

71711-20

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

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

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

FEB 2 2012

Subject: Buprofezin 40SC Insect Growth Regulator, EPA Reg. No. 71711-20
Date of Registrant Submission: May 31, 2011
Decision: 449535

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

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".

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

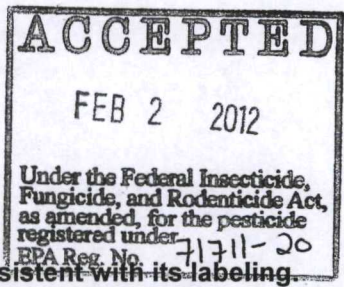
Enclosure: Copy of Label Master Label, and Cucurbit and Cotton Labels Stamped
"Accepted" and "Revised Buprofezin Cucurbit PHI Reduction" Memo

2013

SUPPLEMENTAL LABEL

GROUP 16 INSECTICIDE

Courier® SC Insect Growth Regulator EPA Reg. No. 71711-20



For Use on Cotton

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.

Cotton		
Pest	Formulated Product Rate/Acre (lb ai/Acre)	Directions for Use
Whiteflies	9.0 to 12.5 fl oz/acre (0.25 to 0.35 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use 10 to 50 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 28 days between applications. • Do not apply more than 24.9 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 14 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.

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

30 of 13

SUPPLEMENTAL LABEL

GROUP 16 INSECTICIDE

Courier® SC Insect Growth Regulator

EPA Reg. No. 71711-20

For Use on Cucurbit Vegetables

ACCEPTED

FEB 2 2012

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registration under 71711-20 EPA Reg. No. of the user at the

DIRECTIONS FOR USE

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

The use of adjuvants is prohibited when using the labeled pre-harvest interval of 1-day for cucurbits.

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.

CUCURBIT VEGETABLES (CROP GROUP 9) Cucumbers, Melons (Cantaloupe, Honeydew melons, Watermelons, Muskmelons), Pumpkins, Squash		
Pest	Formulated Product Rate/Acre (lb ai/Acre) fl oz/acre	Directions for Use
Leafhoppers Planthoppers	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	<ul style="list-style-type: none"> For ground application, use a minimum of 20 gallons of water per acre. For aerial application, use a minimum of 5 gallons of water per acre. Do not make more than 2 applications per crop cycle. Allow at least 7 days between applications. Do not apply more than 27.2 fl oz per acre per crop cycle. Do not make more than 4 applications per crop cycle. Pre-Harvest Interval (PHI): 1 day
Whiteflies		<p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> Treatment should be applied when nymphal population level reaches economic threshold. Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.

NICHINO AMERICA

GROUP 16 INSECTICIDE

BUPROFEZIN 40SC Insect Growth Regulator

ACTIVE INGREDIENT:

Buprofezin: 2-*tert*-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazinane-4-one40.00%

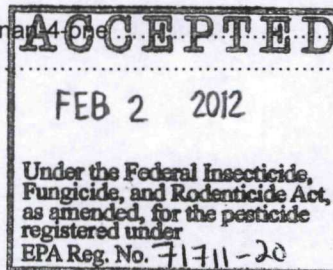
OTHER INGREDIENTS:60.00%

TOTAL:100.00%

Contains 3.6 lbs. buprofezin per U.S. gallon

EPA Reg. No.: 71711-20

EPA Est. No.: 67545-AZ-1



Marketing Brands: Courier® 40SC Insect Growth Regulator, Courier® SC Insect Growth Regulator, Talus® 40SC Insect Growth Regulator, Centaur® SC Insect Growth Regulator

KEEP OUT OF REACH OF CHILDREN WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain to you in detail.)

FIRST AID	
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. • Call a poison control center or doctor for treatment advice.
If on skin	<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.
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.

Active Ingredient Made in China; Formulated and Packaged in USA

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

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING - AVISO

Causes substantial but temporary eye injury. Avoid contact with skin or clothing. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant (such as nitrile or butyl) gloves
- Protective eyewear
- 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 thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

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
- chemical-resistant (such as nitrile or butyl) gloves
- protective eyewear
- shoes plus socks

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

BUPROFEZIN 40SC insect growth regulator is effective against the nymphal stages of whiteflies, scales, mealybugs, pear psylla, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing oviposition of adults, and reducing viability of eggs. BUPROFEZIN 40SC 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.

BUPROFEZIN 40SC insect growth regulator is not disruptive to beneficial insects and mites.

BUPROFEZIN 40SC 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.

BUPROFEZIN 40SC 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

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

Pear psylla

USE RESTRICTIONS

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

CROP/CROP GROUP	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

RESISTANCE MANAGEMENT

BUPROFEZIN 40SC 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 BUPROFEZIN 40SC 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 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 BUPROFEZIN 40SC insect growth regulator as the first whitefly application.

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

Shake well before using. Read and follow all label directions for each tank mix product prior to any tank mixing with BUPROFEZIN 40SC insect growth regulator. This product can be mixed with other registered pesticides for use on labeled crops or sites, in accordance with the most restrictive use directions and precautions. No labeled dose rate should be exceeded. BUPROFEZIN 40SC insect growth regulator cannot be mixed with any product containing a label prohibition against such mixing.

BUPROFEZIN 40SC INSECT GROWTH REGULATOR ALONE: Begin with clean equipment. Fill spray tank with 3/4 of the amount of water needed for the intended application and then turn on agitation. Pour recommended amount of product on the surface of water in the spray tank. Add the balance of the water to the spray tank with agitation running. Keep agitation running during filling and spraying operations. If spraying must be stopped before emptying the sprayer, resume agitation before spraying the remainder of the load.

BUPROFEZIN 40SC INSECT GROWTH REGULATOR TANK MIXTURES: Follow all use directions as listed above under **BUPROFEZIN 40SC INSECT GROWTH REGULATOR ALONE** with the following exception: after BUPROFEZIN 40SC insect growth regulator is thoroughly mixed and the tank is 3/4 full, add the recommended amount of wettable powder, soluble powder, flowable, emulsifiable concentrate, or soluble liquid product, **while maintaining agitation**. Then continue adding water to the tank to achieve the desired level, while maintaining agitation.

BUPROFEZIN 40SC INSECT GROWTH REGULATOR TANK MIXTURES WITH PRODUCTS IN WATER-SOLUBLE PACKAGING: Follow all use directions as listed above under **BUPROFEZIN 40SC 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 BUPROFEZIN 40SC 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.

BUPROFEZIN 40SC insect growth regulator is physically and biologically compatible with many registered pesticides, fertilizers or micronutrients. Contact your supplier for advice when considering mixing BUPROFEZIN 40SC insect growth regulator with other pesticides, fertilizers or micronutrients. If you have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water, as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.

APPLICATION RATE CHART FOR BUPROFEZIN 40SC INSECT GROWTH REGULATOR

HEAD and STEM BRASSICA (Crop Subgroup 5A) Broccoli, Brussels sprouts, Cabbage, Cauliflower, Chinese broccoli, Chinese cabbage (Napa), Chinese mustard cabbage, Cavalo broccoli, Kohlrabi		
Pest	Formulated Product Rate/Acre (lb ai/Acre)	Directions for Use
Leafhoppers Planthoppers Whiteflies	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 7 days between applications.

		<ul style="list-style-type: none"> • Do not apply more than 27.2 fl oz per acre per crop cycle. • Do not make more than 4 applications per year. • Pre-Harvest Interval (PHI): 1 day <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.
COTTON		
Whiteflies	<p>9.0 to 12.5 fl oz/acre</p> <p>(0.25 to 0.35 lb ai/acre)</p>	<ul style="list-style-type: none"> • For ground application, use 10 to 50 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 28 days between applications. • Do not apply more than 24.9 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 14 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.
CUCURBIT VEGETABLES (CROP GROUP 9) Cucumbers, Melons (Cantaloupe, Honeydew melons, Watermelons, Muskmelons), Pumpkins, Squash		
		<ul style="list-style-type: none"> • For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 27.2 fl oz per acre per crop cycle. • Do not make more than 4 applications per year. • Pre-Harvest Interval (PHI): 1 day. • The use of an adjuvant is restricted for use with cucurbits.
Leafhoppers Planthoppers Whiteflies	<p>9.0 to 13.6 fl oz/acre</p> <p>(0.25 to 0.38 lb ai/acre)</p>	<p>RECOMMENDATIONS Treatment should be applied when nymphal population level reaches economic threshold.</p> <ul style="list-style-type: none"> • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.

LEAFY VEGETABLES (CROP GROUP 4)
 Celery, Endive, Head lettuce, Leaf lettuce, Parsley, Spinach

Leafhoppers Planthoppers Whiteflies	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 7 days between applications. • Do not apply more than 27.2 fl oz per acre per crop cycle. • Do not make more than 4 applications per year. • Pre-Harvest Interval (PHI): 7 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.
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SNAP BEANS (Bush beans, Green beans, Snap beans, String beans, Wax beans)

Leafhoppers Planthoppers Whiteflies	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Allow at least 14 days between applications. • Do not apply more than 27.2 fl oz per acre per crop cycle. • Do not make more than 2 applications per crop cycle. • Pre-Harvest Interval (PHI): 14 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.
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LOW-GROWING BERRY (CROP SUBGROUP 13-07G)
 Strawberry, Bearberry, Bilberry, Blueberry (lowbush), Cloudberry, Cranberry, Lingonberry, Muntries, Partridgeberry

Leafhoppers Planthoppers Whiteflies	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use a minimum of 80 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle.
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		<ul style="list-style-type: none"> • Do not apply more than 27.2 fl oz per acre per crop cycle. • Allow at least 10 days between applications. • Pre-Harvest Interval (PHI): 3 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population.
<p>FRUITING VEGETABLES (CROP GROUP 8) Bell pepper, Chili pepper, Cooking pepper, Pimento, Eggplant, Groundcherry, Okra, Pepino, Sweet pepper, Tomatillo Tomato</p>		
Mealybugs	13.6 fl oz/acre (0.38 lb ai/acre)	<ul style="list-style-type: none"> • For ground application, use a minimum of 20 gallons of water per acre. • For aerial application, use a minimum of 5 gallons of water per acre. • Do not make more than 2 applications per crop cycle. • Allow at least 5 days between applications. • Do not apply more than 27.2 fl oz per acre per crop cycle. • Pre-Harvest Interval (PHI): 1 day <p>• For Greenhouse tomatoes, apply by ground on 2 acre minimum with 20 gallons of water per acre.</p> <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • Treatment should be applied when nymphal population level reaches economic threshold. • Good 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. Use the higher application rate and spray volume when treating a rapidly increasing insect population. • For Greenhouse tomatoes, apply in sufficient water to obtain complete coverage of all plant parts. 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.
Leafhoppers Planthoppers Whiteflies	9.0 to 13.6 fl oz/acre (0.25 to 0.38 lb ai/acre)	
<p>ORNAMENTAL PLANTS in greenhouses; lath and shadehouses; nurseries; landscape ornamentals; ground covers; field- and container-grown ornamentals; non-bearing fruit and nut trees in nurseries; Christmas trees</p>		
Leafhoppers Mealybugs Planthoppers	18.0 fl oz/100 gal (0.51 lb ai/100 gal)	<ul style="list-style-type: none"> • Do not make more than 2 applications per year. <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • 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. • Leafhoppers, Planthoppers, Whiteflies: Make first application as soon as adult insects begin to appear. • Mealybugs: Make first application as soon as insect activity is observed.
Scales	21.5 fl oz/100 gal (0.60 lb ai/100 gal)	

Whiteflies	9.0 fl oz/100 gal (0.25 lb ai/100 gal)	<ul style="list-style-type: none"> • 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 a second application of BUPROFEZIN 40SC insect growth regulator. • Consult local or state agricultural authorities for details concerning economic thresholds for each target pest.
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APPLES, CRABAPPLE, LOQUAT, MAYHAW, QUINCE – (Not For Use In California)

Pest	Formulated Product Rate/Acre (lb ai/Acre)	Directions for Use
Leafhoppers	14.2 to 18.8 fl oz/acre (0.40 to 0.53 lb ai/acre)	<ul style="list-style-type: none"> • NOT FOR USE IN CALIFORNIA • Apply by ground application using a minimum of 80 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 53.7 fl oz (1.5 lbs ai) per acre per growing season. • Pre-Harvest Interval (PHI): 14 days <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.
Mealybugs Scales	53.7 fl oz/A (1.5 lbs ai/acre)	<ul style="list-style-type: none"> • 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.

PEARS AND ASIAN PEARS - (Not For Use In California)

Pest	Formulated Product Rate/Acre (lb ai/Acre)	Directions for Use
Mealybugs Pear psylla Scales	53.7 to 71.6 fl oz/acre (1.5 to 2.0 lb ai/acre)	<ul style="list-style-type: none"> • NOT FOR USE IN CALIFORNIA • Apply by ground application using a minimum of 100 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 107.4 fl oz (3.0 lbs ai) 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

		<p>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.</p> <ul style="list-style-type: none"> • 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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STONE FRUIT (CROP GROUP 12) - (Not For Use In California)
 Apricot; Cherry, sweet; Cherry, tart; Nectarine; Peach; Plum; Plum, chickasaw; Plum, damson; Plum, Japanese plumcot; Prune (fresh)

Pest	Formulated Product Rate/Acre (lb ai/Acre) (fl oz/acre)	Directions for Use
Mealybugs Scales	53.7 to 71.6 fl oz/acre (1.5 to 2.0 lb ai/acre)	<ul style="list-style-type: none"> • NOT FOR USE IN CALIFORNIA • 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 107.4 fl oz (3.0 lbs ai) 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

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and 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, if appropriate, or puncture and dispose of 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 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.

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Label Code D-3 030411-8