

71711-21

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

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MAR 6 2012

Anna Armstrong
Nichino America, LLC
4550 New Linden Hill Rd, Ste 501
Wilmington, DE 19808

Subject: Applaud 70DF Insect Growth Regulator, EPA Reg. No. 71711-21
Date of Registrant Submission: June 2, 2011
Decision: 458050

Dear Ms. Armstrong:

The labeling referred to above, submitted in connection with registration under the Federal insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

At your next label printing, or within eighteen (18) months, whichever comes first, you must incorporate the supplemental labeling into the main product labeling. Stamped copies of the label are enclosed for your records.

Two (2) copies of the finished labeling must be submitted prior to releasing each product for shipment. If you have any questions regarding this letter, please contact Samantha Hulkower at (703) 603-0683.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark Suarez", with a long horizontal line extending to the right. To the right of the signature is a small handwritten mark that looks like "fer".

Mark Suarez
Product Manager 13
Insecticide Branch
Registration Division (7505P)

Enclosure: Copy of Labels Stamped "Accepted"

2/15

GROUP 16 INSECTICIDE

NICHINO AMERICA

APPLAUD® 70DF Insect Growth Regulator

ACTIVE INGREDIENT:

Buprofezin: 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinan-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

Marketing Brands: Applaud® Insect Growth Regulator, Centaur® WDG Insect Growth Regulator, and Talus® 70DF Insect Growth Regulator

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-348-5832 for emergency medical treatment information. In case of fire or spills, information may be obtained by calling 1-800-424-9300.	
NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.	

Net Contents: _____

ACCEPTED
Active Ingredient Made in China; Formulated and Packaged in USA

MAR 6 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71711-21

Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808
888-740-7700

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals

CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

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

User Safety Recommendations
Users should: Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENGINEERING CONTROLS STATEMENT

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chemical-resistant footwear

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, or greenhouses. For other uses, including golf courses and other nonagricultural uses, do not enter treated areas without protective clothing until sprays have dried.

GENERAL INFORMATION

APPLAUD® 70DF insect growth regulator is effective against the nymphal stages of whitefly, scales, psylla, mealybugs, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. APPLAUD 70DF insect growth regulator 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 70DF insect growth regulator is not disruptive to beneficial insects and mites.

APPLAUD 70DF insect growth regulator is a contact insecticide, so good spray coverage is necessary. Apply by ground or air in sufficient water volume. Orient nozzles to assure good coverage. Use of higher volume of water will assure better coverage, especially under adverse conditions such as hot, dry weather, and/or a dense canopy. The entire field should be treated. Apply when economic infestations occur based on local information.

APPLAUD 70DF insect growth regulator is not for sale, sale into, distribution, and or use in Nassau and Suffolk counties of New York state.

INSECTS CONTROLLED

Whiteflies: Ash whitefly, Bandedwinged whitefly, Greenhouse whitefly, Silverleaf whitefly, Sweetpotato whitefly

Mealybugs: Citrus mealybug, Comstock mealybug, Gill's mealybug, Grape mealybug, Longtailed mealybug, Mexican mealybug, Obscure mealybug, Striped mealybug, Vine mealybug

Leafhoppers and Planthoppers: Brown planthopper, Cherry leafhopper, Eastern grape leafhopper, Glassy-winged sharpshooter, Potato leafhopper, Variegated leafhopper, Western grape leafhopper, White apple leafhopper

Pear Psylla

Scales:

Soft Scales: Barnacle scale, Black scale, Brown soft scale, Citricola scale, False oleander scale, Hemispherical scale, Indian wax scale and other wax scales, Tessellated scale, White peach scale

Armored Scales: Boisduval scale, Cactus scale, California red scale, Coconut scale, Fern scale, Florida red scale, Oystershell scale, San Jose scale

Margarodid Scale: Cottony cushion scale

RESISTANCE MANAGEMENT

APPLAUD 70DF insect growth regulator is classified by IRAC in Group 16 – chitin biosynthesis inhibitors and is not known to be cross-resistant to other classes of insecticides. However, insect pests are known to develop resistance to products used repeatedly. Because resistance development cannot be predicted, the use of this product should conform to resistance management strategies established for the crop and use area. Such strategies may include rotating with insecticides with different modes of action. Consult your local pest control advisor or extension office for details. If resistance to this product develops in your area, it may not provide adequate control. If you experience difficulty with control, and resistance is a likely cause, consult your local state university horticultural specialist or local agricultural authorities for the best alternative method of control. To preserve the usefulness of APPLAUD 70DF insect growth regulator, do not make more than two consecutive applications. Prior to subsequent applications, use an alternative chemistry with a different mode of action. Always consult your local crop advisor for the most appropriate control decision for your area. Resistance management strategies advise against applying rates lower than those recommended on the label.

For greenhouses: If another insect growth regulator with the same mode of action as a chitin biosynthesis inhibitor (i.e. cyromazine, diflubenzuron, and novaluron) has been used in the greenhouse within 28 days, do not apply TALUS 70DF insect growth regulator as the first whitefly application.

MIXING, LOADING, AND HANDLING INSTRUCTIONS

SPECIFIC MIXING INSTRUCTIONS

APPLAUD 70DF INSECT GROWTH REGULATOR ALONE: Fill spray tank with ¾ of the amount of water needed for the intended application and then turn on agitation. Pour recommended amount of product on the surface of water in the spray tank. Add the balance of the water to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

APPLAUD 70DF INSECT GROWTH REGULATOR TANK MIXTURES: Follow all use directions as listed above under **APPLAUD 70DF INSECT GROWTH REGULATOR ALONE** with the following exception: after the APPLAUD 70DF insect growth regulator is thoroughly mixed and the tank is ¾ full, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, **while maintaining agitation**. If a spray additive is needed, add a liquid fertilizer, surfactant, or crop oil concentrate to the spray tank at this time. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

APPLAUD 70DF INSECT GROWTH REGULATOR TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING: Follow all use directions as listed above under **APPLAUD 70DF INSECT GROWTH REGULATOR ALONE** with the following exception: add the desired number of water-soluble bags to the tank (if allowed by their label instructions) at the same time the APPLAUD 70DF insect growth regulator is added. **Note:** If using products in water soluble packaging, do not tank mix with products that contain boron, chromium, or other micronutrients.

APPLICATION DIRECTIONS

Applications should be made immediately after the spray solution is prepared. Thorough spray coverage is essential for effective control. Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. For best results, apply when pest populations are beginning to build, before reaching economic thresholds. Consult your local agricultural advisor, state cooperative extension service, or regional Nichino America representative for recommendations.

USE RESTRICTIONS

- Do not apply this product through any type of irrigation system.
- Crop Rotational Restrictions:

CROP	PLANTBACK TIMING
All crops registered for use with buprofezin	0 days following application
Leafy vegetables not registered for use with buprofezin	30 days following application
Cereal grains	30 days following application
All other crops	60 days following application

USE PRECAUTIONS

- Apply in a minimum finished spray volume of 5 gallons per acre by air. For gallonage per acre by ground, refer to Application Rate Chart.
- Phytotoxicity may occur in Asian pear varieties, normally limited to applications made prior to petal fall.

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

ACEROLA; ATEMOYA; AVOCADO; BIRIBA; CHERIMOYA; CUSTARD APPLE; FEIJOA; GUAVA; ILAMA; JABOTICABA; PASSION FRUIT; SOURSOP; STARFRUIT; SUGAR APPLE; WAX JAMBU		
Pest	Formulated Product Rate/Acre	Directions for Use
Scales	34.5 oz/acre (2.156 lbs/acre) (1.5 lbs ai/acre)	Limited to Florida, Hawaii, and Puerto Rico <ul style="list-style-type: none"> Apply by ground application using a minimum of 20 gallons of water per acre. Do not make more than 2 applications per growing season. Allow at least 14 days between applications. Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 21 days
Leafhoppers Mealybugs Whiteflies	9.0 to 12.0 oz/acre (0.56 to 0.75 lbs/acre) (0.40 to 0.53 lbs ai/acre)	
BLACK SAPOTE; CANISTEL; MAMEY SAPOTE; MANGO; PAPAYA; SAPODILLA; STAR APPLE		
Leafhoppers Mealybugs Scales Whiteflies	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre) (0.40 to 0.53 lbs ai/acre)	Limited to Florida, Hawaii, and Puerto Rico <ul style="list-style-type: none"> Apply by ground application using a minimum of 20 gallons of water per acre. Do not make more than 5 applications per growing season. Allow at least 14 days between applications. Do not apply more than 45.0 oz (2.8 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 3 days RECOMMENDATIONS <ul style="list-style-type: none"> Mealybugs: Application should be made when early crawler emergence occurs. Scales: Apply at early crawler emergence. Good spray coverage is essential.
ALMONDS and PISTACHIOS		
Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> Apply by ground application using a minimum of 100 gallons of water per acre. Do not make more than 1 application per growing season. Do not apply more than 46.0 oz (2.875 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 60 days

		<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • San Jose scale: Application can be made at dormant or delayed dormant when scale is in the black cap stage, or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence or when scales are at a susceptible early nymphal stage. • Good spray coverage is essential.
<p>APPLES, CRABAPPLE, LOQUAT, MAYHAW, QUINCE</p>		
Leafhoppers	<p>9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre)</p> <p>(0.40 to 0.53 lbs ai/acre)</p>	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 20 gallons of water per acre. For low-volume sprayers, use a minimum of 20 gallons of water per acre. • Do not make more than 1 application per growing season. • Do not apply more than 34.5 oz (2.156 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days
Mealybugs Scales	<p>34.5 oz/acre (2.156 lb/acres)</p> <p>(1.5 lbs ai/acre)</p>	<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence. • Mealybugs: Application should be made from dormant, delayed dormant to petal fall when nymphs are present. Apply in-season at early crawler emergence. • Good spray coverage is essential.
<p>BANANAS</p>		
Leafhoppers Mealybugs Scales Whiteflies	<p>7.0 oz/acre (0.438 lbs/acre)</p> <p>(0.31 lbs ai/acre)</p>	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 15 gallons of water per acre. • Do not make more than 4 applications per growing season. • Allow at least 14 days between applications. • Pre-Harvest Interval (PHI): 1 day <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details. • Good spray coverage is essential. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.

<p>CITRUS FRUITS (CROP GROUP 10) Calamondin; Citrus, citron; Citrus hybrids (including chironja, tangelo, tangor); Clementine; Grapefruit; Kumquat; Lemon; Lime; Mandarin; Orange, sour; Orange, sweet; Pummelo; Satsuma mandarin; Tangerine; White sapote (<i>Casimiroa spp.</i>)</p>		
<p>Black scale California red scale Citricola scale Cottony cushion scale Glassy-winged sharpshooter Mealybugs</p>	<p>34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)</p>	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 750 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 60 days between applications. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 3 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Red scale – Applications should begin at early crawler emergence. • Citricola scale – Applications should be after complete crawler hatch. Spring applications can provide suppression and minimize honeydew accumulation. • Cottony cushion scale – Apply after July 1st for consistent control. • All other pests - Application should be made when early crawler emergence occurs. • Good spray coverage is essential.
<p>CITRUS FRUITS (CROP GROUP 10) - For Florida and Texas Only Calamondin; Citrus, citron; Citrus hybrids (including chironja, tangelo, tangor); Clementine; Grapefruit; Kumquat; Lemon; Lime; Mandarin; Orange, sour; Orange, sweet; Pummelo; Satsuma mandarin; Tangerine; White sapote (<i>Casimiroa spp.</i>)</p>		
<p>Soft scales Armored scales</p>	<p>34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)</p>	<p>Limited to Florida and Texas Only</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 250 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 60 days between applications. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 3 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Thorough coverage is essential for optimum control. • Choice of water volume should be based on tree canopy size and location of the scale insect within the tree canopy. • Applications should be made at the beginning of crawler hatch and emergence.

COFFEE		
Mealybugs Scales	23.0 oz/acre (1.43 lbs/acre) (1.0 lbs ai/acre)	<ul style="list-style-type: none"> Apply by ground application using a minimum of 50 gallons of water per acre. Do not make more than 4 applications per growing season. Allow at least 14 days between applications. Do not apply more than 91.0 oz (5.72 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 0 day <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Treatment should be applied when population level reaches economic threshold. Good spray coverage is essential.
GRAPES		
European fruit lecanium scale	12.0 oz/acre (0.75 lb/acre) (0.53 lbs ai/acre)	<ul style="list-style-type: none"> 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. Do not make more than 2 applications per growing season. Allow at least 14 days between applications. Do not apply more than 24.0 oz (1.5 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 7 days
Leafhoppers Mealybugs	9.0 to 12.0 oz/acre (0.56 to 0.75 lb/acre) (0.40 to 0.53 lbs ai/acre)	<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Leafhoppers: Apply when majority of the population is at the early nymphal stage. Mealybugs: Application should be made when early crawler emergence occurs. Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.
Mealybugs	24.0 oz/acre (1.50 lb/acre) (1.05 lbs ai/acre)	<p>THIS APPLICATION RATE ALLOWED IN CALIFORNIA AND ARIZONA ONLY</p> <ul style="list-style-type: none"> 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. Do not apply more than 24.0 oz (1.5 lbs) per acre per growing season. Pre-Harvest Interval (PHI): 30 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Mealybugs: Application should be made when early crawler emergence occurs. Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.

LONGAN; LYCHEE; PULASAN; RAMBUTAN; SPANISH LIME		
Scales	<p>34.5 oz/acre</p> <p>(2.156 lbs/acre)</p> <p>(1.5 lbs ai/acre)</p>	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 75 gallons per acre spray volume. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 21 days
OLIVES		
Scales	<p>34.5 to 46.0 oz/acre</p> <p>(2.156 to 2.875 lbs/acre)</p> <p>(1.5 to 2.0 lbs ai/acre)</p>	<ul style="list-style-type: none"> • 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. • Do not make more than 2 applications per growing season. • Allow at least 50 days between applications. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 21 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Black scale – Applications should be made after complete crawler emergence from the mature female scale has occurred. • All other scales – Apply at early crawler emergence. • Good spray coverage is essential. Orient nozzles to assure good coverage. Use of a higher volume of water will assure better coverage, especially under adverse conditions, such as hot, dry weather and/or a dense canopy.
PEARS and PEARS, ASIAN		
Mealybugs Pear psylla Scales	<p>34.5 to 46.0 oz/acre</p> <p>(2.156 to 2.875 lbs/acre)</p> <p>(1.5 to 2.0 lbs ai/acre)</p>	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 7 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Pear Psylla: For best results of controlling 1st and 2nd instars, apply pre-bloom or at petal fall. In-season, apply early when smaller pear psylla nymphs are present. For best results, tankmix with an adulticide. • Mealybugs or San Jose scale: Apply pre-bloom or at first crawler emergence. • Other scales: Apply at first crawler emergence. • Good spray coverage is essential. • Phytotoxicity may occur in Asian pear varieties, normally limited to applications made prior to petal fall.

STONE FRUITS (CROP GROUP 12)		
Apricot; Cherry, sweet; Cherry, tart; Nectarine; Peach; Plum; Plum, chickasaw; Plum, damson; Plum, Japanese plumcot; Prune (fresh)		
Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 50 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs.) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Mealybugs: Application should be made when early crawler emergence occurs. • San Jose scale: Application can be made at dormant, delayed dormant or pre-bloom when scale is in the black cap stage, or in-season at early crawler emergence. • Other scales: Apply at early crawler emergence. • Good spray coverage is essential.
POMEGRANATES		
Whiteflies	12.0 to 34.5 oz/acre (0.75 to 2.156 lbs/acre) (0.53 to 1.5 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 50 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 14 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days
Mealybugs Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Brown soft scale: Application can be made at dormant timing targeting the overwintering population or at crawler emergence during the summer. • Mealybugs: Application should be made when early crawler emergence occurs. • San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in season at early crawler emergence. • Whiteflies: Apply at early nymph threshold. • Other scales: Apply at early crawler emergence. • Good spray coverage is essential.

GREENHOUSE TOMATOES		
Leafhoppers Mealybugs Planthoppers	9.0 oz/acre (0.56 lbs/acre) (0.40 lbs ai/acre)	<ul style="list-style-type: none"> For greenhouse tomatoes, apply by ground on 2 acre minimum with 20 gallons of water per acre. Apply no more than 2 applications per growing cycle. Allow at least 5 days between applications. Do not apply more than 18.0 oz (1.12 lbs) per acre per growing cycle. Pre-Harvest Interval (PHI): 1 day <p>RECOMMENDATIONS</p>
Whiteflies	6.0 to 9.0 oz/acre (0.38 to 0.56 lbs/acre) (0.26 to 0.40 lbs ai/acre)	<ul style="list-style-type: none"> Treatment should be applied when population level reaches economic threshold. Consult local and state agricultural authorities for details. Apply in sufficient water to obtain complete coverage of all plant parts. Good coverage is essential. Applications may be made with high volume, low volume or ultra-low volume (thermal and non-thermal foggers, misters, etc.) ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information.
ORNAMENTAL PLANTS		
in greenhouses; lath and shadehouses; nurseries; landscape ornamentals; ground covers; field-and container-grown ornamentals; non-bearing fruit and nut trees and vines in nurseries; Christmas trees		
Leafhoppers Mealybugs Planthoppers	12.0 oz/acre (0.75 lb/acre) (0.53 lbs ai/acre)	<ul style="list-style-type: none"> Make no more than 2 applications per crop per growing season. Do not apply more than 28.0 oz (1.76 lbs) per acre per growing cycle. <p>RECOMMENDATIONS</p>
Scales	14.0 oz/acre (0.88 lb/acre) (0.61 lbs ai/acre)	<ul style="list-style-type: none"> Applications may be made with high volume, low volume or ultra-low volume (thermal and non-thermal foggers, misters, etc.) ground equipment only. Follow the spray equipment manufacturer's directions to determine the amount of spray solution required to obtain thorough coverage. Consult the spray equipment manufacturer's operator's manual, spray nozzle catalogs and/or your crop advisor for more information. Apply the specified dosage as a foliar spray in sufficient water for complete, uniform coverage, including stems and underside of leaves. Spray to the point of runoff. Whiteflies, Leafhoppers or Planthoppers: Make first application as soon as adult insects begin to appear. Mealybugs: Make first application as soon as insect activity is observed. Scales: Make first application when crawlers are emerging. If additional insecticide applications are required for control, use another class of chemistry or a different Insect Growth Regulator (IGR) with a different mode of action before making subsequent applications of buprofezin. Consult local or state agricultural authorities for details concerning economic thresholds for each target pest.
Whiteflies	6.0 oz/acre (0.38 lb/acre) (0.26 lbs ai/acre)	

STORAGE AND DISPOSAL

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

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

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Bulk Container – Plastic Drum:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat the procedure two more times.

Alternatively, for pressure rinsing, pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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 must 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. To the extent consistent with applicable law, all such risks are assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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. To the extent consistent with applicable law, 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: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

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SUPPLEMENTAL LABEL

GROUP 16 INSECTICIDE

Centaur[®] WDG Insect Growth Regulator

EPA Reg. No. 71711-21

For Use on Citrus in Florida and Texas Only

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling and the EPA approved container label must be in the possession of the user at the time of application.

New use directions appear on this supplemental labeling that supersede the Section 3 container label.

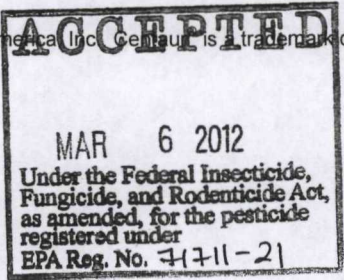
NOTICE: Before using this product, read the First Aid, Precautionary Statements, Conditions of Sale and Warranty, and complete Directions for Use found on the container labeling. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

CITRUS FRUITS (CROP GROUP 10)

Calamondin; Citrus, citron; Citrus hybrids (including chironja, tangelo, tangor); Grapefruit; Kumquat; Lemon; Lime; Mandarin (tangerine); Orange, sour; Orange, sweet; Pummelo; Satsuma mandarin; White sapote (*Casimiroa spp.*)

Pest	Formulated Product/A	Directions for Use
Soft scales Armored scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Limited to Florida and Texas Only • Apply by ground application using a minimum of 250 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 60 days between applications. • Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 3 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Thorough coverage is essential for optimum control. • Choice of water volume should be based on tree canopy size and location of the scale insect within the tree canopy. • Applications should be made at the beginning of crawler hatch and emergence.

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 Nichino America, Inc.
 4550 New Linden Hill Road
 Wilmington, DE 19808
 888-740-7700

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SUPPLEMENTAL LABEL

GROUP 16 INSECTICIDE

Centaur® WDG Insect Growth Regulator

EPA Reg. No. 71711-21

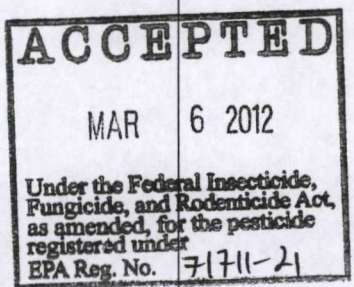
For Use on Pears

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling and the EPA approved container label must be in the possession of the user at the time of application.

New use directions appear on this supplemental labeling that supersede the Section 3 container label.

NOTICE: Before using this product, read the First Aid, Precautionary Statements, Conditions of Sale and Warranty, and complete Directions for Use found on the container labeling. All applicable directions, restrictions, and precautions on the EPA registered label are to be followed.

PEARS AND PEARS, ASIAN		
Pest	Formulated Product Rate/Acre	Directions for Use
Mealybugs Pear psylla Scales	34.5 to 46.0 oz/acre (2.156 to 2.875 lbs/acre) (1.5 to 2.0 lbs ai/acre)	<ul style="list-style-type: none"> • Apply by ground application using a minimum of 80 gallons of water per acre. • Do not make more than 2 applications per growing season. • Allow at least 7 days between applications. • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days
		<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Pear Psylla: For best results of controlling 1st and 2nd instars, apply pre-bloom or at petal fall. In-season, apply early when smaller pear psylla nymphs are present. For best results, tankmix with an adulticide. • Mealybugs or San Jose scale: Apply pre-bloom or at first crawler emergence. • Other scales: Apply at first crawler emergence. • Good spray coverage is essential. • Phytotoxicity may occur in Asian pear varieties, normally limited to applications made prior to petal fall.

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