




71711-21

11/29/2004

1/10

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

		United States <b>Environmental Protection Agency</b> Washington, DC 20460		<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other		OPP Identifier Number	
<b>Application for Pesticide - Section I</b>							
1. Company/Product Number 71711-21			2. EPA Product Manager Richard Gebken		3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted		
4. Company/Product (Name) Applaud 70 DF Insect Growth Regulator			PM# 10				
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. _____ Product Name _____				
<b>Section - II</b>							
<input type="checkbox"/> Amendment - Explain below. <input type="checkbox"/> Resubmission in response to Agency letter dated _____ <input checked="" type="checkbox"/> Notification - Explain below.				<input type="checkbox"/> Final printed labels in response to Agency letter dated _____ <input type="checkbox"/> "Me-Too" Application. <input type="checkbox"/> Other - Explain below.			
<b>NOTIFICATION</b> NOV 29 2004							
<b>Explanation:</b> Use additional page(s) if necessary. (For section I and Section II.) To submit revised section 3 federal label with correction to "Directions for Use" to be consistent with Applaud 70 WP label (EPA Reg No. 71711-15) Attachment: 2 copies of label, highlighted label with changes noted; 2 copies of final printed label, Certification Statement; Letter M.A. Maks to R.Gebken, dated Nov. 10, 2004							
<b>Section - III</b>							
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		Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		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) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt. No. per container			
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container			4. Size(s) Retail Container 5 lb.		5. Location of Label Directions <input type="checkbox"/>		
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 _____				
<b>Section - IV</b>							
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 Manager, Regulatory Affairs			Telephone No. (Include Area Code)	
<b>Certification</b> 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 Marie A. Maks			3. Title Manager, Regulatory Affairs				
4. Typed Name Marie A. Maks			5. Date Nov. 10, 2004				

2/10  
NOTIFICATION  
NOV 29 2004

## Certification Statement

### NOTIFICATION OF MINOR REVISION CHANGE PER PR NOTICE 98-10

**Nichino America, Inc. Applaud ® 70 DFInsect Growth Regulator  
(EPA Reg. No. 71711-21)**

"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 statement 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 enforcement action and penalties under sections 12 and 14 of FIFRA."

Marie A. Maks

Marie A. Maks

Manager, Regulatory Affairs

Title

November 10, 2004

Date

NOV 29 2004

3/10

Nichino America, Inc.

**APPLAUD® 70DF**

Insect Growth Regulator

FOR Bananas, Citrus, Grapes, Longan, Lychee,  
Pulasan, Rambutan, and Spanish Lime**ACTIVE INGREDIENT:**Buprofezin: 2-tert-butylimino-3-isopropyl-  
5-phenylperhydro-1,3,5-thiadiazin-4-one ..... 70.00%  
**OTHER INGREDIENTS:** ..... 30.00%  
**TOTAL 100.00%**

Contains 0.70 lbs. buprofezin per pound of product

EPA Reg. No. 71711-21

EPA Est. No. 67546-AZ-1

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**See inside for First Aid, Precautionary Statements,  
and complete Directions for Use.

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

**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.

**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

**GENERAL INFORMATION**

APPLAUD® 70DF Insect growth regulator contains the active ingredient, buprofezin. It is effective against the nymph stages of whitefly, scales, 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 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 is not for sale, sale into, distribution, and or use in Nassau and Suffolk counties of New York state.

**INSECTS CONTROLLED**

**Whiteflies:** Ash whitefly; Greenhouse whitefly; Silverleaf whitefly; Sweet potato whitefly

**Mealybugs:** Citrus mealybug; Comstock mealybug; Grape mealybug; Longtailed mealybug; Mexican mealybug; Obscure mealybug; Vine mealybug

**Leafhoppers and Planthoppers:** Brown planthopper; Cherry leafhopper; Eastern grape leafhopper; Glassy-winged sharpshooter; Potato leafhopper; Variegated leafhopper; Western grape leafhopper

**Scales:**

**Soft Scales:** Barnacle scale; Black scale; Brown soft scale; Citricola scale; False oleander scale; Hemispherical scale; Indian wax scale and other wax scales; Tesselated scale; White peach scale

**Armored Scales:** Boleid scale; Cactus scale; California red scale; Coconut scale; Fern scale; Florida red scale; Oystershell scale; San Jose scale

**Margarodid Scale:** Cottony cushion scale

**MIXING, LOADING, AND HANDLING INSTRUCTIONS  
SPECIFIC MIXING INSTRUCTIONS**

**APPLAUD 70DF ALONE:** Fill spray tank with 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 TANK MIXTURES:** Follow all use directions as listed above under APPLAUD 70DF ALONE with the following exception: after the APPLAUD 70DF is thoroughly mixed and the tank is 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 con-

tinue adding water to the tank to achieve the desired level, while maintaining agitation.

**APPLAUD 70DF TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING:** Follow all use directions as listed above under APPLAUD 70DF 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 is added. Note: If using products in water soluble packaging, do not tank mix with products that contain boron, chromium, or other micronutrients.

#### RESISTANCE MANAGEMENT

APPLAUD 70DF belongs to a class of chemicals not previously used as pesticides and 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, do not make more than two consecutive applications. Prior to subsequent applications, use an alternative chemistry with a different mode of action. If a different crop in an adjacent field has been treated with buprofezin against silverleaf whitefly within the past 28 days, do not apply APPLAUD 70DF as the first silverleaf whitefly application. 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.

#### USE PRECAUTIONS

- Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground unless otherwise specified in Directions for Use.
- Crop Rotational Restrictions: All crops listed on this label may be planted at any time. Small grain crops and leafy vegetables may be planted 30 days following application. All other crops may be planted 60 days following application.
- Do not apply this product through any type of irrigation system.

APPLICATION RATE CHART FOR APPLAUD 70DF INSECT GROWTH REGULATOR

Crop	Pest	Dosage Rate Formulated Product/A	Application Directions And Restrictions
Bananas	Leafhoppers Mealybugs Scales Whiteflies	7 oz	<ul style="list-style-type: none"> <li>• Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details.</li> <li>• Good coverage is essential. Apply by ground in a minimum of 15 gallons of water per acre. 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.</li> <li>• Apply no more than four applications per season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply within one day of harvest.</li> </ul>
Citrus	California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter	35 to 46 oz	<ul style="list-style-type: none"> <li>• Treatment should be made when peak crawler emergence occurs. Consult local and State agricultural authorities for details.</li> <li>• Good coverage is essential. Apply by ground application using 750 to 2000 gallons of water per acre.</li> <li>• Apply no more than two applications per season.</li> <li>• Allow at least 60 days between applications.</li> <li>• Do not apply within 60 days of harvest.</li> </ul>
Grapes	Leafhoppers Mealybugs	9 to 12 oz	<ul style="list-style-type: none"> <li>• Treatment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details.</li> <li>• Good coverage is essential. Apply by ground application using 50 to 200 gallons of water per acre, depending on the size of the grapes. 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.</li> <li>• Apply no more than two applications per crop cycle.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply within 30 days of harvest.</li> </ul>
Longan Lychee Pulasan Rambutan Spanish Lime	Scales	36 oz	<ul style="list-style-type: none"> <li>• Apply by ground in a minimum of 75 gal/acre spray volume.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not make more than 2 applications per year.</li> <li>• Do not apply within 21 days of harvest.</li> <li>• Do not exceed 72 oz/A (3.16 lb a/A) per year.</li> </ul>

#### STORAGE AND DISPOSAL

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

**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:** Completely empty container into application equipment. Then dispose of empty packaging in a sanitary landfill, or by incineration, or, if allowed by State or 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.

**CONDITIONS:** The directions for use of this product are believed to be accurate and should be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks are assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES,

EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NAI is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. NAI disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability, or otherwise.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT THE ELECTION OF NICHINO AMERICA, THE REPLACEMENT OF PRODUCT.

©2004, Nichino America, Inc.

APPLAUD® is a trademark of Nichino America, Inc.

Active Ingredient Made in Japan; Formulated and Packaged in U.S.A.

**Nichino America, Inc.**

4550 New Linden Hill Road, Suite 501

Wilmington, DE 19808

www.nichino.net

090401

NOV 29 2004

5/10

**Nichino America, Inc.****APPLAUD® 70DF Insect Growth Regulator****FOR Almonds, Bananas, Citrus, Grapes, Longan, Lychee, Pulasan, Rambutan, and Spanish Lime****ACTIVE INGREDIENT:**

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

**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

**KEEP OUT OF REACH OF CHILDREN  
CAUTION****FIRST AID**

<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

**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.

For product information use internet website [www.nichino.net](http://www.nichino.net)

**Net Contents:** \_\_\_\_\_

Active Ingredient Made in Japan; Formulated and Packaged in U.S.A.

**Nichino America, Inc.**

4550 New Linden Hill Road, Suite 501

Wilmington, DE 19808

[www.nichino.net](http://www.nichino.net)

**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.

**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

**GENERAL INFORMATION**

APPLAUD® 70DF insect growth regulator contains the active ingredient, buprofezin. It is effective against the nymph stages of whitefly, scales, 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 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 is not for sale, sale into, distribution, and or use in Nassau and Suffolk counties of New York state.

## INSECTS CONTROLLED

**Whiteflies:** Ash whitefly; Greenhouse whitefly; Silverleaf whitefly; Sweet potato whitefly

**Mealybugs:** Citrus mealybug; Comstock mealybug; Grape mealybug; Longtailed mealybug; Mexican mealybug; Obscure mealybug  
Vine mealybug

**Leafhoppers and Planthoppers:** Brown planthopper; Cherry leafhopper; Eastern grape leafhopper; Glassy-winged sharpshooter;  
Potato leafhopper; Variegated leafhopper; Western grape leafhopper

### 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:** Boissduval scale; Cactus scale; California red scale; Coconut scale; Fern scale; Florida red scale; Oystershell scale;  
San Jose scale

**Margarodid Scale:** Cottony cushion scale

## MIXING, LOADING, AND HANDLING INSTRUCTIONS

### SPECIFIC MIXING INSTRUCTIONS

**APPLAUD 70DF 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 TANK MIXTURES:** Follow all use directions as listed above under **APPLAUD 70DF ALONE** with the following exception: after the APPLAUD 70DF 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 TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING:** Follow all use directions as listed above under **APPLAUD 70DF 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 is added. **Note:** If using products in water soluble packaging, do not tank mix with products that contain boron, chromium, or other micronutrients.

## RESISTANCE MANAGEMENT

APPLAUD 70DF belongs to a class of chemicals not previously used as pesticides and 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, do not make more than two consecutive applications. Prior to subsequent applications, use an alternative chemistry with a different mode of action. If a different crop in an adjacent field has been treated with buprofezin against silverleaf whitefly within the past 28 days, do not apply APPLAUD 70DF as the first silverleaf whitefly application. 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.

## USE PRECAUTIONS

- Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground, unless otherwise specified in Directions for Use.
- Crop Rotational Restrictions: All crops listed on this label may be planted at any time. Small grain crops and leafy vegetables may be planted 30 days following application. All other crops may be planted 60 days following application.
- Do not apply this product through any type of irrigation system.

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

Crop	Pest	Dosage Rate Formulated Product/A	Application Directions And Restrictions
Almonds	San Jose scale	35 to 46 oz	<ul style="list-style-type: none"> <li>Treatment should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details.</li> <li>Good coverage is essential. Apply by ground application using a minimum of 400 gallons of water per acre.</li> <li>Apply no more than one application per season.</li> <li>Do not apply within 60 days of harvest.</li> </ul>
Bananas	Leafhoppers Mealybugs Scales Whiteflies	7 oz	<ul style="list-style-type: none"> <li>Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details.</li> <li>Good coverage is essential. Apply by ground in a minimum of 15 gallons of water per acre. 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.</li> <li>Apply no more than four applications per season.</li> <li>Allow at least 14 days between applications.</li> <li>Do not apply within one day of harvest.</li> </ul>
Citrus	California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter	35 to 46 oz	<ul style="list-style-type: none"> <li>Treatment should be made when peak crawler emergence occurs. Consult local and State agricultural authorities for details.</li> <li>Good coverage is essential. Apply by ground application using 750 to 2000 gallons of water per acre.</li> <li>Apply no more than two applications per season.</li> <li>Allow at least 60 days between applications.</li> <li>Do not apply within 60 days of harvest.</li> </ul>
Grapes	Leafhoppers Mealybugs	9 to 12 oz	<ul style="list-style-type: none"> <li>Treatment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details.</li> <li>Good coverage is essential. Apply by ground application using 50 to 200 gallons of water per acre, depending on the size of the grapes. 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.</li> <li>Apply no more than two applications per crop cycle.</li> <li>Allow at least 14 days between applications.</li> <li>Do not apply within 30 days of harvest.</li> </ul>
Longan Lychee Pulasan Rambutan Spanish Lime	Scales	36 oz	<ul style="list-style-type: none"> <li>Apply by ground in a minimum of 75 gal/acre spray volume.</li> <li>Allow at least 14 days between applications.</li> <li>Do not make more than 2 applications per year.</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not exceed 72 oz/A (3.16 lb ai/A) per year.</li> </ul>



### STORAGE AND DISPOSAL

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

**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:** Completely empty container into application equipment. Then dispose of empty packaging in a sanitary landfill, or by incineration, or, if allowed by State or 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.

**CONDITIONS:** The directions for use of this product are believed to be accurate and should be followed carefully. However, because of extreme weather and soil conditions, use methods and other factors beyond the control of Nichino America, Inc. (NAI), it is impossible for NAI to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks are assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of NAI is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. NAI disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability, or otherwise.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT THE ELECTION OF NICHINO AMERICA, THE REPLACEMENT OF PRODUCT.

**Nichino America, Inc.**  
4550 New Linden Hill Rd., Suite 501  
Wilmington, DE 19808

©2004. Nichino America, Inc.

APPLAUD® is a trademark of Nichino America, Inc.

111004

SENT VIA FEDEX

November 10, 2004

Mr. Richard Gebken (Acting Product Manager 10)  
Office of Pesticide Programs (7504-C)  
Registration Division-H7505C  
U.S. Environmental Agency  
Room 266 A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

RE: Submission of Amended Section 3 Federal Label Per Notification  
PR Notice 98-10  
Nichino America, Inc.  
Applaud® 70 DF Insect Growth Regulator  
(EPA Reg No. 71711-21)

Dear Mr. Gebken:


We have corrected the subject section 3 federal label via notification, per PR Notice 98-10 Section II N. Minor label changes. In the grape section on page 4, the use instructions had previously contradicted itself with a 28 day interval between application, rather than the previous EPA-approved "Applaud" master label of 14 days. The PHI was to read only 30 days, not both 30 and 7 days. The use recommendations for Applaud® DF are now consistent with the "Applaud" 70 WP label (EPA Reg No. 71711-15).

Attached are the following:

- EPA application form, 8570-1
- "Certification Statement"
- Two copies of labeling, identified as 111004
- One copy of labeling, with changes highlighted
- Two copies of final printed label, identified as 090401

If you have any questions, you are welcome to call me at (302) 636-9001 or email at [mmaks@nichino.net](mailto:mmaks@nichino.net). Thank you.

Sincerely,



Marie A. Maks  
Manager, Regulatory Affairs  
Nichino America, Inc.

