

71711-21

6/8/2010

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

June 8, 2010

Ms. Marie A. Maks
Nichino America, Inc.
4550 New Linden Hill Road
Suite 501
Wilmington, DE 19808

Subject: Label Notification(s) of Alternate Brand Name per PRN 98-10
Addition of Alternate Brand Name

Dear Ms. Maks:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice PRN 98-10 dated April 7, 2010 for the following product(s):

Applaud 70DF Insect Growth Regulator EPA Reg. No. 71711-21
Alternate Brand Name: Applaud Insect Growth Regulator

The Registration Division (RD) has conducted a review of this request for applicability under PRN 98-10 and finds that the label change(s) requested falls within the scope of PRN-98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 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 nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact Regina Foushee'-Smith at 703-605-0780.


Sincerely,

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

Richard J. Gebken
Product Manager
Insecticide Branch
Registration Division (7505P)

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	United States	Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
	Environmental Protection Agency		
	Washington, DC 20460		

Application for Pesticide - Section I

1. Company/Product Number 71711-21	2. EPA Product Manager Kimberly Nesci	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Applaud 70 DF Insect Growth Regulator	PM# 11	
5. Name and Address of Applicant (Include Zip Code) Nichino America Inc. 4550 New Linden Hill Road 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 JUN 8 - 2010	

Section - II

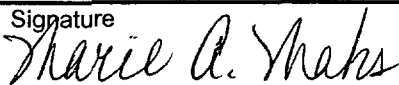
<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels per EPA letter
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.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

Explanation: Notification per PR Notice 98-10: Alternate Brand Name
 Attachments: two copies of label, identified as 040710,
 Certification Statement", letter M.A. Maks to M. Suarez, dated April 7, 2010

Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Unit Packaging wgt. container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" No. per Package wgt. container	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) HDPE lined bags
* Certification must be submitted			
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 checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other ___ adhesive backed label _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Marie A. Maks	Title Senior Manager, Regulatory Affairs	Telephone No. (Include Area Code) (302) 636-9001 Extension 203	
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 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> (Stamped)
2. Signature 	3. Title Senior Manager, Regulatory Affairs		
4. Typed Name Marie A. Maks	5. Date April 7, 2010		

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GROUP 16 INSECTICIDE

Nichino America, Inc.

APPLAUD® 70DF Insect Growth Regulator

ACTIVE INGREDIENT:

Buprofezin: 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one70.00%

OTHER INGREDIENTS:.....30.00%

TOTAL 100.00%

Contains 0.70 lbs. buprofezin per pound of product

EPA Reg. No. 71711-21

EPA Est. No. 67545-AZ-1

Marketing Brands: Centaur® WDG Insect Growth Regulator, Applaud® 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
1-888-740-7700

50614

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.

IMPORTANT – Read the entire Directions for Use and Disclaimer of Warranties before using this product.

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

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 contains the active ingredient, buprofezin. It is effective against the nymph stages of whitefly, scales, psylla, mealybugs, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. Treated susceptible pests may remain alive on the plant for 3-7 days, but feeding damage during this time is typically very low. APPLAUD 70DF insect growth regulator is not disruptive to beneficial insects and mites.

Good coverage is essential. 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: Boisdual 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 synthesis 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

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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 synthesis 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.

MIXING, LOADING, AND HANDLING INSTRUCTIONS

SPECIFIC MIXING INSTRUCTIONS

APPLAUD 70DF INSECT GROWTH REGULATOR ALONE: Fill spray tank with $\frac{3}{4}$ 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 $\frac{3}{4}$ 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	30 days following application
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.

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

Crop	Pest	Formulated Product/A	Directions for Use
Acerola Atemoya Avocado Biriba Cherimoya Custard apple Feijoa Guava Ilama Jaboticaba Passion fruit Soursop Starfruit Sugar apple Wax jambu	Scales	34.5 oz/acre (2.156 lbs/acre)	USE RESTRICTIONS <ul style="list-style-type: none"> • Limited to Florida, Hawaii, and Puerto Rico • Apply by ground application using a minimum of 20 gallons of water per acre. • Do not make more than 2 applications per growing season. <ul style="list-style-type: none"> • 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. RECOMMENDATIONS <ul style="list-style-type: none"> • Treatment should be made when peak crawler emergence occurs. Consult local and State agricultural authorities for details. • Good 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)	USE RESTRICTIONS <ul style="list-style-type: none"> • Limited to Florida, Hawaii, and Puerto Rico • Apply by ground application using a minimum of 20 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. RECOMMENDATIONS <ul style="list-style-type: none"> • Treatment should be made when peak crawler emergence occurs. Consult local and State agricultural authorities for details. • Good coverage is essential.
Almonds Pistachios	Mealybugs, (including Gill's Mealybug) Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	USE RESTRICTIONS <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 within 60 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State

			<p>agricultural authorities for details.</p> <ul style="list-style-type: none"> • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) or in-season at peak crawler stage. • Good coverage is essential.
Apples Crabapple Loquat Mayhaw Quince	Leafhoppers	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre)	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground application using 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 delayed dormant, pink, and petal fall when the scale is at white or black cap stage or at peak crawler emergence in-season. • Other scales: Apply at peak crawler emergence. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Good coverage is essential.
	Mealybugs Scales	34.5 oz/acre (2.156 lb/acres)	
Bananas	Leafhoppers Mealybugs Scales Whiteflies	7.0 oz/acre (0.438 lbs/acre)	<p>USE RESTRICTIONS</p> <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 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: Calamondin Citrus citron Citrus hybrids (includes chironja, tangelo, tangor)	Black scale California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	<p>USE RESTRICTIONS</p> <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 within 3 days of harvest.

Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange, sour Orange, sweet Pummelo Satsuma mandarin White sapote (Casimiroa spp.)	Mealybugs		RECOMMENDATIONS <ul style="list-style-type: none"> • Treatment should be made when peak crawler emergence occurs. Consult local and State agricultural authorities for details. • Good coverage is essential.
Coffee	Mealybugs Scales	23.0 oz/acre (1.43 lbs/acre)	USE RESTRICTIONS <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 year. • Allow at least 14 days between applications. • Do not apply more than 91.0 oz (5.72 lbs) per acre per year. • Harvest on application date permitted (0 day PHI). RECOMMENDATIONS <ul style="list-style-type: none"> • Treatment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details. • Good coverage is essential.
Grapes	Leafhoppers Mealybugs	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre)	USE RESTRICTIONS <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. RECOMMENDATIONS <ul style="list-style-type: none"> • Leafhopper: Apply when majority of the population is at the early nymphal stage. • Mealybug: Apply at the beginning of crawler emergence. • Good 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)	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 75 gallons per acre spray volume. • Allow at least 14 days between applications. • Do not make more than 2 applications per year. • 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)	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 110 gallons of water per acre, depending on the size of the olive trees. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Allow at least 50 days between applications. • Do not apply within 21 days 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. • Good 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)	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 20 gallons of water per acre. • Do not make more than 2 applications per growing season. • 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"> • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • San Jose scale: Application can be made at delayed dormant, pink, and petal fall when the scale is at white or black cap stage and at peak crawler emergence in-season. • Other scales: Apply at peak crawler emergence. • Good coverage is essential. • Phytotoxicity may occur in Oriental Pear varieties, normally limited to applications made prior to petal fall.

Stone Fruit Crop Group: Apricot Cherry, sweet Cherry, tart Nectarine Peach Plum Plum, Chickasaw Plum, Damson Plum, Japanese Plumcot Prune (fresh)	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69.0 oz (4.3 lbs.) per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
	Whiteflies	12.0 to 34.5 oz/acre (0.75 to 2.156 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69 oz per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Whitefly: Apply at early nymph threshold. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
Pomegranates	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69 oz per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Whitefly: Apply at early nymph threshold. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
	Whiteflies	12.0 to 34.5 oz/acre (0.75 to 2.156 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69 oz per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Whitefly: Apply at early nymph threshold. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
Greenhouse Tomatoes	Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69 oz per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Whitefly: Apply at early nymph threshold. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
	Whiteflies	12.0 to 34.5 oz/acre (0.75 to 2.156 lbs/acre)	USE RESTRICTIONS <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. • Do not apply more than 69 oz per acre per growing season. • Do not apply within 14 days of harvest. RECOMMENDATIONS <ul style="list-style-type: none"> • Whitefly: Apply at early nymph threshold. • Mealybugs: Application should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. • Scale: Application can be made at delayed dormant (or when San Jose scale is at the white or black cap stage) and in-season at peak crawler hatch. • Good coverage is essential.
Greenhouse Tomatoes	Leafhoppers Mealybugs Planthoppers	9.0 oz/acre (0.56 lbs/acre)	USE RESTRICTIONS <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 within 1 day of harvest. RECOMMENDATIONS

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	Whiteflies	6.0 to 9.0 oz/acre (0.38 to 0.56 lbs/acre)	<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.
Ornamental plants in greenhouses; lath and shadehouses; nurseries; landscape ornamentals; ground covers; field-and container- grown ornamentals; non-bearing fruit and nut trees and vines in nurseries; Christmas trees	Leafhoppers	12.0 oz/acre	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Make no more than 2 applications of buprofezin per crop per growing season. <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-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. • 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. • Whitefly, Leafhopper or Planthopper: Make first application as soon as adult insects begin to appear. • Mealybug: Make first application as soon as insect activity is observed. • Scale: 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.
	Mealybugs	(0.75 lb/acre)	
	Planthoppers	(0.75 lb/acre)	
	Scales	14.0 oz/acre (0.88 lb/acre)	
	Whiteflies	6.0 oz/acre (0.38 lb/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 may 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 $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available, or reconditioning, 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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