

BUPROFEZIN

GROUP

16

INSECTICIDE



# APPLAUD<sup>®</sup>

INSECT GROWTH REGULATOR

**ACTIVE INGREDIENT:**

**Buprofezin:** 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-4-one .....70.0%

**OTHER INGREDIENTS:** .....30.0%

**TOTAL** .....100.0%

Contains 0.70 lb buprofezin per pound of product

(GM)

(E)

EPA Reg. No. 71711-21

EPA Est. No. 67545-AZ-1 39578-TX-1  
superscript corresponds with lot number

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

*See inside booklet for First Aid, Precautionary Statements, and Directions for Use*

**NET CONTENTS: 3.75 pounds**

450523

08/18

**NICHINO  
AMERICA<sup>®</sup>**

Nichino America, Inc.  
4550 Linden Hill Road, Suite 501  
Wilmington, DE 19808

## FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a 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 by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</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 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 mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further 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.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For additional information on this pesticide product, including human health concerns and medical emergencies, call 1-800-348-5832.

**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. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. 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

### STATEMENTS FOR CONTAMINATED PPE

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

## ENGINEERING CONTROLS

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

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

## 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 when disposing of equipment washwater or rinsate.

## 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 requirement specific to your state or tribe, consult the state/tribal 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), restricted-entry interval, and notifications to workers.

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

For early entry into 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, wear:

- Coveralls
- Waterproof gloves
- Socks plus shoes

## PRODUCT INFORMATION

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

**APPLAUD** is not disruptive to beneficial insects and mites.

**APPLAUD** is a contact insecticide so thorough spray coverage is essential. Apply by ground or air in sufficient water volume. Orient nozzles to ensure good coverage. Use of higher volume of water will ensure 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.

**Not for sale, sale into, distribution, and/or use in Nassau and Suffolk counties of New York State.**

## INSECTS CONTROLLED

**Whiteflies:** Ash whitefly; Bandedwinged whitefly; Greenhouse whitefly; Silverleaf whitefly; Sweetpotato whitefly

**Mealybugs:** Apple mealybug; Citrus mealybug; Comstock mealybug; Gill's mealybug; Grape mealybug; Longtailed mealybug; Madeira 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

### Scales:

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

**Margaridid Scale:** Cottony cushion scale

**Soft Scales:** Barnacle scale; Black scale; Brown soft scale; Citricola scale; European fruit lecanium scale; False oleander scale; Frosted scale; Hemispherical scale; Indian wax scale and other wax scales; Tessellated scale; White peach scale

## USE RESTRICTIONS

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

## ROTATIONAL CROP RESTRICTIONS

Crop	Plantback Timing
All crops registered for use with buprofezin	0 days following application
Cereal grains	30 days following application
All other crops	60 days following application

## RESISTANCE MANAGEMENT

For resistance management, **APPLAUD** contains a Group 16 insecticide. Any insecticide population may contain individuals naturally resistant to **APPLAUD** and other Group 16 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of **APPLAUD** or other Group 16 insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, recordkeeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Nichino America representatives at 888-740-7700.

## 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 or state cooperative extension service for recommendations.

## MIXING DIRECTIONS

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. Mix only as much spray solution as can be sprayed within four hours. Storage and use of the previous day's spray mix may result in reduced activity.

**APPLAUD 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.

**APPLAUD Tank Mixtures:** Begin with clean equipment. Fill spray tank with  $\frac{3}{4}$  of the amount of water needed for the intended application, and turn on agitation. If using a buffering agent, add after filling the tank with  $\frac{3}{4}$  amount of water. Do not use oil as carrier or include other additives in the finished spray.

Add the recommended amount of tankmix products in the following order while maintaining agitation:

- 1) products in water-soluble packets
- 2) wettable powders
- 3) water-dispersible granulars and/or soluble powders
- 4) flowable liquids
- 5) emulsifiable concentrates
- 6) adjuvants and/or oils
- 7) remaining amount of water to achieve the desired level

**Note:** It is recommended that the compatibility of **APPLAUD** in any tankmix combination be tested before use. To determine the physical compatibility with other products, use a jar test as described below:

Using a quart (qt) jar, add the proportionate amounts of the products to 1 qt of water. Add wettable powders and water-dispersible granular products first, then flowable liquids, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed, or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure to adding required ingredients to the spray tank.

**Read and follow all label directions for each tankmix product. Always use in accordance with the most restrictive of label precautions and limitations.**

## SPRAY DRIFT REDUCTION MANAGEMENT

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

### Importance of Droplet Size

An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

## **Ground Applications**

Wind speed must be measured adjacent to the application site on the upwind side immediately prior to application. For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy. For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two (2) rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

## **Aerial Applications**

The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter. Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

## **Wind Speed Restrictions**

Drift potential increases at wind velocities of less than 3 mph (due to inversion potential) or more than 10 mph. However, many factors including droplet size, canopy, and equipment specifications determine drift potential at any given wind speed. Only apply this product if the wind direction favors on-target deposition. Do not apply when wind velocity exceeds 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

## **Restrictions During Temperature Inversions**

Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions are characterized by stable air and increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by mist or ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source. Smoke that layers and moves laterally near the ground surface in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

## APPLICATION RATE CHART FOR APPLAUD

<b>Acerola; Atemoya; Avocado; Biriba; Cherimoya; Custard Apple; Feijoa; Guava; Ilima; Jaboticaba; Passion Fruit; Soursop; Starfruit; Sugar Apple; Wax Jambu</b>		
Pest	Rate/Acre	Directions for Use
Scales	34.5 oz/acre (1.5 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 20 gallons of water per acre.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <p><b>Limited to Florida, Hawaii, and Puerto Rico</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 69.0 oz of product per acre per growing season.</li> </ul>
Leafhoppers Mealybugs Whiteflies	9.0 to 12.0 oz/acre (0.40 to 0.53 lb ai/acre)	<ul style="list-style-type: none"> <li>• Do not apply more than 3.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 21 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> <li>• <b>Scales:</b> Apply at early crawler emergence.</li> </ul>

<b>Black Sapote; Canistel; Mamey Sapote; Mango; Papaya; Sapodilla; Star Apple</b>		
Pest	Rate/Acre	Directions for Use
Leafhoppers Mealybugs Scales Whiteflies	9.0 to 12.0 oz/acre (0.40 to 0.53 lb ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 20 gallons of water per acre.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <p><b>Limited to Florida, Hawaii, and Puerto Rico</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 5 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 45.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 1.97 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 3 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> <li>• <b>Scales:</b> Apply at early crawler emergence.</li> </ul>



**APPLICATION RATE CHART FOR APPLAUD** *(continued)*

<b>Banana</b>		
<b>Pest</b>	<b>Rate/Acre</b>	<b>Directions for Use</b>
Leafhoppers Mealybugs Scales Whiteflies	7.0 oz/acre (0.31 lb ai/acre)	<ul style="list-style-type: none"><li>• Apply by ground application using a minimum of 15 gallons of water per acre.</li><li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li></ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"><li>• Do not make more than 4 applications per growing season.</li><li>• Allow at least 14 days between applications.</li><li>• Do not apply more than 27.0 oz of product per acre per growing season.</li><li>• Do not apply more than 1.18 lbs ai per acre per growing season.</li><li>• Preharvest Interval (PHI): 1 day</li></ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"><li>• Thorough spray coverage is essential. Use of a higher volume of water will ensure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.</li><li>• Treatment should be applied when population level reaches economic threshold. Consult local or state agricultural authorities for details.</li></ul>

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## APPLICATION RATE CHART FOR APPLAUD *(continued)*

### Citrus Fruits (Crop Group 10)

calamondin; citrus, citron; citrus hybrids (includes chironja, tangelo, tangor); clementine; grapefruit; kumquat; lemon; lime; mandarin; orange, sour; orange, sweet; pummelo; satsuma mandarin; tangerine

Pest	Rate/Acre	Directions for Use
Black scale California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter Mealybugs Wax scale	34.5 to 46.0 oz/acre (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 500 gallons of water per acre.</li> <li>• Apply with sufficient water volume according to tree size.</li> <li>• Thorough spray coverage of the fruit, foliage, and wood is essential for maximum results.</li> <li>• When using the minimum water volume, trees must not exceed 10 feet tall, tree canopy must be opened up, and tractor speed must not exceed 1.5 miles per hour.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 60 days between applications.</li> <li>• Do not apply more than 92.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 4.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 3 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential.</li> <li>• <b>Red scale:</b> Applications should begin at early crawler emergence.</li> <li>• <b>Citricola scale:</b> Apply after complete crawler hatch. Spring applications can provide suppression and minimize honeydew accumulation.</li> <li>• <b>Cottony cushion scale:</b> Applications should occur after complete crawler hatch.</li> <li>• <b>All other pests:</b> Application should be made when early crawler emergence occurs.</li> </ul>

*(continued)*

## APPLICATION RATE CHART FOR APPLAUD *(continued)*

Coffee		
Pest	Rate/Acre	Directions for Use
Mealybugs Scales	23.0 oz/acre (1.0 lb ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 50 gallons of water per acre.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 4 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 91.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 4.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 0 day</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential.</li> <li>• Treatment should be applied when population level reaches economic threshold.</li> </ul>

*(continued)*

## APPLICATION RATE CHART FOR APPLAUD *(continued)*

Grape		
Pest	Rate/Acre	Directions for Use
European Fruit Lecanium Scale	12.0 oz/acre (0.53 lb ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground using a minimum of 50 gallons of water per acre. Water volumes should be adjusted based on the size of the grape canopy. Higher water volumes should be used for dense canopies.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul>
Leafhoppers Mealybugs	9.0 to 12.0 oz/acre (0.40 to 0.53 lb ai/acre)	<p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 24.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 1.05 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 7 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential. Orient nozzles to ensure good coverage. Use of a higher volume of water will ensure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.</li> <li>• <b>Leafhoppers:</b> Apply when majority of the population is at the early nymphal stage.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> </ul>
Mealybugs	24.0 oz/acre (1.05 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground using a minimum of 50 gallons of water per acre. Water volumes should be adjusted based on the size of the grape canopy. Higher water volumes should be used for dense canopies.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <p><b>This Application Rate Allowed in California and Arizona Only.</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 24.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 1.05 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 30 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential. Orient nozzles to ensure good coverage. Use of a higher volume of water will ensure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> </ul>

## APPLICATION RATE CHART FOR APPLAUD *(continued)*

### Longan; Lychee; Pulasan; Rambutan; Spanish Lime

Pest	Rate/Acre	Directions for Use
Scales	34.5 oz/acre (1.5 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 75 gallons per acre spray volume.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 69.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 3.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 21 days</li> </ul>

### Olive

Pest	Rate/Acre	Directions for Use
Scales	34.5 to 46.0 oz/acre (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using 110 to 500 gallons per acre spray volume. Apply in sufficient water volume to provide adequate coverage for tree size. Thorough coverage is critical for adequate control.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 50 days between applications.</li> <li>• Do not apply more than 92.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 4.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 21 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential. Orient nozzles to ensure good coverage. Use of a higher volume of water will ensure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.</li> <li>• <b>Black scale:</b> Applications should occur after complete crawler hatch.</li> <li>• <b>All other scales:</b> Apply at early crawler emergence.</li> </ul>

## APPLICATION RATE CHART FOR APPLAUD *(continued)*

Persimmon		
Pest	Rate/Acre	Directions for Use
European Fruit Lecanium Scale Frosted Scale Mealybugs Soft Scales	34.5 oz/acre (1.5 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground using a minimum of 100 gallons of water per acre.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Do not apply more than 69.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 3.0 lbs ai per acre per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Preharvest Interval (PHI): 14 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• <b>Mealybugs:</b> Application should be made at the beginning of crawler emergence.</li> <li>• <b>Scales:</b> Application should be made at the beginning of crawler emergence of the scale generation being targeted.</li> </ul>

*(continued)*

## APPLICATION RATE CHART FOR APPLAUD *(continued)*

Pomegranate		
Pest	Rate/Acre	Directions for Use
Whiteflies	12.0 to 34.5 oz/acre (0.53 to 1.5 lbs ai/acre)	<ul style="list-style-type: none"> <li>• Apply by ground application using a minimum of 50 gallons of water per acre.</li> <li>• For aerial applications, apply in a minimum finished spray volume of 5 gallons per acre.</li> </ul> <p><b>USE RESTRICTIONS</b></p> <ul style="list-style-type: none"> <li>• Do not make more than 2 applications per growing season.</li> <li>• Allow at least 14 days between applications.</li> <li>• Do not apply more than 69.0 oz of product per acre per growing season.</li> <li>• Do not apply more than 3.0 lbs ai per acre per growing season.</li> <li>• Preharvest Interval (PHI): 14 days</li> </ul> <p><b>RECOMMENDATIONS</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential.</li> <li>• <b>Brown soft scale:</b> Application can be made at dormant timing, targeting the overwintering population or at crawler emergence.</li> <li>• <b>San Jose scale:</b> Application can be made at dormant, delayed dormant, prebloom, or in-season at early crawler emergence.</li> <li>• <b>Other scales:</b> Apply at early crawler emergence.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> <li>• <b>Whiteflies:</b> Apply at early nymph threshold.</li> </ul>
Mealybugs Scales	34.5 to 46.0 oz/acre (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> <li>• <b>San Jose scale:</b> Application can be made at dormant, delayed dormant, prebloom, or in-season at early crawler emergence.</li> <li>• <b>Other scales:</b> Apply at early crawler emergence.</li> <li>• <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.</li> <li>• <b>Whiteflies:</b> Apply at early nymph threshold.</li> </ul>

## STORAGE AND DISPOSAL

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

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

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment; then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not burn unless allowed by state and local ordinances. In most states, burning is not allowed.

**In case of fire or spills, information may be obtained by calling 1-800-424-9300.**

## 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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## Nichino America, Inc.

4550 Linden Hill Road, Suite 501

Wilmington, DE 19808

888-740-7700

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