

71711-37

9/30/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 30, 2014

Ms. Lydia Cox, Ph.D., DABT
Director of Regulatory Affairs
Nichino America, Inc.
4550 New Linden Hill Road, Suite 501
Wilmington, DE 19808-2951

Subject: Label Amendment – Addition of Editing Changes
Product Name: Pyrfluquinazon Insecticide
EPA Registration Number: 71711-37
Application Date: June 4, 2014
Decision Number: 494787

Dear Ms. Cox:

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA. If you have any questions about this label review, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at Rodia.Carmen@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Richard J. Gebken".

Richard Gebken
Product Manager 10
Insecticide Branch
Office of Pesticide Programs
Date: September 30, 2014

Enclosure:
071711-00037 D494787

Amended Master Label Stamped "Accepted," dated September 30, 2014

NICHINO
AMERICA

GROUP un INSECTICIDE

ACCEPTED
09/30/2014
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 71711-37

Pyrifluquinazon Insecticide

**For Indoor Greenhouse Use on Ornamental Plants
Not for residential use sites**

Active Ingredient:

**Pyrifluquinazon 2(1H)-Quinazolinone,
1-acetyl-3,4-dihydro-3-[(3-pyridinylmethyl)amino]-6-[1,2,2,2-tetrafluoro-1-(trifluoromethyl)ethyl]- 20.0%**

Other Ingredients: 80.0%

Total 100.0%

Contains 1.80 lbs. active ingredient per U.S. gallon

EPA Reg No. 71711-37

EPA Est. No. _____

[Alternate brand names: Pyrifluquinazon 20% SC insecticide, Pyrifluquinazon 20SC insecticide, Rycar™ insecticide]

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID	
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 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 a poison control center or doctor. • Do not give anything to an unconscious person.
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), you may call 1-800-348-5832. In case of fire or spills, information may be obtained by calling 1-800-424-9300.	

Net Contents: _____

Formulated and Packaged in U.S.A. for
NICHINO AMERICA, INC.
4550 New Linden Hill Rd.
Wilmington, DE 19808
888-740-7700

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUTION

Harmful if absorbed through skin. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, made of material such as barrier laminate or Viton
- 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 thoroughly before eating, drinking, chewing gum, using tobacco or using the toilet.
- 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 into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Avoid spraying ponds or aquaria containing fish. Do not contaminate water by cleaning of equipment or when disposing of equipment wastewaters 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 requirements specific to your State or Tribe, consult the agency in your state 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 the 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
- Chemical-resistant gloves, made of material such as barrier laminate or Viton
- 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, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

GENERAL INFORMATION

PYRIFLUQUINAZON insecticide is formulated as a suspension concentrate containing 1.80 lbs. of active ingredient per gallon. **PYRIFLUQUINAZON** insecticide works primarily through contact action, by ingestion, and is translaminar. **PYRIFLUQUINAZON** insecticide should be used in a program with other products to provide season long protection. Apply as a spray as directed in the "Application Directions" section of this label.

RESISTANCE MANAGEMENT

PYRIFLUQUINAZON insecticide contains pyrifluquinazon, which has been classified by the Insecticide Resistance Action Committee (IRAC) as "unknown mode of action". Repeated use of the same chemistry has been shown to result in the buildup of resistant strains of insects. Rotate the use of **PYRIFLUQUINAZON** insecticide with alternate mode of action insecticides.

Resistance management strategies recommend that you DO NOT apply rates lower than recommended on the label. For best results, do not make more applications of **PYRIFLUQUINAZON** insecticide than permitted on the label in a single crop cycle. Contact your local extension specialist or certified crop advisor for additional resistance management or IPM recommendations. Also, for more information about Insect Resistance Management (IRM), visit the Insecticide Resistance Action Committee (IRAC) on the web at <http://www.irac-online.org>.

MIXING DIRECTIONS

Shake well before using. Read and follow all label directions for each tankmix product prior to any tank mixing with **PYRIFLUQUINAZON** insecticide. This product can be mixed with other registered pesticides. The most restrictive use directions and precautions must be followed. No labeled dose rate should be exceeded.

PYRIFLUQUINAZON Insecticide Alone: Begin with clean equipment. 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 remaining water volume 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.

PYRIFLUQUINAZON Insecticide Tank Mixtures: Begin with clean equipment. Fill spray tank with ¾ 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 ¾ amount of water. 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 (including PYRIFLUQUINAZON insecticide)
- 5) emulsifiable concentrates
- 6) adjuvants and/or oils
- 7) remaining amount of water to achieve the desired level

PYRIFLUQUINAZON insecticide is physically and biologically compatible with many registered pesticides, fertilizers or micronutrients. Contact your supplier for advice when considering mixing **PYRIFLUQUINAZON** insecticide 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 DIRECTIONS

Indoor Greenhouse Use on Ornamental Crops

PYRIFLUQUINAZON insecticide is recommended for use in indoor greenhouses on several ornamental plants. The use directions of this product are based on the results of product testing programs on a wide variety of ornamental plants. However, it is impossible to test this product on all species and cultivars. The phytotoxicity of **PYRIFLUQUINAZON** insecticide has been assessed on a wide variety of common ornamental plants with no phytotoxic effects. However, not all plant species and their varieties and cultivars have been tested with possible tankmix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions also can influence crop tolerance and may not match those under which testing has been conducted. Therefore, before using **PYRIFLUQUINAZON** insecticide, test the product on a sample of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

PYRIFLUQUINAZON insecticide works primarily through contact oral and translaminar activity, so good spray coverage is necessary for control of listed insects on the label. Applications should be made immediately after the spray solution is prepared. Under severe insect pressure, use the maximum rates and the shorter spray interval as specified on the label. Dense foliage or excessive growth will often prevent adequate coverage; adjust spray volumes accordingly. Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Treat plants when pests are immature or at a susceptible stage and populations are building, before crop damage occurs.

Applications may be made with high or low volume spray equipment that provides thorough coverage of the plant. Apply with properly calibrated spray equipment. A wetting agent or other spray adjuvant, approved for use on the crop, may be added to spray solutions according to the manufacturer's use instructions to achieve optimum control.

USE LIMITATIONS AND PRECAUTIONS FOR INDOOR GREENHOUSE USE ON ORNAMENTAL CROPS

- Do not apply this product through any type of irrigation system.
- Do not apply this product as a smoke or aerosol.
- Do not harvest cut flowers for 48 hours after spraying.
- Do not compost any discarded plant materials that have been treated with this product.
- Do not apply this product to plants used for food or animal feed.
- Do not apply to fruit trees and vines that will bear harvestable fruit within 12 months.

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CONTROLLING PESTICIDE RUNOFF IN GREENHOUSES

Do not allow pesticide spray solution to run off outside of the application area. Do not use in greenhouses that discharge irrigation runoff to surface water drains. If applied in an area with a non-permeable floor and a floor drainage system, excess application spray or irrigation runoff must be collected and subjected to secondary wastewater treatment.

List of Plant Species Tested for Tolerance to PYRIFLUQUINAZON Insecticide¹

Common Name	Scientific Name
Angelonia	<i>Angelonia sp.</i>
Balsam	<i>Impatiens spp.</i>
Begonia	<i>Begonia spp.</i>
Chrysanthemum	<i>Chrysanthemum sp.</i>
Coleus	<i>Solenostemon scutellarioides</i>
Cosmos	<i>Cosmos sp.</i>
Dahlia	<i>Dahlia sp.</i>
Daisy, Transvaal	<i>Gerbera sp.</i>
Dianthus	<i>Dianthus sp.</i>
Euonymus	<i>Euonymus sp.</i>
Geranium, Zonal	<i>Pelargonium X hortorum</i>
Gladiolus	<i>Gladiolus sp.</i>
Holly	<i>Ilex sp.</i>
Holly, Blue	<i>Ilex X meserveae</i>
Holly, Chinese	<i>Ilex cornuta</i>
Impatiens	<i>Impatiens balsamina</i>
Impatiens, New Guinea	<i>Impatiens hawkeri</i>
Madwort	<i>Alyssum sp.</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Maple	<i>Maple sp.</i>
Marigolds	<i>Tagetes spp.</i>
Nandina	<i>Nandina sp.</i>
New Guinea Impatiens	Impatiens New Guinea Hybrid
Pansy	<i>Viola sp.</i>
Petunia	<i>Petunia spp.</i>
Pine	<i>Pinus sp.</i>
Pittosporum	<i>Pittosporum sp.</i>
Privet	<i>Ligustrum sp.</i>
Privet, New Mexican	<i>Forestiera neomexicana</i>
Rose	<i>Rosa sp.</i>
Snapdragon	<i>Antirrhinum sp.</i>
Verbena	<i>Verbena sp.</i>
Vervain	<i>Verbena spp.</i>
Wax Myrtle	<i>Myrica cerifera</i>
Zinnia	<i>Zinnia spp.</i>

¹ Local conditions can influence crop tolerance and may not match those under which these species were tested. Before using **PYRIFLUQUINAZON** insecticide, test the product on a small sample of the crop to be treated.

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APPLICATION RATE CHART FOR PYRIFLUQUINAZON INSECTICIDE

GREENHOUSE ORNAMENTAL PLANTS			
Pests	Dilution Rate FL OZ/100 Gallons	Dilution Rate mL/Gallon	Use Directions
Whiteflies	1.6 to 3.2 fl oz	0.47 to 0.95 mL	<ul style="list-style-type: none">• Apply no more than 10 gallons of spray solution per 1,000 sq ft per application.• Do not apply more than 2 applications per crop cycle.• Do not apply more than 12.8 fl oz (378 mL) per crop cycle.• Allow at least 10 days between applications.• Use in sufficient volume to obtain uniform plant coverage. 100 gallons of finished spray solution will typically cover 20,000 sq ft of greenhouse.• Do not harvest cut flowers for 48 hours after spraying.
Aphids Leafhoppers Chilli Thrips	2.4 to 3.2 fl oz	0.71 to 0.95 mL	
Mealybugs	6.4 fl oz	1.89 mL	

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container, and keep tightly closed when not in use. Store 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 plastic container (less than 5 gallons)

Nonrefillable container. Do not reuse or refill this container. Clean container 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 other procedures approved by state and local authorities.

Nonrefillable plastic container (greater than 5 gallons):

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. 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 it 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 this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Nonrefillable metal container (Greater than 5 gallons)

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. 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 it 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 this procedure two more times. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or a 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Refillable plastic container

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to point of sale or offer for recycling if available or

reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

Refillable metal container

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Return to point of sale or offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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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.

Protected by Patent Number 645535

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