

71711-21

5/12/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 12, 2011

Ms. Anna Armstrong,
Manager, Regulatory Affairs
Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808-2951

**Subject: Label Notification(s); Pesticide Registration Notification (PRN) 98-10
Applaud® 70DF Insect Growth Regulator, EPA Reg. No. 71711-21
Your Submission Dated April 28, 2011**

Dear Mr. Armstrong:

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notification (PRN) 98-10, dated April 28, 2011, for the referenced product. The Registration Division has conducted a review of this request for its applicability under PRN 98-10, and finds that the action(s) requested fall within the scope of PRN 98-10.

Please be reminded that 40 CFR §156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-Notification/PRN 98-10) or durably marked on the container itself.

The label submitted with this application has been time-stamped "Notification," and will be placed within the administrative file for this product. If you have any questions, please contact Mr. Carmen Rodia at (703) 306-0327 or via e-mail at Rodia.Carmen@epa.gov.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Richard J. Gebken".

Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number Nichino America, Inc./71711-21	2. EPA Product Manager Mr. Mark Suarez.	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Applaud 70DF Insect Growth Regulator	PM# 20	
5. Name and Address of Applicant (Include ZIP Code) Nichino America, Inc. 4550 New Linden Hill Rd, Suite 501, Wilmington, DE 19808 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. NOTIFICATION Product Name MAY 12 2011	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Submission of Notification for Applaud 70DF IGR 71711-21 1) Cover letter 2) EPA Form 8570-1 3) Five (5) Copies of the proposed label for Applaud 70DF Insect Growth Regulator EPA Reg Number 71711-21 (D-48 042811)

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Metal Plastic Glass <input checked="" type="checkbox"/> Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container 5	If "Yes" Package wgt No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 5 lb.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Anna Armstrong	Title Manager, Reg. Affairs	Telephone No. (Include Area Code) 302-636-9001
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Manager, Reg. Affairs	
4. Typed Name Anna Armstrong	5. Date	

NICHINO AMERICA

Sent Via Fed EX

April 28, 2011

Mr. Mark Suarez (PM-13)
Office of Pesticide Programs (7504-C)
Registration Division -H7505C
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

NOTIFICATION

MAY 12 2011

**RE: Submission of Notification per PR Notice 98-10 - Alternate Brand Name
Applaud 70DF Insect Growth Regulator Master Label (EPA Reg. No 71711-23)**

Dear Mr. Suarez:

Nichino America, Inc. herein submits the following in support of a label change Notification:

- Completed EPA Form 8570-1
- Notification Certification Statement (included immediately below)
- Five copies of the amended label (D-48-042811) including one highlighted copy

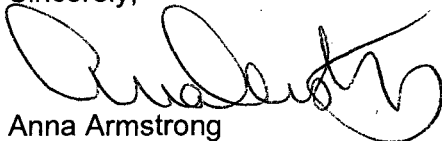
This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec 1001 to willfully make any false statements to the EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA, and I may be subject to enforcements action and penalties under sections 12 and 14 FIFRA.

The following details the changes to the label:

- Addition of alternate brand name: Talus® 70DF Insect Growth Regulator

Thank you in advance for your efforts. If you have any questions, please do not hesitate to contact me at (302) 636-9001, extension 227 or by e-mail me at armstrong@nichino.net.

Sincerely,



Anna Armstrong
Manager, Regulatory Affairs

Enclosures

NICHINO AMERICA, INC.

4550 New Linden Hill Road, Suite 501, Wilmington, DE 19808
888-740-7700 www.nichino.net

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GROUP 16 INSECTICIDE

NICHINO AMERICA

APPLAUD[®] 70DF Insect Growth Regulator

ACTIVE INGREDIENT:

Buprofezin: 2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one.....70.00%

OTHER INGREDIENTS:.....30.00%

TOTAL 100.00%

Contains 0.70 lbs. buprofezin per pound of product

NOTIFICATION

MAY 12 2011

EPA Reg. No. 71711-21
EPA Est. No. 67545-AZ-1

Marketing Brands: Applaud[®] Insect Growth Regulator, Centaur[®] WDG Insect Growth Regulator, and Talus[®] 70DF Insect Growth Regulator

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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.
If on skin or clothing	<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.
If swallowed	<ul style="list-style-type: none"> • Call 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.

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 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300.

NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

Net Contents: _____

Active Ingredient Made in China; Formulated and Packaged in USA

Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808
888-740-7700

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PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Wash thoroughly with soap and water after handling. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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

User Safety Recommendations

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

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chemical-resistant footwear

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NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. For other uses, including golf courses and other nonagricultural uses, do not enter treated areas without protective clothing until sprays have dried.

GENERAL INFORMATION

APPLAUD® 70DF insect growth regulator is effective against the nymphal stages of whitefly, scales, psylla, mealybugs, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. APPLAUD 70DF insect growth regulator is not an adulticide. Evidence of activity may be slower than typical contact insecticides as treated susceptible pests may remain alive on the plant for 3-7 days; however pests have stopped feeding and any feeding damage during this time is typically very low.

APPLAUD 70DF insect growth regulator is not disruptive to beneficial insects and mites.

APPLAUD 70DF insect growth regulator is a contact insecticide, so good spray coverage is necessary. Apply by ground or air in sufficient water volume. Orient nozzles to assure good coverage. Use of higher volume of water will assure better coverage, especially under adverse conditions such as hot, dry weather, and/or a dense canopy. The entire field should be treated. Apply when economic infestations occur based on local information.

APPLAUD 70DF insect growth regulator is not for sale, sale into, distribution, and or use in Nassau and Suffolk counties of New York state.

INSECTS CONTROLLED

Whiteflies: Ash whitefly, Banded wing whitefly, Greenhouse whitefly, Silverleaf whitefly, Sweet potato whitefly

Mealybugs: Citrus mealybug, Comstock mealybug, Gill's mealybug, Grape mealybug, Longtailed mealybug, Mexican mealybug, Obscure mealybug, Striped mealybug, Vine mealybug

Leafhoppers and Planthoppers: Brown planthopper, Cherry leafhopper, Eastern grape leafhopper, Glassy-winged sharpshooter, Potato leafhopper, Variegated leafhopper, Western grape leafhopper, White apple leafhopper

Pear Psylla

Scales:

Soft Scales: Barnacle scale, Black scale, Brown soft scale, Citricola scale, False oleander scale, Hemispherical scale, Indian wax scale and other wax scales, Tessellated scale, White peach scale

Armored Scales: Boisduval scale, Cactus scale, California red scale, Coconut scale, Fern scale, Florida red scale, Oystershell scale, San Jose scale

Margarodid Scale: Cottony cushion scale

RESISTANCE MANAGEMENT

APPLAUD 70DF insect growth regulator is classified by IRAC in Group 16 – chitin biosynthesis inhibitors and is not known to be cross-resistant to other classes of insecticides. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating with insecticides with different modes of action. Consult your local pest control advisor or extension office for details. If resistance to this product develops in your area, it may not provide adequate control. If you experience difficulty with control, and resistance is a likely cause, consult your local state university horticultural specialist or local agricultural authorities for the best alternative method of control. To preserve the usefulness of APPLAUD 70DF insect growth regulator, do not make more than two consecutive applications. Prior to subsequent applications, use an alternative chemistry with a different mode of action. Always consult your local crop advisor for the most appropriate control decision for your area. Resistance management strategies advise against applying rates lower than those recommended on the label.

For greenhouses: If another insect growth regulator with the same mode of action as a chitin biosynthesis inhibitor (i.e. cyromazine, diflubenzuron, and novaluron) has been used in the greenhouse within 28 days, do not apply APPLAUD 70DF insect growth regulator as the first whitefly application.

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MIXING, LOADING, AND HANDLING INSTRUCTIONS

SPECIFIC MIXING INSTRUCTIONS

APPLAUD 70DF INSECT GROWTH REGULATOR ALONE: Fill spray tank with ¾ of the amount of water needed for the intended application and then turn on agitation. Pour recommended amount of product on the surface of water in the spray tank. Add the balance of the water to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

APPLAUD 70DF INSECT GROWTH REGULATOR TANK MIXTURES: Follow all use directions as listed above under **APPLAUD 70DF INSECT GROWTH REGULATOR ALONE** with the following exception: after the APPLAUD 70DF insect growth regulator is thoroughly mixed and the tank is ¾ full, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, **while maintaining agitation**. If a spray additive is needed, add a liquid fertilizer, surfactant, or crop oil concentrate to the spray tank at this time. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

APPLAUD 70DF INSECT GROWTH REGULATOR TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING: Follow all use directions as listed above under **APPLAUD 70DF INSECT GROWTH REGULATOR ALONE** with the following exception: add the desired number of water-soluble bags to the tank (if allowed by their label instructions) at the same time the APPLAUD 70DF insect growth regulator is added. **Note:** If using products in water soluble packaging, do not tank mix with products that contain boron, chromium, or other micronutrients.

APPLICATION DIRECTIONS

Applications should be made immediately after the spray solution is prepared. Thorough spray coverage is essential for effective control. Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. For best results, apply when pest populations are beginning to build, before reaching economic thresholds. Consult your local agricultural advisor, state cooperative extension service, or regional Nichino America representative for recommendations.

USE RESTRICTIONS

- Do not apply this product through any type of irrigation system.
- Crop Rotational Restrictions:

CROP	PLANTBACK TIMING
All crops registered for use with buprofezin	0 days following application
Leafy vegetables not registered for use with buprofezin, Cereal grains	30 days following application
All other crops	60 days following application

USE PRECAUTIONS

- Apply in a minimum finished spray volume of 5 gallons per acre by air. For gallonage per acre by ground, refer to Application Rate Chart.
- Phytotoxicity may occur in Oriental Pear varieties, normally limited to applications made prior to petal fall.

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**APPLICATION RATE CHART FOR
APPLAUD 70DF INSECT GROWTH REGULATOR**

Crop	Pest	Formulated Product Rate/Acre	Directions for Use
Acerola Atemoya Avocado Biriba Cherimoya Custard apple Feijoa Guava Ilama Jaboticaba Passion fruit Soursop Starfruit Sugar apple Wax jambu	Scales Leafhoppers Mealybugs Whiteflies	34.5 oz/acre (2.156 lbs/acre) (1.5 lbs ai/acre) 9.0 to 12.0 oz/acre (0.56 to 0.75 lbs/acre) (0.40 to 0.53 lbs ai/acre)	<ul style="list-style-type: none"> • Limited to Florida, Hawaii, and Puerto Rico • Apply by ground application using a minimum of 80 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Do not apply within 21 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • Scales: Apply at early crawler emergence. • Good spray coverage is essential.
Black sapote Canistel Mamey sapote Mango Papaya Sapodilla Star apple	Leafhoppers Mealybugs Scales Whiteflies	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre) (0.40 to 0.53 lbs ai/acre)	<ul style="list-style-type: none"> • Limited to Florida, Hawaii, and Puerto Rico • Apply by ground application using a minimum of 80 gallons of water per acre. • Do not make more than 5 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 45.0 oz (2.8 lbs) per acre per growing season. • Do not apply within 3 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • Scales: Apply at early crawler emergence. • Good spray coverage is essential.
ALMONDS PISTACHIOS	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 100 gallons of water per acre. • Do not make more than 1 application per growing season. • Do not apply more than 46.0 oz (2.875 lbs) per acre per growing season. • Do not apply within 60 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs.

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			<ul style="list-style-type: none"> • San Jose scale: Application can be made at dormant or delayed dormant when scale is in the black cap stage, or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence or when scales are at a susceptible early nymphal stage. • Good spray coverage is essential.
APPLES CRABAPPLE LOQUAT MAYHAW QUINCE	Leafhoppers	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre) (0.40 to 0.53 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons of water per acre. For low-volume sprayers, use a minimum of 20 gallons of water per acre. • Do not make more than 1 application per growing season. • Do not apply more than 34.5 oz (2.156 lbs) per acre per growing season. • Do not apply within 14 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence. • Mealybugs: Application should be made from dormant, delayed dormant to petal fall when nymphs are present. Apply in-season at early crawler emergence. Good spray coverage is essential.
	Mealybugs Scales	34.5 oz/acre (2.156 lb/acres) (1.5 lbs ai/acre)	
BANANAS	Leafhoppers Mealybugs Scales Whiteflies	7.0 oz/acre (0.438 lbs/acre) (0.31 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 15 gallons of water per acre. • Do not make more than 4 applications per growing season. • Allow at least 14 days between applications. • Do not apply within 1 day of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details. • Good spray coverage is essential. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.
CITRUS CROP GROUP 10: Calamondin Citrus citron Citrus hybrids (includes chironja,	Black scale California red scale Citricola scale Cottony cushion	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 750 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 60 days between applications. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season.

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<p>tangelo, tangor) Clementine Grapefruit Kumquat Lemon Lime Mandarin Orange, sour Orange, sweet Pummelo Satsuma mandarin Tangerine White sapote (<i>Casimiroa</i> spp.)</p>	<p>scale Glassy-winged sharpshooter Mealybugs</p>		<ul style="list-style-type: none"> Do not apply within 3 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Application should be made when early crawler emergence occurs. Good spray coverage is essential.
<p>COFFEE</p>	<p>Mealybugs Scales</p>	<p>23.0 oz/acre (1.43 lbs/acre) (1.0 lbs ai/acre)</p>	<ul style="list-style-type: none"> Apply by ground application using a minimum of 50 gallons of water per acre. Do not make more than 4 applications per growing season. Allow at least 14 days between applications. Do not apply more than 91.0 oz (5.72 lbs) per acre per growing season. Harvest on application date permitted (0 day PHI). <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Treatment should be applied when population level reaches economic threshold. Good spray coverage is essential.
<p>GRAPES</p>	<p>Leafhoppers Mealybugs</p>	<p>9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre) (0.40 to 0.53 lbs ai/acre)</p>	<ul style="list-style-type: none"> Apply by ground application using a minimum of 50 gallons of water per acre depending on the size of the grapevine canopy. Do not make more than 2 applications per growing season. Allow at least 14 days between applications. Do not apply more than 24.0 oz (1.5 lbs) per acre per growing season. Do not apply within 7 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Leafhoppers: Apply when majority of the population is at the early nymphal stage. Mealybugs: Application should be made when early crawler emergence occurs. Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.

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	Mealybugs	24.0 oz/acre (1.50 lb/acre) (1.05 lbs ai/acre)	<p>THIS APPLICATION RATE ALLOWED IN CALIFORNIA AND ARIZONA ONLY</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 50 gallons of water per acre depending on the size of the grapevine canopy. • Do not apply more than 24.0 oz (1.5 lbs) per acre per growing season. • Do not apply within 30 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.
LONGAN LYCHEE PULASAN RAMBUTAN SPANISH LIME	Scales	34.5 oz/acre (2.156 lbs/acre) (1.5 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons per acre spray volume. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Do not apply within 21 days of harvest.
OLIVES	Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 200 gallons of water per acre • Do not make more than 2 applications per growing season. • Allow at least 50 days between applications • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Do not apply within 21 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Application should be made when early crawler emergence occurs. • Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.
PEAR ORIENTAL PEAR	Mealybugs Pear psylla Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons of water per acre. For larger, more mature trees, use a minimum of 200 gallons of water per acre. • Do not make more than 2 applications per growing season.

		(1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Allow at least 7 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Do not apply within 14 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Pear Psylla: For best results of controlling 1st and 2nd instars, apply at dormant, delayed dormant to petal fall, before pear psylla egg hatch. • In-season apply early when smaller pear psylla nymphs are present. For best results, tankmix with an adulticide. • Mealybugs: Application should be made at dormant, delayed dormant to petal fall when nymphs are present. Apply in-season at early crawler emergence. • San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence. • Good spray coverage is essential. • Phytotoxicity may occur in Oriental Pear varieties, normally limited to applications made prior to petal-fall.
<p>STONE FRUIT CROP GROUP 12:</p> <p>Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plum, Chickasaw Plum, Damson Plum, Japanese Plumcot Prune (fresh)</p>	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs.) per acre per growing season. • Do not apply within 14 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • San Jose scale: Application can be made at dormant, delayed dormant, or pre-bloom when scale is in the black cap stage, or in-season at early crawler emergence. • Other scales: Apple at early crawler emergence. • Good spray coverage is essential.
POMEGRANATES	Whiteflies	12.0 to 34.5 oz/acre (0.75 to 2.156 lbs/acre) (0.53 to 1.5 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 50 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications.

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	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. Do not apply within 14 days of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Whiteflies: Apply at early nymph threshold. Mealybugs: Application should be made when early crawler emergence occurs. San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in-season at early crawler emergence. Other scales: Apply at early crawler emergence. Good spray coverage is essential.
GREENHOUSE TOMATOES	Leafhoppers Mealybugs Planthoppers	9.0 oz/acre (0.56 lbs/acre) (0.40 lbs ai/acre)	<ul style="list-style-type: none"> For greenhouse tomatoes, apply by ground on 2 acre minimum with 20 gallons of water per acre. Apply no more than 2 applications per growing cycle. Allow at least 5 days between applications. Do not apply more than 18.0 oz (1.12 lbs) per acre per growing cycle. Do not apply within 1 day of harvest. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Treatment should be applied when population level reaches economic threshold. Consult local and state agricultural authorities for details. Apply in sufficient water to obtain complete coverage of all plant parts. Good coverage is essential. Applications may be made with high volume, low volume or ultra-low volume (thermal and non-thermal foggers, misters, etc.) ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.
	Whiteflies	6.0 to 9.0 oz/acre (0.38 to 0.56 lbs/acre) (0.26 to 0.40 lbs ai/acre)	
ORNAMENTAL PLANTS in greenhouses; lath and shadehouses; nurseries; landscape ornamentals;	Leafhoppers Mealybugs Planthoppers	12.0 oz/acre (0.75 lb/acre) (0.53 lbs ai/acre)	<ul style="list-style-type: none"> Make no more than 2 applications per crop per growing season. Do not apply more than 28.0 oz (1.76 lbs) per acre per growing cycle. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Applications may be made with high volume, low volume or ultra-low volume (thermal and non-

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ground covers; field-and container-grown ornamentals; non-bearing fruit and nut trees and vines in nurseries; Christmas trees	Scales	14.0 oz/acre (0.88 lb/acre) (0.61 lbs ai/acre)	<p>thermal foggers, misters, etc.) ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.</p> <ul style="list-style-type: none"> • Apply the specified dosage as a foliar spray in sufficient water for complete, uniform coverage, including stems and underside of leaves. Spray to the point of runoff. • Whiteflies, Leafhoppers or Planthoppers: Make first application as soon as adult insects begin to appear. • Mealybugs: Make first application as soon as insect activity is observed. • Scales: Make first application when crawlers are emerging. • If additional insecticide applications are required for control, use another class of chemistry or a different Insect Growth Regulator (IGR) with a different mode of action before making subsequent applications of buprofezin. • Consult local or state agricultural authorities for details concerning economic thresholds for each target pest.
	Whiteflies	6.0 oz/acre (0.38 lb/acre) (0.26 lbs ai/acre)	

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container, unopened, in a cool, dry place.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse (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 reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties, and limitations of liability.

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