# **NET CONTENTS 1 GALLON**

**Active Ingredient** By Wt \*Pyriproxyfen . . . 100.00% Total \*2-[1-methyl-2-(4-phenoxyphenoxy)ethoxy]pyridine

Contains 0.86 pound ai per gallon. Contains aromatic petroleum distillates.

EPA Reg. No. 59639-95 EPA Est. 39578-TX-1

KEEP OUT OF REACH OF CHILDREN

PRECAUTIONARY STATEMENTS





### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes skin and eve irritation. Do not get on skin, in eyes or on clothing. Harmful if inhaled, swallowed or absorbed through skin. Avoid contact with skin, eves or clothing. Avoid breathing vapor or spray mist. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

#### FIRST AID

If on skin: Take off contaminated clothing.

Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for

further treatment advice

If in eyes: Hold eve open and rinse slowly and gently with water for 15-20 minutes.

> Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for

treatment advice

Immediately call a poison control center swallowed: or doctor.

Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

Move person to fresh air. If inhaled:

> If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### 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.

### NOTE TO PHYSICIANS

If indested, probable mucosal damage may contraindicate the use of gastric lavage. This product contains a light hydrocarbon liquid; ingestion or subsequent vomiting can result in aspiration of this product, which can cause pneumonitis.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear: coveralls over short-sleeved shirt and short pants or long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate or Viton ≥ 14 mils, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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.

### 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 DIREC-TIONS, 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 (WPS), 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

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

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls over short-sleeved shirt and short pants, chemical-resistant gloves, such as barrier laminate or Viton  $\geq$  14 mils, chemical-resistant footwear plus socks, chemical-resistant headgear for overhead exposure.

### 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, (continued)

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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 control 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 ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLI-CATION AND USE ARE ASSUMED BY THE BUYER. Valent shall not be responsible for losses or damages (including, but not limited to, loss of vield, 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.

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### 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, LOSS-ES. 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 allowed by 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, Esteem<sup>®</sup> 0.86 EC Insect Growth Regulator is a Group 7C insecticide. Any insect population may contain individuals naturally resistant to Esteem 0.86 EC Insect Growth Regulator 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 Esteem 0.86 EC Insect Growth Regulator 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.

### PRODUCT INFORMATION

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

Esteem 0.86 EC Insect Growth Regulator is intended for use in Integrated Pest Management (IPM) or Insect Resistance Management (IRM) programs. Esteem 0.86 EC Insect Growth Regulator 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.

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

### BERRY Low Growing, Except Strawberry (Subgroup 13-07H)

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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
Bearberry Bilberry Blueberry, Lowbush Cloudberry	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal/A by air or 50 gal/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Cranberry Lingonberry Muntries Partridgeberry Cultivars, varieties, and/or			Fruitworms: 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.
hybrids of these			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.

Esteem 0.86 EC 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 Esteem 0.86 EC Insect Growth Regulator applications per growing season.
- Do not exceed 32 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calendar year.

### **BUSHBERRY (Subgroup 13-07B)**

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Aronia Berry Blueberry, Highbush Blueberry, Lowbush Buffalo Currant Chilean Guava Cranberry, Highbush	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal/A by air or 50 gal/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Currant, Black Currant, Red Elderberry European Barberry Gooseberry Honeysuckle, Edible			Fruitworms: 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.
Hockleberry Jostaberry Juneberry (Saskatoon Berry) Lingonberry Native Currant Salal Sea Buckthorn Cultivars, varieties, and/or hybrids of these			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.

Esteem 0.86 EC 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 Esteem 0.86 EC Insect Growth Regulator applications per growing season.
- Do not exceed 32 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calendar year.

### CANEBERRY (Subgroup 13-07A)

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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
Blackberry, including: Bingleberry Black Satin Berry Boysenberry	Cherry Fruitworm Cranberry Fruitworm Lecanium	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal/A by air or 50 gal/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.
Cherokee Blackberry Chesterberry Cheyenne Blackberry	Scale		Fruitworms: 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.
Coryberry Darrowberry Dewberry Dirksen Thornless Berry Himalayaberry Hullberry			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.
Lavacaberry Lowberry Lucretiaberry Mammoth Blackberry Marionberry Necterberry Olallieberry Oregon Evergreen Berry Phenomenalberry Rangerberry Ravenberry Ravenberry Shawnee Blackberry (continued)	used insecticide tance Managen • Do not apply v • Do not make r ing season. • Do not exceed • Do not apply e	es to comply with lonent (IRM) program within 7 days of har more than 2 Esteem 0 arlier than 14 days a	

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### CANEBERRY (Subgroup 13-07A) (continued)

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS	
Loganberry Raspberry, including: Bababerry Black Raspberry	Cherry Fruitworm Cranberry Fruitworm Lecanium	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal/A by air or 50 gal/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.	
Blackcap Caneberry Framboise Frambueso	Scale	kcap Scale berry boise bueso		Fruitworms: 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.
and/or hybrids of these			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.	
	used insecticide tance Manager  • Do not apply v  • Do not make r ing season.  • Do not exceed  • Do not apply e	es to comply with lo nent (IRM) program within 7 days of har more than 2 Esteen 1 32 fl oz of Esteem 0 arlier than 14 days a		

### CITRUS FRUIT (Crop Group 10-10)

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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
Australian Desert Lime Australian Finger-lime Australian Round Lime Brown River Finger Lime	Black Scale Brown Soft Scale	16 fl oz	Apply with ground equipment in 200 to 1500 gal/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.
Calamondin Citron Citrus hybrids Grapefruit Japanese Summer Grapefruit	California Red Scale Florida Red Scale Snow Scale		Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2nd or 3rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.
Kumquat Lime Mediterranean Mandarin Mount White Lime New Guinea Wild Lime Orange, Sour Orange, Sweet Pummelo	Scale		Esteem 0.86 EC Insect Growth Regulator 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 during emergence of scale crawlers, do not apply more than 16 fl oz of <i>Esteem</i> 0.86 EC Insect Growth Regulator per acre per year.
Russell River Lime Satsuma Mandarin Sweet Lime Tachibana Orange	Citrus Black Fly Citrus Leafminer	10 fl oz	Apply with ground application in 200 to 1500 gal/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.
Tahiti Lime Tangelo Tangerine (Mandarin) Tangor	ingelo Whitefly		Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.
Trifoliate Orange Uniq Fruit Cultivars, varieties, and/or hybrids of these			NOTE: Do not make more than 2 applications of Esteem 0.86 EC Insect Growth Regulator per acre per year.

Esteem 0.86 EC 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 1 day of harvest.
- Do not exceed 26 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 21 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
   Regardless of formulation do not apply more than 0.175 lb pyriproxyfen per acre per calendar year.

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. LLC is restricting Esteem 0.86 EC Insect Growth Regulator to no more than two applications per growing season. Esteem 0.86 EC 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 federal IPM and IRM recommendations. Read and follow all product labels before applying any insecticide.

### OLIVE

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

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Black Scale San Jose Scale	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gal/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 <i>Esteem</i> 0.86 EC Insect Growth Regulator.

Esteem 0.86 EC 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 Esteem 0.86 EC Insect Growth Regulator applications per growing season.
- Do not exceed 32 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calendar year.

### POME FRUIT (Crop Group 11-10)

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC Insect Growth Regulator 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
Azarole Crabapple Crabapple Obliqueb	Codling Moth Suppression of: Obliquebanded Leafroller	13 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gal/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.
Mayhaw Medlar Quince Quince, Chinese Quince, Japanese Tejocote Cultivars, varieties, and/or hybrids of these	Pandemis Leafroller		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 Esteem 0.86 EC Insect Growth Regulator. Follow local recommendations regarding in-season use and rates of oil in your area.  Obliquebanded and Pandemis Leafroller: Apply to the overwintering larvae at the pink to petal fall tree growth stage. Esteem 0.86 EC Insect Growth Regulator does not directly control the larvae but inhibits normal pupation
	Florida Red Scale Lecanium Scale San Jose Scale	13 to 16 fl oz	and adult emergence.  Apply by ground with airblast equipment in a minimum of 50 gal/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thor-
	oun oose ocure		ough 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 Esteem 0.86 EC Insect Growth Regulator.
			Scale: 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.

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POME FRUIT (Crop Group 11-10) (continued)

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Apple Azarole Crabapple Loquat Mayhaw Medlar Quince Quince, Chinese Quince, Japanese Tejocote Cultivars, varieties, and/or hybrids of these	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Western Tentiform Leafminer	10 to 16 fl oz	Apply by ground with airblast equipment in a minimum of 50 gal/A. Thorough coverage is critical for control. It is essential to use adequate water volume to ensure thorough coverage.  Leafminers: Apply at peak moth flight for control of 1st or 2nd generation. This usually occurs at pre-pink to pink apple stage for 1st generation and 2nd cover for 2nd generation.  Rosy Apple Aphid: Apply at 1/2" green apple growth stage.  Green Apple & Spirea Aphid: Apply when aphids first appear, but before aphids are colonized.  TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL.
Pear Pear, Asian	Pear Psylla	13 to 16 fl oz	Apply by ground with airblast equipment in 75 to 400 gal/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 SKIP ROWS DURING APPLICATION.  For in-season control of pear psylla, use an insecticide recommended for this use.

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POME FRUIT (Crop Group 11-10) (continued)

CROPS	PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Pear Pear, Asian	Lecanium Scale San Jose Scale	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gal/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.
	Codling Moth	13 to 16 fl oz	Apply by ground with airblast equipment in 100 to 400 gal/A.
	Suppression of: Obliquebanded Leafroller Pandemis Leafroller		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 Esteem 0.86 EC Insect Growth Regulator. Follow local recommendations regarding in-season use and rates of oil in your area.
			For additional generations apply other insecticides registered for Codling Moth Control.
	Esteem 0.86 EC Insect Growth Regulator may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance M agement (IRM) programs.  • Do not apply within 45 days of harvest.		

- Do not make more than 2 Esteem 0.86 EC Insect Growth Regulator applications per growing season. • Do not exceed 32 floz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calendar year.

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

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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
Berry, Schisandra Gooseberry Grape, Amur River Kiwifruit, Fuzzy Kiwifruit, Hardy Maypop Cultivars, varieties and/ or hybrids of these.	Scale	16 fl ozs	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.
	insecticides to comp Management (IRM) p • Do not apply within • Do not make more t • Do not exceed 32 fl • Do not apply earlier	teem 0.86 EC Insect Growth Regulator may be mixed and/or alternated with commonly secticides to comply with local integrated Pest Management (IPM) and Insect Resistar anagement (IRM) programs.  Do not apply within 30 days of harvest.  Do not make more than 2 Esteem 0.86 EC Insect Growth Regulator applications per growing to not exceed 32 fl ozs of Esteem 0.86 EC Insect Growth Regulator per acre per calend. Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator reasegrands of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calear.	

### STONE FRUIT (Crop Group 12)

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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
Apricot Cherry Chickasaw Plum Damson Plum	Cherry San Jose Scale Chickasaw Plum	13 to 16 fl oz	Apply in 100 to 400 gal/A with ground equipment. Coverage is essential for good control. Apply in suf- ficient water volume for tree size. Use of higher water volume will assure better coverage.
Fresh Prune Japanese Plum Nectarine Peach Plum	Oriental Fruit Moth		Scale: Apply at dormant, delayed dormant or as an in-season cover spray: At dormant, delayed dor- mant, use a spray oil at the manufacturer's recom- mended oil rate.
Plumcot Prune			Under heavy scale pressure, use the higher rate of Esteem 0.86 EC Insect Growth Regulator.
			Peach Twig Borer: Esteem 0.86 EC Insect Growth Regulator 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 <i>Est</i> by scale.	eem 0.86 EC Insect G	Growth Regulator may not protect fruit from blemishes
	Esteem 0.86 EC Insect Growth Regulator m insecticides to comply with local Integrate Management (IRM) programs.  • Do not apply within 14 days of harvest.  • Do not make more than 3 Esteem 0.86 EC In the Do not exceed 48 fl oz of Esteem 0.86 EC Do not apply earlier than 14 days after later 180 floor.		ay be mixed and/or alternated with commonly used the Pest Management (IPM) and Insect Resistance sect Growth Regulator applications per growing season. Insect Growth Regulator per acre per calendar year. It Esteem 0.86 EC Insect Growth Regulator treatment. Insect Growth Regulator treatment. Insect than 0.323 lb pyriproxyfen per acre per calendar

### STRAWBERRY

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

Esteem 0.86 EC Insect Growth Regulator exhibits translaminar movement which means that Esteem 0.86 EC 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 of the leaves where whitefly are present.

PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	10 fl oz	Apply with ground equipment as a full coverage spray (100 to 400 gal/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.

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

### TREE NUTS (Crop Group 14)

GENERAL: Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC Insect Growth Regulator 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	
Almond	Black Scale San Jose Scale Suppression of: Peach Twig Borer	13 to 16 fl oz	Apply with ground equipment in 100 to 400 gal/A. Coverage is essential for good control. Apply in sufficient water volume for tree size. Use of higher water volume will assure better 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.	
			Esteem 0.86 EC Insect Growth Regulator has provided good suppression of Peach Twig Borer when applied delayed dormant through bloom sprays.	
	Almond:  • Do not apply within 21 days of harvest.  • Do not make more than 1 Esteem 0.86 EC Insect Growth Regulator application per growing season.  • Do not exceed 16 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.			

- Do not exceed 16 fl oz of Esteem 0.86 EU insect Growth Regulator per acre per calendar year.
   Regardless of formulation do not apply more than 0.108 lb pyriproxyfen per acre per calendar year.

(continued)

### TREE NUTS (Crop Group 14) (continued)

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS		
Codling Moth Dusky Veined Aphid Walnut Aphid	16 fl oz	Apply with ground equipment in 100 to 400 gal/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.		
		<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 <i>Esteem</i> 0.86 EC Insect Growth Regulator. 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		Apply with ground equipment in 100 to 400 gal/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.		
Walnut Scale Suppression of: Peach Twig Borer		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.		
Esteem 0.86 EC 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 21 days of harvest.  Do not make more than 2 Esteem 0.86 EC Insect Growth Regulator applications per growing season.  Do not exceed 32 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.  Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.				
	Codling Moth Dusky Veined Aphid Walnut Aphid Walnut Aphid Walnut Aphid Walnut Aphid Scale Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale Suppression of: Peach Twig Borer  Esteem 0.86 EC Inticides to comply (IRM) programs.  * Do not apply wi * Do not make mi * Do not apply each Total Ponter	Codling Moth Dusky Veined Aphid Walnut Aphid  Black Scale Brown Soft Scale Italian Scale Lecanium Scale San Jose Scale Walnut Scale Suppression of: Peach Twig Borer  Esteem 0.86 EC Insect Growth Regulaticides to comply with local Integrate (IRM) programs.  Do not apply within 21 days of harv. Do not make more than 2 Esteem 0. Do not apply earlier than 14 days af Pont apply earlier than 14 days af P		

### TROPICAL & SUBTROPICAL FRUIT

**GENERAL:** Esteem 0.86 EC Insect Growth Regulator acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. Esteem 0.86 EC Insect Growth Regulator has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since Esteem 0.86 EC 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		
Acerola Atemoya Avocado Biriba	Scale	16 fl oz	Apply with ground or air equipment as a full coverage spray (minimum of 5 gal/A by air or 50 gal/A by ground). Thorough coverage is critical for adequate control. It is essential to use adequate water volume to ensure thorough coverage.		
Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama			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.		
Jaboticaba Longan Lychee Mamey Sapote Mango Passionfruit Papaya Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple Starfruit Sugar Apple Wax Jambu	Esteem 0.86 EC 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 14 days of harvest.  • Do not make more than 2 Esteem 0.86 EC Insect Growth Regulator applications per growing season.  • Do not exceed 32 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.  • Do not apply earlier than 14 days after last Esteem 0.86 EC Insect Growth Regulator treatment Regardless of formulation do not apply more than 0.215 lb pyriproxyfen per acre per calendar year.				

### WHITE SAPOTE

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

PESTS	PRODUCT RATES PER ACRE	SPECIAL INSTRUCTIONS
Black Scale Brown Soft Scale California Red 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.
Florida Red Scale Snow Scale		Apply anytime prior to fruit becoming infested when scale is in the crawler stage. Application at the 2nd or 3rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control.
		Esteem 0.86 EC Insect Growth Regulator 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 during emergence of scale crawlers, do not apply more than 16 fl oz of <i>Esteem</i> 0.86 EC Insect Growth Regulator per acre per year.
Citrus Black Fly Citrus Leafminer Citrus Whitefly	10 fl oz	Apply with ground application in 200 to 1500 gal/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.
		NOTE: Do not make more than 2 applications of <i>Esteem</i> 0.86 EC Insect Growth Regulator per acre per year.

Esteem 0.86 EC 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 1 day of harvest.
- Do not exceed 26 fl oz of Esteem 0.86 EC Insect Growth Regulator per acre per calendar year.
- Do not apply earlier than 21 days after last Esteem 0.86 EC Insect Growth Regulator treatment.
- Regardless of formulation do not apply more than 0.175 lb pyriproxyfen per acre per calendar year.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE

Keep this product in its tightly closed original container. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

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

Nonrefillable container. Do not reuse or refill this container. Clean container 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 reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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