyriproxyfen 0.86</li> <li>9 Do not apply earlier than 14 days after last</li> <li>9 Regardless of formulation do not apply mor per season.</li> <li>9 Do not plant any crop other than those with</li> </ul>

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### BANANA AND PLANTAIN

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Banana Plantain	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	13 to 16 fl oz	Apply with air or ground equipment in adequate water for uniform coverage: By Air: 3 to 10 gals/A By Ground:10 to 50 gals/A	
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Only whole fields should be treated.	
	insecticides to comply w	en 0.86 EC Ag may be mixed and/or alternated with commonly used es to comply with local Integrated Pest Management (IPM) and Insect e Management (IRM) programs.		
· .	<ul> <li>Do not make more th</li> <li>Do not exceed 48 fi c</li> <li>Regardless of formul season.</li> </ul>	nin 14 days of harvest. re than 3 Pyriproxyfen 0.86 EC Ag applications per growing season. 8 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season. rmulation do not apply more than 0.327 lb. pyriproxyfen per acre per		
	Do not plant any crop		Pyriproxyfen 0.86 EC Ag treatment. registered pyriproxyfen uses in treated plication.	

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to three applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 13 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### BERRIES (Crop Group 13)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPSPESTSRATE PER ACRESPECIAL INSTRUCTIONSBerries: Bingleberry Blackberry including Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Cheyenne Blackberry Dewberry Dewberry Hulbery Hulberry Blackserry inchement Cheyenne Blackberry Creyenen Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Coryberry Dewberry Humalayaberry Hulberry Hulberry Blackserry CoryberryCherokee Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Cheyenne Blackberry Dewberry Humalayaberry Hulberry Lowberry Lowberry Lowberry Deketorry Cheyenne Blackberry CoryberryCheyenne State St		<u> </u>	PRODUCT		
Berries:         Cherry Fruitworm         PER ACRE           Bingleberry         Cherry Fruitworm         16 fl oz         Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate cortrol. It is essential to use adequate water volume to ensure thorough coverage.           Bingleberry         Cherry Fruitworm         16 fl oz         Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate cortrol. It is essential to use adequate water volume to ensure thorough coverage.           Cheryberry         Cheryberry         Fruitworm         Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide, at 10 – 14 day intervals, may be needed under high population pressure or sustained moth flight.           Hulberry         Lucretiaberry         Lecanium Scale: Apply at either dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge.           Neetorberry         Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local integrated Pest Management (IPM) and insect Resistance Management (IRM) programs.           Bueberry         Do not apply watin 7 days of harvest.         Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag applications per growing season.           Ungonberry	CROPS	PESTS		SPECIAL INSTRUCTIONS	
Berries: Bingleberry Blackberry Dirksen thornless berry Hulberry Lavacaberry Cheyenne Blackberry Cheyenne Blackberry Cheyenry Bakeberry Cheyenry Blackberry Cheyenry Blackberry Dirksen thornless berry Himalayaberry Hulberry Lavacaberry Cheyenry Blackberry Cheyenry Blackberry Cheyenry Blackberry Cheyenry Blackberry Cheyenry Blackberry Cheyenry Blackberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lavacaberry Cheyenry Dirksen thornless berry Hulberry Lucretiaberry Marionberry Nectorberry Olalieberry Cheyenne Blackberry Youngbery Blueberry Currant Elderberry Gooseberry Huckleberry Currant Elderberry Cooseberry Lingonberry					
CurrantResistance Management (IRM) programs.ElderberryDo not apply within 7 days of harvest.GooseberryDo not apply within 7 days of harvest.HuckleberryDo not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.JuneberryDo not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.LingonberryDo not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.	Berries: Bingleberry Blackberry including Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Chesterberry Cheyenne Blackberry Coryberry Darrowberry Dewberry Dirksen thornless berry Himalayaberry Hullberry Lavacaberry Lowberry Lucretiaberry Mommoth Blackberry Marionberry Nectorberry Olallieberry Oregon Evergreen Berry Phenomenalberry Rangeberry Ravenberry Shawnee Blackberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	PER ACRE 16 fl oz	<ul> <li>Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.</li> <li>Fruitworms: Apply when egg laying begins and again at petal fall. Additional applications of another insecticide, at 10 – 14 day intervals, may be needed under high population pressure or sustained moth flight.</li> <li>Lecanium Scale: Apply at either dormant, delayed dormant or an inseason cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.</li> </ul>	
<ul> <li>Gooseberry Huckleberry Juneberry Lingonberry Loganberry Raspberry, (black and red)</li> <li>Do not apply within 7 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> </ul>	Currant	insecticides to comply	y with local Integrate	ed Pest Management (IPM) and Insect	
<ul> <li>Huckleberry Juneberry</li> <li>Lingonberry</li> <li>Loganberry</li> <li>Raspberry, (black and red)</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> </ul>	-	Do not apply withi	n 7 days of harvest		
Juneberryseason.LingonberryDo not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.LoganberryDo not apply earlier than 14 days after last Pyriproxyfen 0.86 EC AgRaspberry, (black and red)treatment.					
<ul> <li>Loganberry</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> </ul>		season.			
Raspberry, (black and red) treatment.		Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.			
			er than 14 days afte	er last Pyriproxyfen 0.86 EC Ag	
I Salat Le Regardless of formulation do not apply more than 0.218 lb pyriprovuton por			<i>.</i>		
acre per season.	Salal	-	mulation do not app	ly more than 0.218 lb pyriproxyfen per	

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

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#### BRASSICA LEAFY VEGETABLES (Crop Group 5)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

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CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Brassica Leafy Vegetables: Broccoli Broccoli Raab (rapini) Brussels Sprouts Cabbage Cauliflower Cavalo Broccolo Chinese Broccoli (gai lon) Chinese Cabbage (bok choy and napa) Chinese Mustard (gai choy) Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates.
Rape Greens Turnip Greens			Only whole fields should be treated.
	<ul> <li>season.</li> <li>Do not exceed 20 fl c</li> <li>Do not apply earlier the treatment.</li> <li>Regardless of formulacre per season.</li> <li>Do not plant any crop</li> </ul>	aan 2 Pyriproxyfen 0.86 oz Pyriproxyfen 0.86 EC han 14 days after last P lation do not apply more	EC Ag applications per growing Ag per acre per season. yriproxyfen 0.86 EC Ag than 0.134 lb pyriproxyfen per egistered pyriproxyfen uses in

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### BULB VEGETABLES (Crop Group 3)

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Bulb Vegetables: Garlic Garlic, Great Headed Leek Onion, Dry Bulb Onion, Green Onion, Welsh Shallot	Onion Thrips Western Flower Thrips	8 fl oz	FOR SUPPRESSION OF THRIPS: Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). Begin applications when thrips reach threshold levels per University/Extension. Thorough coverage is critical for adequate water volume to ensure thorough coverage.
	<ul> <li>Do not apply within 3 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growin season.</li> <li>Do not exceed 16 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatm</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per per season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> </ul>		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

## CITRUS (Including Ugli Fruit and White Sapote) (Crop Group 10)

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Citrus Ugli Fruit White Sapote	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl oz	Apply with ground equipment in 200 to 1500 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.	
			Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 <sup>nd</sup> or 3 <sup>rd</sup> generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.	
			Pyriproxyfen 0.86 EC Ag may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates.	
			NOTE: For scale apply only one application during emergence of scale crawlers per calendar year.	
	Citrus Black Fly Citrus Leafminer Citrus Whitefly	10 fl oz	Apply with ground application in 200 to 1500 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.	
			Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.	
	Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.			
	<ul> <li>Do not exceed 26 f</li> <li>Do not apply earlie</li> </ul>	than 2 Pyriproxyfen 0.8 l oz of Pyriproxyfen 0.8 r than 21 days after last	6 EC Ag applications per growing season. 6 EC Ag per acre per season. Pyriproxyfen 0.86 EC Ag treatment. ore than 0.134 lb pyriproxyfen per acre per	

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# CITRUS (Crop Group 10) including Ugli Fruit and White Sapote - continued

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**MANAGING INSECT RESISTANCE**: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state, and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

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#### COTTON

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Cotton	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	8 to 10 fl oz	Apply with air or ground equipment in adequate water for uniform coverage:	
	Sweetpotato Whitefly	Do not apply less than 8 fl oz/A	By Air: 3 to 10 gals/A By Ground: 10 to 50 gals/A	
			HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.	
			Make only one application per growing season.	
			Begin application when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).	
			Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
	Do not apply within 28 c			
	Do not make more than     Do not exceed 10 fl oz l	Do not make more than 1 Pyriproxyfen 0.86 EC Ag application per growing season.		
	<ul> <li>Do not exceed 10 fl oz l</li> <li>Regardless of formulation</li> </ul>	Do not exceed 10 fl oz Pyriproxyfen 0.86 EC Ag per acre per season. Regardless of formulation do not apply more than 0.067 lb pyriproxyfen per acre per season.		
		other than those with registered pyriproxyfen uses in treated areas sooner		

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to one application per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### CRANBERRY

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Cranberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or at least 20 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			<b>Fruitworms:</b> Apply when egg laying begins and again at petal fall. Additional applications of another insecticide, at 10 to 14 day intervals, may be needed under high population pressure or sustained moth flight.	
			Lecanium Scale: Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.	
	Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IF programs.			
	<ul> <li>Do not make more t</li> <li>Do not exceed 32 fl</li> <li>Do not apply earlier</li> </ul>	Do not apply within 7 days of harvest. Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season. Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season. Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment. Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season.		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### CUCURBITS (Crop Group 9)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Cucurbits: Balsam Apple Balsam Pear Bitter Melon Cantaloupe Chayote Chinese Cucumber Chinese Waxgourd Citron Melon Cucumber Edible Gourd Gherkin <i>Momordica</i> spp. Muskmelon Pumpkin Summer Squash Watermelon Winter Squash	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz Do not apply less than 8 fl oz/A	<ul> <li>Apply with air or ground equipment in adequate water for uniform coverage: By Air:</li></ul>	
	<ul> <li>Do not apply within 7 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 20 fl oz Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per a per season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> </ul>			

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

### FRUITING VEGETABLES (Crop Group 8)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Fruiting Vegetables: Eggplant Ground Cherry Okra	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly	8 to 10 fl oz Do not apply less than 8 fl oz/A of Pyriproxyfen when	Apply with air or ground equipment in adequate water for uniform coverage: By Air:3 to10 gals./A. By Ground:10 to 50 gals/A.	
Pepino Pepper Tomatillo	Sweetpotato Whitefly	used as a stand alone application.	HIGHER WATER VOLUMES PROVIDE	
Tomato			Begin application when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
	Banded Wing Whitefly	6 to 8 fl oz	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gals/A by	
	Cabbage Looper Green Peach	+	ground). Make application when eggs or insects first appear. If control is needed	
	Aphid Greenhouse Whitefly	Orthene <sup>®</sup> 75 S 0.66 to 1.33 lb/A	during this period use an alternate insecticide registered for the target pest.	
	(immatures & adults) Silverleaf Whitefly	or Orthene 97	Pyriproxyfen 0.86 EC Ag may also be mixed or alternated with commonly used insecticides to comply with local IPM	
	Sweetpotato Whitefly	0.5 to 1.0 lb/A	programs.	
	Tobacco Hornworm		Comply with all applicable directions, restrictions and precautions on the registered labels for Orthene 75 S or Orthene 97.	
	<ul> <li>Do not apply within 1 day of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per gr</li> <li>Do not exceed 20 fl oz Pyriproxyfen 0.86 EC Ag per acre per season.</li> </ul>			
	<ul> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acre p season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> </ul>			

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CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Fruiting Vegetables: Tomato	Banded Wing Whitefly Beet Armyworm Fruitworm Greenhouse Whitefly (immatures & adults) Potato Aphid Silverleaf Whitefly Sweetpotato Whitefly Thrips	6 to 8 fl oz + Monitor <sup>®</sup> 4 Spray 24 fl oz +	EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF GEMINIVIRUS: Apply as a tank mix with ground equipment for uniform coverage (10 to 120 gals/A). Make application when scouting first indicates adult whiteflies are on young plants. <b>NOTE:</b> This may	
	Tomato Pinworm Yellowstriped Armyworm	Danitol <sup>®</sup> 2.4 EC Spray 10-2/3 fl oz	result in treatment immediately following transplanting.	
			MID TO LATE SEASON WHITEFLY CONTROL PROGRAM FOR PREVENTION OF IRREGULAR FRUIT RIPENING: Apply as a tank mix with ground equipment for uniform coverage (20 to 120 gals/A by ground). Make application when scouting indicates whiteflies are present. Pyriproxyfen 0.86 EC Ag may also be mixed or alternated with commonly used insecticides to comply with local IPM programs. Comply with all applicable directions, restrictions and precautions on the registered labels for Monitor 4 Spray and Danitol 2.4 EC Spray.	
	Do not apply within 14 da			
	<ul> <li>Do not make more than 2</li> <li>Do not exceed 16 fl oz P</li> </ul>	2 Pyriproxyten 0.86 EC Ag	applications per growing season.	
	<ul> <li>Do not exceed 16 fl oz Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatmer</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per a season.</li> </ul>			
	<ul> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treate areas sooner than 30 days after the last application.</li> </ul>			

FRUITING VEGETABLES (Crop Group 8) - continued

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**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Grape	Glassy-Winged Sharpshooter Grape Berry Moth Lecanium Scale	16 fl oz	Apply with ground equipment as a full coverage spray (50 to 200 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			<b>Lecanium Scale:</b> Apply at either dormant, delayed dormant or an in-season cover spray. At dormant, delayed dormant you may use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in-season spray. In a cover spray make applications when scale crawlers first emerge.	
			Follow local recommendations regarding in- season use and rates of oil in your area.	
	<ul> <li>Do not apply within 21 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 32 fl oz Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation, do not apply more than 0.218 lb active of pyriproxyfen per acre per season.</li> </ul>			

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) (Crop Group 4)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leafy Vegetables (Except Brassica Vegetables): Amaranth (Chinese Spinach) Arugula (Roquette) Cardoon Celery Celery, Chinese Celtuce Chervil Chrysanthemum, Edible-Leaved Chrysanthemum, Garland Corn Salad Cress, Garden Cress, Upland Dandelion, Dock (Sorrel) Endive (Escarole) Fennel, Florence	fy Vegetables (Except ssica Vegetables): aranth (Chinese Spinach) gula (Roquette) doon ery ery, Chinese tuce ervil ysanthemum, Edible-Leaved ysanthemum, Garland n Salad ss, Garden ss, Upland delion, k (Sorrel)Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly8 to 10 fl oz adequate water for u coverage (10 to 50 g Whitefly HIGHER WATER VO MAY PROVIDE IMP INSECT CONTROLBegin applications w whiteflyWhitefly Sweetpotato WhiteflyBegin applications w whiteflies reach three per University/Extense recommended biller in Salad	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations Under severe pressure, use the higher recommended rates. Only whole fields should be treated.	
Lettuce, Head and Leaf Orach Parsley Purslane, Garden Purslane, Winter Radicchio (Red Chicory) Rhubarb Spinach New Zealand Spinach Vine Spinach Swiss Chard	<ul> <li>growing season.</li> <li>Do not exceed 2 season.</li> <li>Do not apply ear treatment.</li> <li>Regardless of fo pyriproxyfen per</li> <li>Do not plant any</li> </ul>	ore than 2 Pyripro 0 fl oz Pyriproxyfe lier than 14 days rmulation do not acre per season. crop other than t preas sooner than	xyfen 0.86 EC Ag applications per en 0.86 EC Ag per acre per after last Pyriproxyfen 0.86 EC Ag apply more than 0.134 lb hose with registered pyriproxyfen 30 days after the last application.

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# LEAVES OF ROOT & TUBER VEGETABLES (Crop Group 2)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Leaves of Root & Tuber Vegetables: Beet, Garden Burdock, Edible Carrot Cassava, Bitter Cassava, Sweet Celeriac Chervil, Turnip-Rooted Chicory Dasheen (Taro) Parsnip Radish Radish Radish, Oriental (Daikon) Rutabaga Salsify, Black Sugar Beet Sweet Potato Tanier Turnip Yam, True	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	<ul> <li>Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).</li> <li>HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.</li> <li>Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).</li> <li>Under severe pressure, use the higher recommended rates.</li> <li>Only whole fields should be treated.</li> </ul>
	<ul> <li>season.</li> <li>Do not exceed 16 fl</li> <li>Do not apply earlier</li> <li>Regardless of form per season.</li> </ul>	than 2 Pyriproxyfen oz Pyriproxyfen 0.8 r than 14 days after ulation do not apply op other than those 30 days after the las ick to graze on treat	ted areas.

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# LEGUME VEGETABLES (Succulent or Dried) (Crop Group 6)

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

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#### LEGUME VEGETABLES (Crop Group 6) - continued

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CROPS	PESTS	RATES PER ACRE	SPECIAL INSTRUCTIONS
Legume Vegetables (any	Banded Wing Whitefly	8 to 10 fl oz	EARLY SEASON WHITEFLY
cultivar of Bean ( <i>Phaseolus</i> ),	Greenhouse Whitefly		PROGRAM: Apply with ground
Field Pea ( <i>Pisum</i> ) and	Silverleaf Whitefly		equipment in adequate water for uniform
Soybean):	Sweetpotato Whitefly		coverage (10 to 50 gals/A. Thorough
Beans (Lupinus):	-		coverage is critical for adequate control.
Grain Lupin			It is essential to use adequate water
Sweet Lupin			volume to ensure thorough coverage.
White Lupin			
White Sweet Lupin			Begin applications when whiteflies reach
Beans (Phaaseolus):			threshold levels per University/Extension
Field Bean			recommendations (e.g. 3 to 5 adults per
Kidney Bean			leaf and/or equivalent levels of
Lima Bean			immatures).
Navy Bean	1		
Pinto Bean			Under severe pressure, use the higher
Runner Bean	• •		recommended rates.
Snap Bean			
Tepary Bean			Only whole fields should be treated.
Wax Bean			
Bean ( <i>Vigna</i> ):			
Adzuki Bean			
Asparagus Bean			
Blackeyed Pea			
Catjang			
Chinese Longbean			
Cowpea			
Crowder Pea			
Moth Bean			
Mung Bean			
Rice Bean			
Southern Pea			
Urd Bean			
Yardlong Bean			
Broad Bean (fava)			
Chickpea (garbanzo)			
Guar			
Jackbean	Durinroy for 0.86 EC Ag ma	v ho mixed and/o	r alternated with commonly used
Lablab Bean			est Management (IPM) and Insect
Lentil	Resistance Management (IF		sat Management (in M) and insect
Pea (Pisum):	Tresistance Manayement (IF	wij programs.	
Dwarf Pea	Do not apply within 7 do	ve of harvort	
Edible-podded Pea	<ul> <li>Do not apply within 7 da</li> <li>Do not make more than</li> </ul>		REC Ag applications per growing access
English Pea			36 EC Ag applications per growing season.
Field Pea			6 EC Ag per acre per season.
Garden Pea			t Pyriproxyfen 0.86 EC Ag treatment.
Green Pea		on do not apply mo	ore than 0.134 lb pyriproxyfen per acre per
Snowpea	season.		
Sugar Snap Pea			h registered pyriproxyfen uses in treated
Pigeon Pea	areas sooner than 30 da		
Soybean	<ul> <li>Do not allow livestock to</li> </ul>	graze treated are	as.
Sword Bean	<ul> <li>Do not use on legume v</li> </ul>	egetables varietie	s grown for livestock feed.

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### OLIVE

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS			
Olive	Black Scale San Jose Scale	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.			
			Apply at either dormant, delayed dormant or an in- season cover spray. At dormant, delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.			
			Under heavy scale pressure, use the higher rate of Pyriproxyfen 0.86 EC Ag.			
	Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local Insect Pest Management (IPM) and Resistance Management (IRM) programs.					
	Do not apply with	<ul> <li>Do not apply within 7 days of harvest.</li> </ul>				
		Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.				
		Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.				
	<ul> <li>Regardless of for</li> </ul>	Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season.				

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### PASTURE GRASS AND RANGELAND

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pasture Grass and Rangeland	Cricket Grasshopper Locust	8 to 10 fl oz	<ul> <li>Apply with air or ground equipment in adequate water for uniform coverage: By Air:</li></ul>
	Do not make m	ore than 2 Pyriproxyfer	recommended rates.
	<ul> <li>season.</li> <li>Do not exceed 20 fl oz Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfe per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag trees.</li> </ul>		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### PAWPAW

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS			
Pawpaw	Scale Whitefly	13 to 16 fl oz	Apply 100 to 400 gals/A with ground equipment. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.			
			<b>Scale:</b> Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. Do not use oil in an in-season spray.			
			In a cover spray make applications when scale crawlers first emerge.			
			Under heavy scale pressure, use the higher rate of Pyriproxyfen.			
	In-season sprays o	In-season sprays of Pyriproxyfen 0.86 EC Ag may not protect fruit from blemishes by scale.				
		I Integrated Pest Manage	or alternated with commonly used insecticides ment (IPM) and Insect Resistance			
	<ul> <li>Do not make m</li> <li>Do not exceed</li> <li>Do not apply ea</li> </ul>	48 fl oz of Pyriproxyfen 0. rlier than 14 days after la	.86 EC Ag applications per growing season. 86 EC Ag per acre per season. st Pyriproxyfen 0.86 EC Ag treatment. hore than 0.327 lb pyriproxyfen per acre per			

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to three applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### PINEAPPLE

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Pineapple	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl òz	Apply with ground equipment in 20 to 50 gals/A. Apply in sufficient water volume for plant size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.	
			Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 <sup>nd</sup> or 3 <sup>rd</sup> generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.	
			Pyriproxyfen 0.86 EC Ag may be applied with superior spray oils at 1/2 to 1%. Follow the manufacturer's directions and recommendations on timing and rates.	
			with commonly used insecticides to comply with nsect Resistance Management (IRM) programs.	
	<ul> <li>local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</li> <li>Do not apply within 1 day of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per calendar year.</li> <li>Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 21 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.</li> </ul>			

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

## POME FRUIT (Crop Group 11)

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**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pome Fruit: Apple Crabapple Loquat Mayhaw Quince	Codling Moth Suppression of: Pandemis Leafroller Obliquebanded	13 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage
	Leafroller		<ul> <li>1st Generation Codling Moth: Apply at Biofix plus 100 degree days (this is usually close to petal fall). Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Pyriproxyfen 0.86 EC Ag. Follow local recommendations regarding in season use and rates of oil in your area.</li> <li>Obliquebanded and Pandemis Leafroller:</li> </ul>
			Apply to the over-wintering larvae at the pink to petal fall tree growth stage. Pyriproxyfen 0.86 EC Ag does not directly control the larvae but inhibits normal pupation and adult emergence.
	Florida Red Scale Lecanium Scale San Jose Scale	13 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			Apply at delayed dormant through pink. For delayed dormant use a superior spray oil at the manufacturer's recommended rate of oil. Under heavy scale pressure, use the higher rate of Pyriproxyfen 0.86 EC Ag.
			<b>Scale:</b> For control in-season, make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve control. Follow local recommendations regarding in-season use and rates of oil in your area.

continued

# POME FRUIT (Crop Group 11) - continued

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CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
<b>Pome Fruit:</b> Appie Crabapple Loquat Mayhaw	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer	10 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gals/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage
Quince	Western Tentiform Leafminer		<b>Leafminers</b> : Apply at peak moth flight for control of 1 <sup>st</sup> or 2 <sup>nd</sup> generation. This usually occurs at pre-pink to pink apple stage for 1 <sup>st</sup> generation and 2 <sup>nd</sup> cover for 2 <sup>nd</sup> generation.
			<b>Rosy Apple Aphid</b> : Apply at 1/2" green apple growth stage.
			<b>Green Apple &amp; Spirea Aphid</b> : Apply when aphids first appear, but before aphids are colonized.
			TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL.
Pear Oriental Pear	Pear Psylla	13 to 16 fl oz	Apply by ground with airblast equipment in 75 to 400 gals/A with a superior spray oil at manufacturer's recommended rates for the stage of growth. It is essential to use adequate water volume to ensure thorough coverage.
			Apply a single application during the delayed dormant to pink stage of growth at 16 fl oz/A or make two applications from delayed dormant through petal fall stage of growth at 13 to 16 fl oz/A. Make application just before sustained egg lay is anticipated.
			DO NOT USE SKIP ROWS DURING APPLICATION.
			For in-season control of pear psylla, use an insecticide recommended for this use.
	Lecanium Scale San Jose Scale	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gals/A at delayed dormant with a superior spray oil at the manufacturer's recommended rates. Under heavy scale pressure, use the higher rate.
			Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
			For control of scale in-season make application in cover sprays when scale crawlers first emerge. The use of oil at the crawler emergence stage has been shown to improve performance. Follow local recommendations regarding in-season use and rates of oil in your area.

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# POME FRUIT (Crop Group 11) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
<b>Pome Fruit:</b> Pear	Codling Moth	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gals/A.		
Oriental Pear	Suppression of: Obliquebanded Leafroller Pandemis Leafroller		<ul> <li>1st Generation Codling Moth: Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Pyriproxyfen 0.86 EC Ag. Follow local recommendations regarding in-season use and rates of oil in your area.</li> <li>For additional generations apply other insecticides registered for Codling Moth Control.</li> </ul>		
	<ul> <li>Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</li> <li>Do not apply within 45 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per acre per season.</li> </ul>				

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

#### POMEGRANATE

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Pomegranate	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	13 to 16 fl oz	Apply with air or ground equipment in adequate water for uniform coverage: By Air: 3 to 10 gals/A By Ground: 10 to 50 gals/A HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.		
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).		
			Only whole fields should be treated.		
	<ul> <li>Do not apply within 14 days of harvest.</li> <li>Do not make more than 3 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 48 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.327 lb pyriproxyfen per acre per season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> </ul>				

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to three applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 13 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# ROOT AND TUBER VEGETABLES-(Crop Group 1)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS	
Root & Tuber Vegetables: Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Beet, Garden Beet, Sugar Burdock, Edible Canna, Edible Carnot Cassava, (bitter and sweet) Celeriac Chaoyote (root) Chervil, Turnip-rooted Chicory Chufa Dasheen (taro) Ginger Ginseng Horseradish Leren Parsley, Turnip-rooted Parsnip	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 fl oz	Apply with ground equipment in adequate water for uniform coverage (20 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.	
Potato Radish Radish, Oriental (dai kon) Rutabaga Salsify Salsify, Black Salsify, Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam, Bean Yam, True	<ul> <li>Do not apply within 7 days of harvest.</li> <li>Do not make more than 2 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 16 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acre per season.</li> <li>Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.</li> <li>Do not allow livestock to graze treated areas.</li> </ul>			

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#### **ROOT AND TUBER VEGETABLES (Crop Group 1)** - continued

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**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

#### SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE) (Crop Group 13-07E)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Small Fruit Vine Climbing Crops: Berry, Schisandra Gooseberry Grape, Amur River Kiwifruit, Fuzzy Kiwifruit, Hardy Maypop and cultivars, varieties	Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
and/or hybrids of these.			Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in- season use and rates of oil in your area.	
	<ul> <li>used insecticides to and Insect Resistant</li> <li>Do not apply wit</li> <li>Do not make mo growing season.</li> <li>Do not exceed 3</li> <li>Do not apply ear treatment.</li> </ul>	0.86 EC Ag may be mixed and/or alternated with commonly des to comply with local Integrated Pest Management (IPM) esistance Management (IRM) programs. ply within 30 days of harvest. ake more than 2 Pyriproxyfen 0.86 EC Ag applications per eason. ceed 32 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season. ply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag ss of formulation do not apply more than 0.218 lb pyriproxyfen		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

### STONE FRUIT (Crop Group 12)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Stone Fruit: Apricot Cherry Chickasaw Plum Damson Plum	Lecanium Scale San Jose Scale	13 to 16 fl oz	Apply in 100 to 400 gals/A. with ground equipment. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.
Fresh Prune Japanese Plum Nectarine Peach Plum	Suppression of: Peach Twig Borer Oriental Fruit Moth		<b>Scale:</b> Apply at dormant, delayed dormant or as an in-season cover spray. At dormant, delayed dormant, use a spray oil at the manufacturer's recommended oil rate.
Plumcot Prune			Under heavy scale pressure, use the higher rate of Pyriproxyfen.
			<b>Peach Twig Borer:</b> Pyriproxyfen 0.86 EC Ag has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays. Use a spray oil at the manufacturer's recommended rate for the stage of crop growth.
	In-season sprays of Pyriproxyfen 0.86 EC Ag may not protect fruit from blemishes by scale.		
	<ul> <li>Pyriproxyfen 0.86 EC Ag may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management IPM and Insect Resistance Managemen (IRM) programs.</li> <li>Do not apply within 14 days of harvest.</li> <li>Do not make more than 3 Pyriproxyfen 0.86 EC Ag applications per growing season.</li> <li>Do not exceed 48 fl oz of Pyriproxyfen 0.86 EC Ag per acre per season.</li> <li>Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag treatment.</li> <li>Regardless of formulation do not apply more than 0.327 lb pyriproxyfen per acre per season.</li> </ul>		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to three applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

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## STRAWBERRY

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag exhibits translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Strawberry	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	10 fl oz	Apply with ground equipment as a full coverage spray (100 to 400 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).
			Under severe pressure, use the higher recommended rates.
			Only whole fields should be treated.
	<ul> <li>Do not exceed 20 fl c</li> <li>Do not apply earlier the Regardless of formul season.</li> </ul>	an 2 Pyriproxyfen 0.8 bz Pyriproxyfen 0.86 E han 30 days after last ation, do not apply mo o other than those with	6 EC Ag applications per growing season. EC Ag per acre per season. Pyriproxyfen 0.86 EC Ag treatment. ore than 0.134 lb of pyriproxyfen per acre per n registered pyriproxyfen uses in treated areas

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Integrated Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# TREE NUTS (Crop Group 14)

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROP	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Tree Nuts: Almond	Black Scale San Jose Scale Suppression of: Peach Twig Borer	13 to 16 fl oz	<ul> <li>Apply with ground equipment in 100 to 400 gals/A. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.</li> <li>Apply at either dormant, delayed dormant or an in-season cover spray. At dormant, delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding inseason use and rates of oil in your area.</li> </ul>
			Pyriproxyfen 0.86 EC Ag has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.
	Do not exceed 16 fi	than 1 Pyriproxyfen 0.86 l oz of Pyriproxyfen 0.86	EC Ag application per growing season. EC Ag per acre per season than 0.109 lb pyriproxyfen per acre

continued

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices. Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to one application per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# TREE NUTS (Crop Group 14) - continued

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
<b>Tree Nuts:</b> Beechnut Brazil Butternut Cashew	Codling Moth Dusky Veined Aphid Walnut Aphid	16 fl oz	Apply with ground equipment in 100 to 400 gals/A. Apply in sufficient water volume for tree size. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Chestnut Chinquapin Filbert (Hazelnut) Hickory Macadamia Pecan Pistachio Walnut			<b>1st Generation Codling Moth:</b> Apply at Biofix plus 100 degree days. Make a second application 14 to 21 days later or timed to coincide with peak moth flights. For subsequent applications, if needed, apply other insecticides registered for Codling Moth control. The addition of oil has been shown to increase Codling Moth activity of Pyriproxyfen. Follow local recommendations regarding in-season use and rates of oil in your area.
	Black Scale Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale Suppression of: Peach Twig Borer	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gals/A at either dormant, delayed dormant or an in- season cover spray. The addition of a superior spray oil at dormant or delayed dormant may improve scale control. However, do not use a spray oil in oil sensitive crops such as Walnut. Follow manufacturer's recommendations regarding use and rates of oil for your area. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area. Under heavy scale pressure, use the higher rate. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better coverage.
	<ul> <li>comply with local Ir (IRM) programs.</li> <li>Do not apply with</li> <li>Do not make m</li> <li>Do not exceed 3</li> <li>Do not apply ea</li> </ul>	thin 21 days of harvest ore than 2 Pyriproxyfer 32 fl oz of Pyriproxyfer rlier than 14 days after	nd/or alternated with commonly used insecticides to ement (IPM) and Insect Resistance Management

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

# --TROPICAL & SUBTROPICAL FRUIT

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

CROPS	PEST	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Tropical & Subtropical Fruit: Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee Mamey Sapote	Scale	Scale16 fl ozApply with ground or air equipment as a full coverage spray (minimum of 5 gals, by air or 50 gals/A by ground). Thoroug coverage is critical for adequate control is essential to use adequate water volume to ensure thorough coverage.Apply at either dormant, delayed dormat or an in-season cover spray. At dormar or delayed dormant use a spray oil at th manufacturer's recommended oil rate. a cover spray make applications when scale crawlers first emerge. Follow loca recommendations regarding in-season use and rates of oil in your area.		
Mango Passionfruit Papaya Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple Starfruit Sugar Apple Wax Jambu	<ul> <li>used insectici and Insect Re</li> <li>Do not ap Do not ma growing se</li> <li>Do not exe</li> <li>Do not exe</li> <li>Do not ap treatment.</li> <li>Regardles</li> </ul>	ides to comply with lo esistance Manageme ply within 14 days of ake more than 2 Pyrip eason. ceed 32 fl oz of Pyrip ply earlier than 14 da		

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant Pyriproxyfen 0.86 EC Ag insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

# WATERCRESS

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag exhibits translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

CROP	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Watercress	Sharpshooters Whitefly	8 to 10 fl oz	Apply with ground equipment as a full coverage spray (10 to 50 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
			Begin applications when whiteflies reach threshold levels per University/Extension recommendations	
			Under severe pressure, use the higher recommended rates.	
			Only whole fields should be treated.	
	Do not apply with a second secon	y within 7 days of harvest. e more than 2 Pyriproxyfen 0.86 EC Ag applications per growing		
	<ul> <li>Do not make m season.</li> </ul>			
	Do not exceed	eed 20 fl.oz Pyriproxyfen 0.86 EC Ag per acre per season.		
		ly earlier than 14 days after last Pyriproxyfen 0.86 EC Ag tre of formulation, do not apply more than 0.134 lb of pyriproxy ason.		
	Do not plant an areas sooner the sooner	y crop other than th nan 30 days after th	•••	
	<ul> <li>Do not apply this</li> </ul>	product with an adju	ivant.	

**MANAGING INSECT RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Integrated Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# STORAGE AND DISPOSAL

# PESTICIDE STORAGE

Store in a cool dry place.

Keep pesticide in original container.

Keep container closed when not in use.

Do not put concentrate or dilute into food or drink containers.

Not for use or storage in or around the home.

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

For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

#### PESTICIDE DISPOSAL

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

#### **CONTAINER DISPOSAL**

Non-refillable 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 1/4 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. Then 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 buring. If burned, stay out of smoke.

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#### Danitol is a restricted use product.

Manufactured for: Valent U.S.A. Corporation P.O. Box 8025 Walnut Creek, CA 94596-8025 www.valent.com

Made in U.S.A.

EPA Reg. No. 59639-160 EPA Est. \_\_\_\_\_

059639-00160.20081204.PYRI 0.86 EC Ag.IR4.FINAL



# PYRIPROXYFEN 0.86 AG INSECT GROWTH REGULATOR

Supplemental Label

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EPA Reg. No. 59639-160

# PYRIPROXYFEN 0.86 AG FOR USE ON ARTICHOKE (GLOBE), ASPARAGUS, LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES), LEAVES OF ROOT & TUBER VEGETABLES, SMALL FRUIT VINE **CLIMBING CROPS (EXCEPT GRAPE) AND WATERCRESS**

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY** STATEMENTS. DIRECTIONS AND RESTRICTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

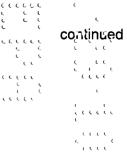
THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION.

**READ THE LABEL AFFIXED TO THE CONTAINER FOR PYRIPROXYFEN 0.86 AG INSECT GROWTH REGULATOR BEFORE APPLYING. USE OF PYRIPROXYFEN 0.86 AG INSECT GROWTH REGULATOR ACCORDING TO THIS LABELING IS SUBJECT TO THE USE** PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER. FOR PYRIPROXYFEN 0.86 AG INSECT GROWTH REGULATOR.

# **ARTICHOKE (GLOBE)**

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an Insect Growth Regulator (IGR) and activity depends on the insect's development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag Insect Growth Regulator does exhibit translaminar movement which means that Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside i.c. of the leaves where whitefly are present.



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# **ARTICHOKE (GLOBE)** continued

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Artichoke Plum Moth Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.

Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.

- Do not apply within 7 days of harvest.
- Do not make more than 2 Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applications per growing season.
- Do not exceed 20 fl oz of Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.



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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Whitefly	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g., 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.
	pply within 7 days of take more than 2 Pyr	harvest. iproxyfen 0.86 EC Ag Insect Growth Regulator applications per

- growing season.
  Do not exceed 20 fl oz of Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides or insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz per acre for whitefly control because reduced cates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

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## LEAFY VEGETABLES (EXCEPT BRASSICA VEGETABLES) (Crop Group 4)

Amaranth (Chinese Spinach); Arugula (Roquette); Cardoon; Celery; Celery, Chinese; Celtuce; Chervil; Chrysanthemum, Edible-Leaved; Chrysanthemum, Garland; Corn Salad; Cress, Garden; Cress, Upland; Dandelion; Dock (Sorrel); Endive (Escarole); Fennel Florence; Lettuce, Head and Leaf; Orach; Parsley; Purslane, Garden; Purslane, Winter; Radicchio (Red Chicory); Rhubarb; Spinach; New Zealand Spinach; Vine Spinach; Swiss Chard

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl oz	<ul> <li>Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).</li> <li>HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.</li> <li>Begin applications when whiteflies reach threshold levels per University/Extension recommendations.</li> <li>Under severe pressure, use the higher recommended</li> </ul>
		Only whole fields should be treated.

- Do not apply within 14 days of harvest.
- Do not make more than 2 Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applications per growing season.
- Do not exceed 20 fl oz Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.134 lb pyriproxyfen per agree per season.
- Do not plant any crop other than those with registered pyriproxyfen uses it treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING WHITEFLY RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect conservation of the same class of insection of the similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Conservation of the same classes of insection of the same classes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below

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8 fl oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

# LEAVES OF ROOT & TUBER VEGETABLES (Crop Group 2)

Beet, Garden; Burdock, Edible; Carrot; Cassava, Bitter; Cassava, Sweet; Celeriac; Chervil, Turnip-Rooted; Chicory; Dasheen (Taro); Parsnip; Radish; Radish, Oriental (Daikon); Rutabaga; Salsify, Black; Sugar Beet; Sweet Potato; Tanier; Turnip; Yam, True

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PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse	8 to 10 fl oz	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A).
Whitefly Silverleaf Whitefly Sweetpotato		HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL.
Whitefly		Begin applications when whiteflies reach threshold levels per University/Extension recommendations (e.g. 3 to 5 adults per leaf and/or equivalent levels of immatures).
		Under severe pressure, use the higher recommended rates.
		Only whole fields should be treated.
Do not apply within 7 days of harvest.		

- Do not make more than 2 Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applications per growing season.
- Do not exceed 16 fl oz Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.109 lb pyriproxyfen per acreater seasor.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas consoner than 30 days after the last application.
- Do not allow livestock to graze on treated areas.
- Do not apply this product with an adjuvant.

**MANAGING WHITEFLY RESISTANCE:** Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance

management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates below 8 fl oz/A for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IPM) and Insect Resistance Management (IRM) recommendations. Read and follow all product labels before applying any insecticide.

SMALL FRUIT VINE CLIMBING CROPS (EXCEPT GRAPE)(Crop Group 13-07E) Berry, Schisandra; Gooseberry; Grape, Amur River; Kiwifruit, Fuzzy; Kiwifruit, Hardy; Maypop; and cultivars, varieties and/or hybrids of these

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PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gals/A by air or 50 gals/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage. Apply at either dormant, delayed dormant or an in-season cover spray. At dormant or delayed dormant use a spray oil at the manufacturer's recommended oil rate. In a cover spray make applications when scale crawlers first emerge. Follow local recommendations regarding in-season use and rates of oil in your area.
		ect Growth Regulator may be mixed and/or alternated with commonly with local Integrated Pest Management (IPM) and Insect Resistance

Management (IRM) programs.

- Do not apply within 30 days of harvest.
- Do not make more than 2 Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applications per growing season.
- Do not exceed 32 fl oz of Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.218 lb pyriproxyfen per ؤُرتجُ per season.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant insect strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Follow local, state and

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federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

# WATERCRESS

**GENERAL:** Pyriproxyfen 0.86 EC Ag Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Pyriproxyfen 0.86 EC Ag is an insect growth regulator (IGR) and activity depends on the insects' development, evidence of activity will be slower than typical contact insecticides.

Pyriproxyfen 0.86 EC Ag Insect Growth Regulator exhibits translaminar movement which means that Pyriproxyfen 0.86 EC Ag applied to the upper surfaces of the leaves will move to the lower surface of the leaf. This translaminar movement is very important to chemical control of whitefly since one of the major obstacles is getting the product to the underside of the leaves where whitefly are present.

PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Sharpshooters Whitefly	8 to 10 fl oz	Apply with ground equipment as a full coverage spray (10 to 50 gals/A). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
		Begin applications when whiteflies reach threshold levels per University/Extension recommendations Under severe pressure, use the higher recommended rates.
Do not apply	within 7 days o	Only whole fields should be treated. f harvest.

- Do not make more than 2 Pyriproxyfen 0.86 EC Ag Insect Growth Regulator applications per growing season.
- Do not exceed 20 fl oz Pyriproxyfen 0.86 EC Ag Insect Growth Regulator per acre per season.
- Do not apply earlier than 14 days after last Pyriproxyfen 0.86 EC Ag Insect Growth Regulator treatment.
- Regardless of formulation, do not apply more than 0.134 lb of pyriproxyfen per acre per season.
- Do not plant any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.
- Do not apply this product with an adjuvant.

MANAGING INSECT RESISTANCE: Repeated use of the same class of insecticides with similar modes of action can lead to the buildup of resistant whitefly strains. To optimize resistance management practices, Valent U.S.A. Corporation is restricting Pyriproxyfen 0.86 EC Ag Insect conduct Growth Regulator to two applications per growing season. Pyriproxyfen 0.86 EC Ag Insect Growth Regulator may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Valent also does not recommend using rates we below 8 fl oz per acre for whitefly control because reduced rates can lead to a greater potential for resistance development. Follow local, state and federal Integrated Pest Management (IRM) and the functional classes of action. Read and follow all product labels before applying any insecticide.

# PLEASE CONTACT VALENT U.S.A. CORPORATION AT 800-6-VALENT (682-5368) TO DETERMINE IF THIS USE IS REGISTERED IN YOUR STATE.

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