ichino America.

APPLAUD® 70WP Insect Growth Regulator

FOR Almonds, Bananas, Citrus, Cotton, Cucumbers, Grapes, Lettuce, Melons, Pumpkins, Squesh, and Tomatoes

ACTIVE INGREDIENT:

Buorofezin: 2-tert-butyfimino-3-isopropyi-5-phenyl-1,3,5-thidiszinen-4-one WERT INGREDIENTS: 30.00%

Contains 0.70 lbs. buprofezin per pound of product 100,00%

EPA Reg. No. 71711-15

EPA Est. No. 67545-AZ-1

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID				
If inhaled	 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 sidn or clothing	Take off contaminated clothing Rines sidn immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.			
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Ramove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 			
hewoilswe'h	 Call poison control center or doctor immediately for treatment advice. Have person sip a gless 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

Here the product container or label with you when calling a poleon 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 catiling 1-800-424-9300.

NOTE TO PHYICIAN: 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

ACCEPTED

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Nichino America, inc. 4550 New Linden Hill Road, Suite 501 Wilmington, DE 19806

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 intration. Avoid contact with skin, eyes or clothing. Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash before rause.

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 weeh PPE separately from other laundry.

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.

USER SAFETY RECOMMENDATIONS

Uppers should: Wash hands before setting, drinking, chewing gum, using tobacco, or using the tollet.

ENVIRONMENTAL HAZARDS

For terrestriel 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 sizes 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 sasistance. 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:

- Coverable over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chamical-resistant footwear

GENERAL INFORMATION

APPLAUD® 70WP Insect Growth Regulator contains the active ingredient, buprofezin. It is effective against the nymph stages of whitely, scales, meetybugs, planthoppers and leafhoppers by inhibiting chitin biosynthesis, suppresses oviposition of adults, and reduces visibility of eggs. Treated succeptible pests may remain alive on the plant for 3-7 days but feeding damage during this time is typically very low. APPLAUD® 70WP 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.

INSECTS CONTROLLED

Whitefiles: Silverleef whitefly (Bemisia argentifolit), Sweet potato whitefly (Bemisia tabaci), Greenhouse whitefly (Trieleurodes vaporariorum), Ash whitefly (Siphoninus philiyreee)

Macheure: Longtalled mealybug (Pseudococous longispinus), Citrus mealybug (Planococous citri), Mexican mealybug (Phenecocous gossyph), Comstock mealybug (Pseudococous comstocki), Obscure mealybug (Pseudococcus affinis)

Legitioppers and planthoppers: Cherry legitiopper (Fieberleile floril), Potsto legitiopper (Empossos fabee), Brown planthopper (Nilepervate lugere)

Scales:

Soft Scales: Black scale (Saissetis cisee), Bernacie scale (Ceropiastes cirripediformis), Indian wax scale (Ceropiastes ceriferus) and other wax scales, Hemispherical scale (Saissetis coffee), Tessellated scale (Eucalymnatus tessellatus), Brown Soft scale (Coccus hesperidium), White peach scale (Pseudaulacaapis pentagone), False cleander scale (Pseudaulacaapis cockerelli)

Armored Scales: Cactus scale (Disacis echinocacti), Coconut scale (Aspidiotus destruotor), California red scale (Aonidielle eurantii), Florida red scale (Chrysomphalus echidum), Fern scale (Pinnespis aspidistree), Boleduvai scale (Disacis boleduvaii), Oystershell scale (Lepidosephes ulmi), San Jose scale (Quadraspidiotus perniciosus)

Margarodid Scale: Cottony cushion scale (Icerya purchasi)

MIXING, LOADING AND HANDLING INSTRUCTIONS

USE PRECAUTIONS

DO NOT use APPLAUD® 70WP water-soluble bags in a tank mix with products that contain boron, chromium or other micronutrients.

GENERAL HANDLING INSTRUCTIONS

APPLAUDS 70WP insect growth regulator is sealed in 1.0 lb. water-soluble bags. Do not open the foil-lined outer box until time of use. Do not use a knife or other sharp object to open the foil lined outer box. Once the outer protective box has been opened, the water-soluble bag inside can be dropped into the spray tank at the appropriate time.

SPECIFIC MIXING INSTRUCTIONS: To ensure proper mixing of the soluble bags, follow the instructions below:

- 1. APPLAUD® 76WP ALONE: Begin by filling the spray tank with clean water to prime the system (about 6 to 8 inches for most sprayers.) Turn off the fill valve and drop the recommended number of soluble bags into the tank, distributing them across the bottom but not covering the circulation and outlet holes. After the bags have socked for 2 minutes, start the agitation and agitate thoroughly for 2 minutes. With the agitation on, continue to fill the spray tank to the desired level. Agitate during spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.
- 2. APPLAUDE 70WP TANK MIXTURES: Follow all use directions as listed above under APPLAUDE 70WP ALONE with the following exception: after the APPLAUDE 70WP bags are thoroughly mixed and the water is added to fill the tank ½ 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 (except fertilizers containing boron, chromium or other micronutrients, see USE PRECAUTIONS), surfactant, or crop oil concentrate to the spray tank. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.
- 3. APPLAUD® 70WP TANK MIXTURES WITH PRODUCTS IN WATER SOLUBLE PACKAGING: Follow all use directions as listed above under APPLAUD® 70WP ALONE with the following exception add the desired number of other water soluble bags to the tank (if allowed by their label instructions) at the same time the APPLAUD® 70WP bags are added to the spray tank.

HANDLING PRECAUTIONS FOR WATER-SOLUBLE BAGS

- Do not allow the foil fined outer box or portions thereof to fall into spray tank as they are not water-soluble and may clog the sprayer.
- . Do not handle the soluble bag with wet gloves, as the bag will begin to dissolve on contact with even a small amount of water.
- Do not open the soluble bag or attempt to remove the APPLAUD® 70VVP from it. The product is not designed to be re-measured
 or subdivided; the entire contents of the water-soluble bag must be used.

Refer to the charts below for the proper application rate of APPLAUD® 70WP insect Growth Regulator.

RESISTANCE MANAGEMENT

APPLAUD 70 WP 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 orop and use area. Such strategies may include rotating with insecticides with different modes of action. Consult your local pest control advisor or established of 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 horizoitural specialist or local agricultural authorities for the best alternative method of control. To preserve the usefulness of APPLAUD 70 WP do not make more than two consecutive applications. Use an alternative chamistry with a different mode of action between applications. If a different crop in an adjacent field has been treated with APPLAUD® 70WP against silverleef whitefly within the past 28 days, do not apply APPLAUD® 70WP as the first silverleef 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.

APPLICATION RATE CHART FOR APPLAUD® 70WP INSECT GROWTH REGULATOR

		DOSAGE RATES		
Crop	Post	Rate	Lb. formulated product	
Almonde	San Jose scale	1.5-2.0 lb, aVA	2.14-2.86 (36 to 46 oz)	
Bananas ²	Whitefies, leafhoppers, mestybugs, scales	0.31 tb. aVA	0.44 (7 oz)	
Citrus ³	California red scale	1.5-2.0 lb, aVA	2.14-2.86 (35 to 46 oz)	
Cotion ⁴	Whitefies	0.35 lb. al/A	0.5 (8 oz)	
Cucumbers 6	Whitefies	0.25 - 0.38 lb m/A	0.36 - 0.54 (6 to 9 oz)	
Grapes .	Leafhoppers	0.38-0.5 lb, ai/A	0.54 - 0.71 (9 to 12 oz)	
Lettuce (heed and leef) 7	Whiteflee	0.25 - 0.38 lb al/A	0.36 - 0.54 (6 to 9 az)	
Meione (cantaloupe, honeydew meione, wystermelone, muskmalone) ⁸	Whitefies	0.25 - 0.38 lb mi/A	0.36 - 0.54 (8 to 9 oz)	
Pumpkins	Whitefies	0.25 - 0.38 lb =/A	0.36 - 0.54 (8 to 9 oz)	
Squash	Whitefies	0.25 - 0.38 to at/A	0.36 - 0.54 (8 to 9 oz)	
Tomatoes	Whitefles	0.25-0.38 lb. ai/A	0.36 - 0.64 (6 to 9 oz)	

Almonds

Treatment should be applied when peak crawler emergence occurs. Consult local or State agricultural authorities for details. Good coverage is essential. Apply by ground application using a minimum of 400 gallons of water per acre. Apply no more than one application per season.

Do not apply within 60 days of hervest.

Bananas

2

Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details.

Good coverage is essential. Apply by ground in a minimum of 15 gallons of water per sore. Use of a higher volume of water will assure better coverage, especially under edverse conditions, such as hot, dry weather and/or a dense canopy. Apply no more than four applications per sesson. Allow at least 14 days between applications. Do not apply within one day of hervest.

Citrue

Treatment should be made when pask crawler emergence occurs. Consult local and State agricultural authorities for detaile, Good coverage is essential. Apply by ground application using 760 to 2000 gallons of water per acre. Apply no more than two applications per sesson. Allow at least 60 days between applications. Do not apply within 60 days of hervest.

Cotton

Treatment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details.

Good coverage is essential. With ground application, use 10 to 50 gallons of water per scre. For serial application, use a minimum of 5 gallons per scre. Orient nozzles to sesure 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. The entire field should be treated. Apply no more than two applications per sesson. Allow at least 25 days between applications. See the RESISTANCE MANAGEMENT section.

Do not apply within 14 days of harvest.

Cucumbers

Allow at least 7 days between applications to quourbits.

Do not apply within 7 days of hervest.

Do not make more than 2 applications per grop cycle. Do not make more than 4 applications per year.

Trestment should be applied when population level reaches economic threshold. Consult local and State agricultural authorities for details.

Good coverage is essential. Apply by ground application using 50 to 200 gallons of water per sore, depending on the size of the grades. 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 end/or a dense canopy.

Apply no more than two applications per season. Allow at least 14 days between applications.

Do not apply within 30 days of harvest

Lettuce (Head and Leaf)

Do not apply within 10 days of harvest in California and 7 days outside California.

Allow at least 7 days between applications to lettuce.

Do not make more than 2 applications per grop cycle. Do not make more than 4 applications per year.

Melons (cantaloupe, honeydew meions, watermeions, muskmelons), Pumpkins. Squash

Do not apply within 10 days of harvest in California and 7 days outside California. Allow at least 7 days between applications to cucurbit crops.

Do not make more than 2 applications per crop cycle. Do not make more than 4 applications per year.

Tomatoes

Treatment should be applied when population level reaches soonomic threshold. Consult local and State agricultural authorities for detalls.

Good coverage is essential. Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground to accommodate for the size of the tomato plants. Orient nozzles to assure better coverage. Use of a higher volume of water will sesure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy. The entire field should be treated.

Apply no more than two applications per season. Allow at least 28 days between applications.

Do not apply within 7 days of hervest

See the RESISTANCE MANAGEMENT section.

USE FRECAUTIONS

Apply in a minimum finished spray volume of 5 gallons per acre by air or 20 gallons per acre by ground.

Do not plant food crops not listed on this label within 120 days following application.

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

Application chart for Determining Dosage Rate of Application 70WP

Using 5 X 1 lb water soluble bags or 1.08 lb boxes

Rate Lb al/A	Lb Formulated/A	Number of 1 lb water soluble pigs. (within 5 lb outer beg)	Number of 1.08 lb boxes (containing 3 X 0.36 lb WSP ¹)	Number of Acres treated
0.25	0,36	3		2.8 8.4
		5		14.0
			1	3.0
		1	3	9.0
			5	15.0
		1		2.3
		3	1	6.8
0.31	0.44	5		11.4
			1	2.5
		1	1 3 5	7.4
	1		5	12.3
		1	!	2.0
0.38	0.50	1 3 5		6.0
		5	!	10.0
			1 1	2.2
		•	1 3	6.5
		· l	5	10.8
		1		1,8
0.38	0.54	3	1	5.5
5.55		3 5	1	9.2
			1 1	2.0
			3	6.0
			5	10.0
-		4	 	1.4
0.50	0.71	3 5		4.2
	-	l ă	1	7.0
		1	1 1	1.5
			3	4.6
			1 3 6	7.6
		4	ļ	8.0
1.5	2.14	1 3 5]	1.4
- 		5		2.3
			1 1	0.5
			3	1.5
			1 3 5	2.5
			1	0.4
2.0	2.86	3	1 3	1.1
		5	3 5	1.8

water soluble packages

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.

PESTICHDE DISPOSAL: Wastes resulting from the use of this product may be disposed of an alte or at an approved weste disposal facility.

CONTAINER DISPOSAL: Remove inner water-soluble bag from outer packaging and place inner bag into application equipment. Then dispose of empty outer packaging in a sanitary landfill, or by indineration, 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 advance weather end 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 discisions any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, sopress or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

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Nichino America, Inc. 2001

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