



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

93930-9

Date of Issuance:

3/1/19

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Avalaire Pyriprox 0.86 EC

Name and Address of Registrant (include ZIP Code):

Dave G. Bolin, Ph.D, Vice President - Regulatory Affairs
Avalaire LLC
1204 Village Market Place, #173
Morrisville, NC 27560

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Richard Gebken, Product Manager 10
IVB2, Registration Division (7505P)
Registration Division (7505P)

Date:

3/1/19

2. You are required to comply with the data requirements described in the DCI identified below:
 - a. Pyriproxyfen DCI GDCI-129032-1299

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI or EDSP Order listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division:

<http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 93930-10.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.


If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated October 8, 2018

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Decision No. 545208

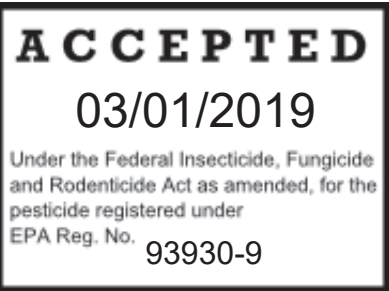
If you have any questions, please contact Virna Stillwaugh by phone at 703-347-8506, or via email at stillwaugh.virna@epa.gov.

Sincerely,

A handwritten signature in cursive script, appearing to read "R. Gebken".

Richard Gebken
Product Manager 10
Invertebrate & Vertebrate Branch 2
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



[Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

{BOOKLET FRONT PANEL LANGUAGE}

PYRIPROXYFEN	GROUP	7C	INSECTICIDE
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Avalaire PyriproxTM 0.86 EC

Contains pyriproxyfen, the active ingredients used in [Knack[®]].

[Insect Growth Regulator]

ACTIVE INGREDIENT:	(% by weight)
Pyriproxyfen*:	11.23%
OTHER INGREDIENTS:	88.77%
TOTAL:	100.00%

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

Contains 0.86 pound ai per gallon.

Contains aromatic petroleum distillates.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

[Avalaire PyriproxTM 0.86 EC] is not manufactured, or distributed by Valent U.S.A. Corporation, seller of [Knack[®]].

EPA Reg. No.: 93930-XX

EPA Est. No.:

Net Contents:

Manufactured for:
Avalaire, LLC
1204 Village Market Place, #173
Morrisville, NC 27560

{LANGUAGE INSIDE BOOKLET}

FIRST AID	
If on skin:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Hold eye 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 eye.• Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none">• Immediately call a poison control center 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.
If inhaled:	<ul style="list-style-type: none">• Move person to fresh air.• 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 SafetyCall at 1-844-685-9173 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
If ingested, 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.	

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes skin and eye irritation. Do not get on skin, in eyes or on clothing. Harmful if inhaled, swallowed or absorbed through skin. Avoid contact with skin, eyes 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.

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 \geq 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.

[Note to EPA reviewer: If this product is shipped in containers greater than 50 lbs, the following environmental hazard statement will be added to the label:]

[Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.]

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 (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 Worker Protection Standard (WPS).

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 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.

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, **Avalaire Pyriprox 0.86 EC** contains a Group 7C insecticide. Any insect population may contain individuals naturally resistant to **Avalaire Pyriprox 0.86 EC** and other Group 7C insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed. To reduce the potential for developing insect resistance, rotate to an insecticide with a different mode of action. Monitor treated pest populations for resistance development. Read product label before applying any insecticide and follow label directions.

To delay insecticide resistance, take the following steps:

- Rotate the use of **Avalaire Pyriprox 0.86 EC** or other Group 7C insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of **Avalaire Pyriprox 0.86 EC** per season.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.

PRODUCT INFORMATION

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

Avalaire Pyriprox 0.86 EC is intended for use in Integrated Pest Management (IPM) or Insect Resistance Management (IRM) programs. Avalaire Pyriprox 0.86 EC 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.

Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

ARTICHOKE (GLOBE)

GENERAL: Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

Avalaire Pyriprox 0.86 EC does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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
Artichoke Plum Moth Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	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.
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire**

Pyriprox 0.86 EC may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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.

ASPARAGUS[*]

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

Avalaire Pyriprox 0.86 EC does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 ozs	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 style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb 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. <p>[*Not For Use in California]</p>		

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

Avalaire Pyriprox 0.86 EC does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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
Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	13 to 16 fl ozs	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 style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 3 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 48 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Regardless of formulation, do not apply more than 0.323 lb pyriproxifen per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 30 days after the last application. 		

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than three applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 13 fl ozs 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.

BERRY*

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

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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. *Not for use in California.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Bearberry Bilberry Blueberry, Lowbush Cloudberry Cranberry Lingonberry Muntries Partridgeberry Cultivars, varieties, and/or hybrids of these	Cherry Fruitworm Cranberry Fruitworm Lecanium Scale	16 fl ozs	<p>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.</p> <p>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.</p> <p>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.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

BRASSICA LEAFY VEGETABLES

(Crop Group 5)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

Avalaire Pyriprox 0.86 EC does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Broccoli Broccoli Raab (rapini) Brussels Sprouts Cabbage Cauliflower Cavalo Broccoli (gai lon) Chinese Cabbage (bok choy and napa) Chinese Mustard (gai choy) Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens Turnip Greens	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	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 or equivalent levels of immatures). Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
	<ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs/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 3-07)

GENERAL: Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Garlic Garlic, Great Headed Leek Onion, Dry Bulb Onion, Green Onion, Welsh Shallot	Onion Thrip Western Flower Thrip	8 fl ozs	<p>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.</p> <p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 3 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 16 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.108 lb 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.

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

BUSHBERRY*

(Subgroup 13-07B)

GENERAL: Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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. *Not for use in California.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Aronia Berry Blueberry, Highbush Blueberry, Lowbush Buffalo Currant Chilean Guava Cranberry, Highbush Currant, Black Currant, Red Elderberry European Barberry Gooseberry Honeysuckle, Edible Huckleberry Jostaberry Juneberry (Saskatoon Berry) Lingonberry Native Currant Salal Sea Buckthorn Cultivars, varieties, and/or hybrids of these	Cherry Fruitworm Cranberry Fruitworm Lecanium 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. 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. 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.
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

CANEBERRY*
(Subgroup 13-07A)

GENERAL: Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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. *Not for use in California.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Blackberry including: Bingleberry Black Satin Berry Boysenberry Cherokee Blackberry Chesterberry Cheyenne Blackberry Coryberry Darrowberry Dewberry Dirksen Thornless Berry Himalayaberry Hullberry Lavacaberry Lowberry Lucretiaberry Mammoth Blackberry Marionberry Necterberry Olallieberry Oregon Evergreen berry Phenomenalberry Rangerberry Ravenberry Rosberry Shawnee Blackberry	Cherry Fruitworm Cranberry Fruitworm Lecanium 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. 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. 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.
Loganberry Raspberry, including: Bababerry Black raspberry Blackcap Caneberry Framboise Frambueso Himbeere Keriberry Mayberry Red raspberry Thimbleberry Tulameen Yellow raspberry Wild raspberry Youngberry Cultivars, varieties, and/or hybrids of these	Avalaire Pyriprox 0.86 EC 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 style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

CITRUS FRUIT
(Crop Group 10-10)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Australian Desert Lime Australian Finger-lime Australian Round Lime Brown River Finger Lime Calamondin Citron Citrus hybrids Grapefruit Japanese Summer Grapefruit Kumquat Lemon Lime Mediterranean Mandarin Mount White Lime New Guinea Wild Lime Orange, Sour Orange, Sweet Pummelo Russell River Lime Satsuma Mandarin Sweet Lime Tachibana Orange Tahiti Lime Tangelo Tangerine (mandarin) Tangor Trifoliolate Orange Uniq Fruit Cultivars, varieties, and/or hybrids of these	Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl ozs	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 any time prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 nd or 3 rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control. Avalaire Pyriprox 0.86 EC may be applied with superior spray oils at ½ 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 ozs of Avalaire Pyriprox 0.86 EC per acre per year.
Tangerine (mandarin) Tangor Trifoliolate Orange Uniq Fruit Cultivars, varieties, and/or hybrids of these	Citrus Black Fly Citrus Leafminer Citrus Whitefly	10 fl ozs	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.

			<p>Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.</p> <p>NOTE: Do not make more than 2 applications of Avalaire Pyriprox 0.86 EC per acre per year.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 1 day of harvest. • Do not exceed 26 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 21 days after last Avalaire Pyriprox 0.86 EC 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

COTTON

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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	8 to 10 fl ozs Do not apply less than 8 fl ozs/A.	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. 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.
<ul style="list-style-type: none"> • Do not apply within 28 days of harvest. • Do not make more than 1 Avalaire Pyriprox 0.86 EC application per growing season. • Do not exceed 10 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Regardless of formulation, do not apply more than 0.067 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 30 days after 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than one application per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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.

CUCURBITS
(Crop Group 9)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
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 ozs Do not apply less than 8 fl ozs/A.	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 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.
<ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb 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. 			

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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.

FRUITING VEGETABLES

(Crop Group 8-10)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
African Eggplant Bush Tomato Bell Pepper Cocona Currant Tomato Eggplant Garden Huckleberry Goji Berry Ground Cherry Martynia Naranjilla Okra Pea Eggplant Pepino Pepper, Bell Pepper, Nonbell Roselle Scarlet Eggplant Sunberry Tomatillo Tomato Tree Tomato Cultivars, varieties, and/or hybrids of these	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs Do not apply less than 8 fl ozs/A of Avalaire Pyriprox 0.86 EC when used as a stand-alone application.	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 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 Cabbage Looper Green Peach Aphid Greenhouse Whitefly (immatures & adults) Silverleaf Whitefly Sweetpotato Whitefly Tobacco Hornworm	6 to 8 fl ozs	Apply as a tank mix with ground equipment for uniform coverage (25 to 150 gals/A by ground). Make application when eggs or insects first appear. If control is needed during this period use an alternate insecticide registered for the target pest. Comply with all applicable directions, restrictions and precautions on the registered tank mix partner label.
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 1 day of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 16 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.108 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 30 days after the last application. 			

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Tomato	Banded Wing Whitefly Beet Armyworm Greenhouse Whitefly (immatures & adults) Potato Aphid Silverleaf Whitefly Sweetpotato Whitefly Thrips Tomato Pinworm Yellowstriped Armyworm	6 to 8 fl ozs + Danitol® 2.4 EC Spray 10-2/3 fl ozs	<p>EARLY SEASON WHITEFLY CONTROL PROGRAM FOR REDUCTION OF GEMINIVIRUS:</p> <p>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. NOTE: This may result in treatment immediately following transplanting.</p> <p>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.</p> <p>Avalaire Pyriprox 0.86 EC may also be mixed or alternated with commonly used insecticides to comply with local IPM programs.</p> <p>Comply with all applicable directions, restrictions and precautions on the registered label for <i>Danitol</i> 2.4 EC spray.</p> <p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 16 fl ozs Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.108 lb pyriproxyfen per acre per calendar year. • Do not plan any crop other than those with registered pyriproxyfen uses in treated areas sooner than 30 days after the last application.

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

GRAPE

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Glassy-Winged Sharpshooter Grape Berry Moth Lecanium Scale	16 fl ozs	<p>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.</p> <p>Lecanium Scale: 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.</p> <p>Follow local recommendations regarding in-season use and rates of oil in your area.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 21 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

HERB

(Subgroup 19A)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Angelica Balm Basil Borage Burnet Chamomile Catnip Chervil (dried) Chive Chive, Chinese Clary Coriander (leaf) Costmary Cilantro (leaf) Curry (leaf)	Whiteflies, including: Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	Apply with ground equipment in adequate water for uniform coverage. A minimum of 20 gallons per acre for ground applications. HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin application when whiteflies reach threshold levels. Under severe pressure, use the higher recommended rates. Treat only whole fields.
Dillweed Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marigold Marjoram Nasturtium Parsley (dried) Pennyroyal Rosemary Rue Sage Savory, Summer and Winter Sweet Bay Tansy Tarragon Thyme Wintergreen Woodruff Wormwood	<ul style="list-style-type: none"> • Do not apply within 1 (one) day of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of A118.81 per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not exceed 0.134 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered Avalaire Pyriprox 0.86 EC uses in treated areas sooner than 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs/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.

LEAFY VEGETABLES

Except Brassica Vegetables (Crop Group 4)

GENERAL: Avalaire Pyriprox 0.86 EC acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
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	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. Begin application when whiteflies reach threshold levels per University/Extension recommendations. Under severe pressure, use the higher recommended rates. Only whole fields should be treated.
	<ul style="list-style-type: none"> Do not apply within 14 days of harvest. Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. Regardless of formulation, do not apply more than 0.134 lb pyriproxifen per acre per calendar year. Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 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, Avalaire, LLC is

restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs/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

Human Food or Animal Feed (Crop Group 2)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
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	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	Apply with ground equipment in adequate water for uniform coverage (10 to 50 gals/A). HIGHER WATER VOLUMES MAY PROVIDE IMPROVED INSECT CONTROL. 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.
			<ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 16 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment.

	<ul style="list-style-type: none"> • Regardless of formulation, do not apply more than 0.107 lb 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. • Do not allow livestock to graze on treated areas.
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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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs/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)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Beans (<i>Lupinus</i>): Grain Lupin Sweet Lupin White Lupin White Sweet Lupin Beans (<i>Phaseolus</i>): Field Bean Kidney Bean Lima Bean Navy Bean Pinto Bean Runner Bean Snap Bean Tepary Bean 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 Lablab Bean Lentil Pea (<i>Pisum</i>): Dwarf Pea Edible-podded Pea English Pea Field Pea Garden Pea Green Pea Snowpea Sugar Snap Pea Pigeon Pea Soybean ^[1] Sword Bean	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 to 10 fl ozs	EARLY SEASON WHITEFLY PROGRAM: Apply with ground equipment in adequate water for uniform coverage (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 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.
	<p>[¹California only] [¹New York only] [Not for use on soybeans]</p> <ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 30 days after the last application. • Do not allow livestock to graze on treated areas. • Do not use on legume vegetables varieties 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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.

OLIVE

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Black Scale San Jose Scale	13 to 16 fl ozs	<p>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.</p> <p>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.</p> <p>Under heavy scale pressure, use the higher rate of Avalaire Pyriprox 0.86 EC.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Cricket Grasshopper Locust	8 to 10 fl ozs	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 PROVIDE IMPROVED INSECT CONTROL. Begin application when pests reach threshold levels per University/Extension recommendations. Under severe pressure, use the higher recommended rates.
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Regardless of formulation, do not apply more than 0.134 pyriproxifen per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. 		

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

PAWPAW

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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
Scale Whitefly	13 to 16 fl ozs	<p>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.</p> <p>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. Do not use oil in an in-season spray.</p> <p>In a cover spray make applications when scale crawlers first emerge.</p> <p>Under heavy scale pressure, use the higher rate of Avalaire Pyriprox 0.86 EC.</p>
<p>In-season sprays of Avalaire Pyriprox 0.86 EC may not protect fruit from blemishes by scale.</p> <p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 3 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 48 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.323 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than three applications per growing season. **Avalaire Pyriprox 0.86 EC** 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

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl ozs	<p>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.</p> <p>Apply any time 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.</p> <p>Avalaire Pyriprox 0.86 EC may be applied with superior spray oils at ½ to 1%. Follow the manufacturer’s directions and recommendations on timing and rates.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 1 day of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per calendar year. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 21 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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 11-10)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Apple Azarole Crabapple Loquat Mayhaw Medlar Quince Quince, Chinese Quince, Japanese Tejocote Cultivars, varieties, and/or hybrids of these	Codling Moth Suppression of: Obliquebanded Leafroller Pandemis Leafroller	13 to 16 fl ozs	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. 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 Avalaire Pyriprox 0.86 EC . 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. Avalaire Pyriprox 0.86 EC does not directly control the larvae but inhibits normal pupation and adult emergence.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
	Florida Red Scale Lecanium Scale San Jose Scale	13 to 16 fl ozs	<p>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.</p> <p>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 Avalaire Pyriprox 0.86 EC.</p> <p>Scale: For control in-season, make application in cover sprays when scale crawlers first emerge. The use of an 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.</p>
	Green Apple Aphid Rosy Apple Aphid Spirea Aphid Spotted Tentiform Leafminer Western Tentiform Leafminer	10 to 16 fl ozs	<p>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.</p> <p>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 2^{ns} cover for 2nd generation.</p> <p>Rosy Apple Aphid: Apply at ½" green apple growth stage.</p> <p>Green Apple & Spirea Aphid: Apply when aphids first appear, but before aphids are colonized.</p> <p>TIMING IS CRITICAL FOR ACCEPTABLE APHID CONTROL.</p>
Pear Pear, Asian	Pear Psylla	13 to 16 fl ozs	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.

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
			<p>Apply a single application during the delayed dormant to pink stage of growth at 16 fl ozs/A or make two applications from delayed dormant through petal fall stage of growth at 13 to 16 fl ozs/A. Make application just before sustained egg lay is anticipated.</p> <p>DO NOT SKIP ROWS DURING APPLICATION.</p> <p>For in-season control of pear psylla, use an insecticide recommended for this use.</p>
<p>Pear Pear, Asian (Cont'd)</p>	<p>Lecanium Scale San Jose Scale</p>	<p>13 to 16 fl ozs</p>	<p>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.</p> <p>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.</p> <p>For control of scale in-season make application in cover sprays when scale crawlers first emerge. The use of an 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.</p>

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Pear Pear, Asian (Cont'd)	Codling Moth Suppression of: Obliquebanded Leafroller Pandemis Leafroller	13 to 16 fl ozs	Apply by ground with airblast equipment in 100 to 400 gals/A. 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 Avalaire Pyriprox 0.86 EC . 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.
	<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 45 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

POMEGRANATE

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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	13 to 16 fl ozs	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 style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 3 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 48 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.323 lb 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. 		

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than three applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 13 fl ozs 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Arracacha Arrowroot Artichoke, Chinese Artichoke, Jerusalem Beet, Garden Beet, Sugar Burdock, Edible Canna, Edible Carrot Cassava, (bitter and sweet) Celeriac Chayote (root) Chervil, Turnip-rooted Chicory Chufa Dasheen (taro) Ginger Ginseng Horseradish	Banded Wing Whitefly Greenhouse Whitefly Silverleaf Whitefly Sweetpotato Whitefly	8 fl ozs	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.
Leren Parsley, Turnip-rooted Parsnip Potato Radish Radish, Oriental (dai kon) Rutabaga Salsify Salsify, Black Salsify, Spanish Skirret Sweet Potato Tanier Turmeric Turnip Yam, Bean Yam, True			<ul style="list-style-type: none"> • Do not apply within 7 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 16 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.108 lb pyriproxifen per acre per calendar year. • Do not plant any crop other than those with registered pyriproxifen uses in treated areas sooner than 30 days after the last application. • Do not allow livestock to graze on treated areas.

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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)

(Subgroup 13-07E)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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	<p>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.</p> <p>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.</p>
	<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 30 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Apricot Cherry Chickasaw Plum Damson Plum Fresh Prune Japanese Plum Nectarine Peach Plum Plumcot Prune	Lecanium Scale San Jose Scale Suppression of: Peach Twig Borer Oriental Fruit Moth	13 to 16 fl ozs	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. Scale: 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. Under heavy scale pressure, use the higher rate of Avalaire Pyriprox 0.86 EC . Peach Twig Borer: Avalaire Pyriprox 0.86 EC 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.
<p>In-season sprays of Avalaire Pyriprox 0.86 EC may not protect fruit from blemishes by scale.</p> <p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management IPM and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 3 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 48 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.323 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than three applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

STRAWBERRY

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

A118.0 does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 ozs	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 style="list-style-type: none"> • Do not apply within 2 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 20 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 30 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.134 lb 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. 		

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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)

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Almond	Black Scale San Jose Scale Suppression of: Peach Twig Borer	13 to 16 fl ozs	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. 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. Avalaire Pyriprox 0.86 EC has provided good suppression of Peach Twig Borer when applied dormant through bloom sprays.
	Almond: <ul style="list-style-type: none"> • Do not apply within 21 days of harvest. • Do not make more than 1 Avalaire Pyriprox 0.86 EC application per growing season. • Do not exceed 16 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Regardless of formulation, do not apply more than 0.108 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to one application per growing season. **Avalaire Pyriprox 0.86 EC** 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) - continues

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
Beechnut Brazil Butternut Cashew Chestnut Chinquapin Filbert (Hazelnut) Hickory Macadamia Pecan Pistachio Walnut	Codling Moth Dusky Veined Aphid Walnut Aphid	16 fl ozs	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. 1 st 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 Avalaire Pyriprox 0.86 EC . 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 ozs	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.
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> Do not apply within 21 days of harvest. 			

CROPS	PESTS	PRODUCT RATE PER ACRE	SPECIAL INSTRUCTIONS
			<ul style="list-style-type: none"> Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. Regardless of formulation, do not apply more than 0.215 lb pyriproxifen 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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
Acerola Atemoya Avocado Biriba Black Sapote Canistel Cherimoya Custard Apple Feijoa Guava Ilama Jaboticaba Longan Lychee	Scale	16 fl ozs	<p>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.</p> <p>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.</p>

Mamey Sapote Mango Passionfruit Papaya Pulasan Rambutan Sapodilla Soursop Spanish Lime Star Apple Starfruit Sugar Apple Wax Jambu	<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 14 days of harvest. • Do not make more than 2 Avalaire Pyriprox 0.86 EC applications per growing season. • Do not exceed 32 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 14 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.215 lb pyriproxifen per acre per calendar year.
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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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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.

Avalaire Pyriprox 0.86 EC does exhibit translaminar movement which means that **Avalaire Pyriprox 0.86 EC** 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 ozs	<p>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.</p> <p>Begin applications when whiteflies reach threshold levels per University/Extension recommendations.</p> <p>Under severe pressure, use the higher recommended rates.</p> <p>Only whole fields should be treated.</p>

Avalaire Pyriprox 0.86 EC 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 **Avalaire Pyriprox 0.86 EC** applications per growing season.
- Do not exceed 20 fl ozs **Avalaire Pyriprox 0.86 EC** per acre per calendar year.
- Do not apply earlier than 14 days after last **Avalaire Pyriprox 0.86 EC** 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.

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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** may be used in alternation with other IGR materials possessing dissimilar modes of action and/or with other chemical classes of insecticides. Avalaire, LLC also does not recommend using rates below 8 fl ozs 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.

WHITE SAPOTE

GENERAL: **Avalaire Pyriprox 0.86 EC** acts by suppressing embryogenesis within the insect egg and by inhibiting metamorphosis and adult emergence of target insects. **Avalaire Pyriprox 0.86 EC** has no activity on adult insects, but hatching of eggs laid by treated adults will be suppressed. Since **Avalaire Pyriprox 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 RATE PER ACRE	SPECIAL INSTRUCTIONS
Black Scale Brown Soft Scale California Red Scale Florida Red Scale Snow Scale	16 fl ozs	Apply with ground equipment in 200 to 1500 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 any time prior to fruit becoming infested when scale is in the crawler stage. Application at the 2 nd or 3 rd generation of scale may result in excessive dead scale remaining on the fruit at harvest. Thorough coverage is essential for good control. Avalaire Pyriprox 0.86 EC may be applied with superior spray oils at ½ 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 ozs of Avalaire Pyriprox 0.86 EC per acre per year.

Citrus Black Fly Citrus Leafminer Citrus Whitefly	10 fl ozs	<p>Apply with ground application 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.</p> <p>Apply when pests are just beginning to build and before infestation has occurred. Thorough coverage is essential for good control.</p> <p>NOTE: Do not make more than 2 applications of Avalaire Pyriprox 0.86 EC per acre per year.</p>
<p>Avalaire Pyriprox 0.86 EC may be mixed and/or alternated with commonly used insecticides to comply with local Integrated Pest Management (IPM) and Insect Resistance Management (IRM) programs.</p> <ul style="list-style-type: none"> • Do not apply within 1 day of harvest. • Do not exceed 26 fl ozs of Avalaire Pyriprox 0.86 EC per acre per calendar year. • Do not apply earlier than 21 days after last Avalaire Pyriprox 0.86 EC treatment. • Regardless of formulation, do not apply more than 0.175 lb of 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, Avalaire, LLC is restricting **Avalaire Pyriprox 0.86 EC** to no more than two applications per growing season. **Avalaire Pyriprox 0.86 EC** 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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

[For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

[For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of AVALAIRE, LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, AVALAIRE, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, neither AVALAIRE, LLC the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

[Avalaire PyriproxTM] is a trademark of Avalaire, LLC

[Knack[®]] is a registered trademark of Valent U.S.A. Corporation.

Danitol is a registered trademark of Sumitomo Chemical Company, Ltd.

Danitol is a restricted use product.

{LANGUAGE ON LABEL AFFIXED TO CONTAINER}

PYRIPROXYFEN	GROUP	7C	INSECTICIDE
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Avalaire PyriproxTM 0.86 EC

Contains pyriproxyfen, the active ingredients used in [Knack[®]].
[Insect Growth Regulator]

ACTIVE INGREDIENT:	(% by weight)
Pyriproxyfen*	11.23%
OTHER INGREDIENTS:	88.77%
TOTAL	100.0%

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

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

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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

FIRST AID	
If on skin:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in eyes:	<ul style="list-style-type: none"> Hold eye 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 eye. Call a poison control center or doctor for treatment advice. treatment advice.
If swallowed:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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 SafetyCall at 1-844-685-9173 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
If ingested, 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.	

For Chemical Emergency:

**Spill, Leak, Fire, Exposure, or Accident, Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

Causes skin and eye irritation. Do not get on skin, in eyes or on clothing. Harmful if inhaled, swallowed or absorbed through skin. Avoid contact with skin, eyes 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.

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.

[Note to EPA reviewer: If this product is shipped in containers greater than 50 lbs, the following environmental hazard statement will be added to the label:]

[Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.]

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.
PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:
[For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]
[For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.]

See inside label booklet for additional Precautionary Statements and Directions for Use.

[Avalaire PyriproxTM 0.86 EC] is not manufactured, or distributed by Valent U.S.A. Corporation, seller of [Knack[®]].

Manufactured for:
Avalaire, LLC
1204 Village Market Place, #173
Morrisville, NC 27560

EPA Reg. No.: 93930-XX
EPA Est. No.: _____
NET WEIGHT: _____