

Nichino America, Inc.**APPLAUD[®] 70DF Insect Growth Regulator****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**

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.

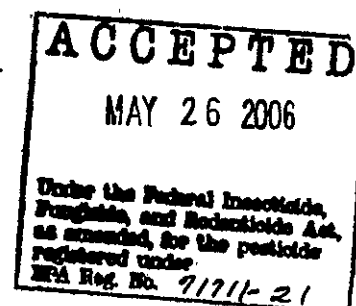
NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

For product information use internet website www.nichino.net

Net Contents: _____

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

Nichino America, Inc.
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Wilmington, DE 19808
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PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUTION

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

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.

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INSECTS CONTROLLED

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

Mealybugs: Striped mealybug; Citrus mealybug; Comstock mealybug; Grape mealybug; Longtailed mealybug; Mexican mealybug; Obscure mealybug; Vine mealybug; Gilli 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. 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. For gallonage per acre by ground, refer to Application Rate Chart.
- 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 Pistacho	Scales	34.5 to 46 oz	<ul style="list-style-type: none"> 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 harvest.
	Mealybugs	9 to 12 oz	
Bananas	Leafhoppers Mealybugs Scales Whiteflies	7 oz	<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. 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. Apply no more than four applications per season. Allow at least 14 days between applications. Do not apply within one day of harvest.
Citrus	California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter	34.5 to 46 oz	<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. Apply by ground application using 750 to 2000 gallons of water per acre. Apply no more than two applications per season. Allow at least 60 days between applications. Do not apply within 3 days of harvest.
Grapes	Leafhoppers Mealybugs	9 to 12 oz	<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. 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. Apply no more than two applications per crop cycle. Allow at least 14 days between applications. Do not apply within 30 days of harvest.

Acerola Atemoya Avocado Biriba Black sapote Canistel Cherimoya Custard apple Feijoa Guava Ilama Jaboticaba Mamey sapote Mango Papaya Passion fruit Sapodilla Soursop Star apple Starfruit Sugar apple Wax jambu	Scales	34.5 oz	<u>Limited to Florida, Hawaii, and Puerto Rico</u> <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. Apply by ground application using at least 20 gallons of water per acre. • Apply no more than two applications per season. • Do not apply more than 69 oz per acre per season. • Do not apply within 21 days of harvest.
	Leafhoppers Mealybugs Whiteflies	9 to 12 oz	
Longan Lychee Pulasan Rambutan Spanish Lime	Scales	34.5 oz	<ul style="list-style-type: none"> • Apply by ground in a minimum of 75 gal/acre spray volume. • Allow at least 14 days between applications. • Do not make more than 2 applications per year. • Do not exceed 72 oz/A (3.16 lb ai/A) per year. • Do not apply within 21 days of harvest.

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.

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