1711-21

08 08 2013



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

# AVG 8 2013

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Ms. Marie Maks Nichino America, Inc. 4550 New Linden Hull Road Wilmington, DE 19808

Subject: Label Notification(s) for Pesticide Registration PR Notice 2007-4

Dear Ms. Maks:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 11, 2013 for:

# EPA Registration Number: 71711-21 Applaud 70DF

The Registration Division (RD) has conducted a review of this request for applicability Under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our Records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact Melody Banks on 703 305-5413 or via E-mail at banks.melody@epa.gov.

Sincerely

Mark Suarez Product Manager Insecticide Branch Registration Division (7504P)

|  | on reverse before comple   | etion form  |   | . OMB No. 2070-0060  | Print Form   |
|--|--|---|---|--|--|
|  | Environmenta   | United States<br>al Protection Age<br>alington, DC 20460  |   | Registration Amendment   | OPP Identifier Number  |
| · · · · · · · · · · · · · · · · · · ·  |  | Application for F   | Pesticide - Section                                 | n I  |  |
| 1. Company/Product Nur<br>71711-21   | nber   | _   | 2. EPA Product Manager<br>Mark Suarez               | -  | oposed Classification  |
| 4. Company/Product (Na<br>Applaud 70DF   | me)  |   | <b>РМ#</b><br>13                                    |  | None<br>CCCC<br>CCCC<br>CCCC   |
| Nichino America, Inc<br>4550 New Linden Hil<br>Wilmington, DE 1980   | ll Rd.   | ode)<br>D   |   | milar or identical in co<br>cccccc<br>cc   | <b>DATE</b> Section 3(c)(3)<br>mposition and labeling<br>8.20132                       |
|  | <u> </u>   | Sec   | tion - II   |  | 0 C C C  |
| Notification - Exp<br>Explanation: Use add<br>Notification of label c<br>requirements of EPA's   | litional page(s) if necessa<br>hange per PR Notice 20<br>s regulations at 40 CFR   | <b>Iry. (For section I and Se</b><br>007-4. This notification   | is consistent with the g<br>6.144, 156.146, and 156 | below.<br>uidance in PR Notice 2   |  |
|  |  | Sect  | tion - III  | ·····  |  |
| 1. Material This Product<br>Child-Resistant Packagir<br>Yes*   |  | Water   | Soluble Packaging<br>Yas<br>No                      | 2. Type of Container<br>Metal<br>Plastic<br>Glass<br>Paper   | <u></u>  |
| No Certification must be submitted   | f "Yes"<br>Unit Packaging wgt  | No. per If "Yes<br>t. container Packag  |   |  | specify)   |
| • Certification must<br>be submitted   | f Unit Packaging wgt   |   | ge wgt container                                    |  | 2ns  |
| Certification must<br>be submitted 3. Location of Net Conte  | Unit Packaging wgt   | t. container Packag   | ge wgt container                                    | Location of Label Direction  | 2ns  |
| Certification must<br>be submitted  Label  | Unit Packaging wgt   | t. container Packag<br>4. Size(s) Retail Contain<br>Lithograph<br>Paper glued<br>Stencifed  | ge wgt container                                    | Location of Label Direction  | 2ns  |
| Certification must<br>be submitted  Label  Label  Manner in Which Labe   | Unit Packaging wgt<br>onte Information<br>Container<br>el is Affixed to Product  | t. container Packag<br>4. Size(s) Retail Contain<br>4. Size(s) Retail Contain<br>Lithograph<br>Paper glued<br>Stenciled<br>Sect   | ge wgt container                                    | Other (S   | ons<br>npanying product  |
| Certification must<br>be submitted  Label  Label  Label  1. Contact Point (Comp<br>Name  | Unit Packaging wgt<br>onte Information<br>Container<br>el is Affixed to Product  | t. container Packag<br>4. Size(s) Retail Contain<br>4. Size(s) Retail Contain<br>Lithograph<br>Paper glued<br>Stenciled<br>Sect<br>for identification of indivi   | pe wgt container                                    | Other (S<br>Ocation of Label Direction<br>On Label<br>On Labeling accom  | application.)  |
| Certification must<br>be submitted  Label  Label  Label  Contact Point (Comp<br>Name Julie Kozlowski  I certify that the s I acknowledge tha<br>both under applice | Unit Packaging wgt<br>onts Information<br>Container<br>el is Affixed to Product<br>lete items directly below<br>tatements I have made o<br>at any knowingly false or               | 4. Size(s) Retail Contain<br>4. Size(s) Retail Contain<br>Lithograph<br>Paper glued<br>Stenciled<br>Secti<br>for identification of indivi<br>Title<br>Regulate<br>Certification<br>n this form and all attach | ge wgt container                                    | Cocation of Label Direction<br>On Label<br>On Label<br>On Labeling accom<br>ecessary, to process this<br>Telephon<br>302-636 | application.)  |
| Certification must<br>be submitted  Label  Label  Label  Contact Point /Comp Name Julie Kozlowski  I certify that the s I acknowledge tha                          | Unit Packaging wgt<br>Inte Information<br>Container<br>el is Affixed to Product<br>lete items directly below<br>tatements I have made of<br>at any knowingly false or<br>able law. | t. container Packag<br>4. Size(s) Retail Contain<br>Paper glued<br>Stenciled<br>Secti<br>for identification of indivi<br>Certification<br>n this form and all attach<br>misleading statement ma<br>3. Title   | pe wgt container                                    | Cocation of Label Direction<br>On Label<br>On Label<br>On Labeling accom<br>ecessary, to process this<br>Telephon<br>302-636 | epplication.)<br>e No. (Include Area Code)<br>-9001<br>6. Date Application<br>Received |

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

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# SENT VIA FEDEX April 12, 2013

| Mr. Mark Suarez (Product Manager 13)  |                         | د د د د<br>د د د د د                  |
|---|-------------------------|---------------------------------------|
| Registration Division-H7505C  |                         | (())<br>()<br>()                      |
| U.S. Environmental Agency   |                         | cccc                                  |
| One Potomac Yard  |                         | , , , , , , , , , , , , , , , , , , , |
| 2777 S. Crystal Drive<br>Arlington, VA 22202-4501   | 1)))<br>(()<br>()<br>() | , , , , , , , , , , , , , , , , , , , |
|   | 00000<br>0000<br>00000  | ςς (<br>ζ                             |
| RE: Submission of Notification to amend storage and dispose<br>per PR Notice 2007-4         | ll section              | <b>c c c c c c c c c c</b>            |
| Nichino America, Inc. (NAI) Applaud 70DF <sup>®</sup> Insect Gro<br>(EPA Reg. No. 71711-21) | wth Regulator           | с с с<br>с с с с<br>с с с с           |

Dear Mr. Suarez:

Nichino America, Inc. requests the Agency's review of the revised label to update the storage and disposal section. We believe that these particular changes for the subject product qualify per PR Notice 2007-4.

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Attached are the following:

- EPA application form, 8570-1
- One (1) copy of the highlighted label (D-162 041113)
- One (1) copy of EPA stamped label approved 12/7/12

If you have any questions, you are welcome to call me at (302) 636-9001 ext. 227, or email me at <u>jkozlowski@nichino.net</u>. Thank you.

Sincerely,

li Galand

Julie Kozlowski Regulatory Affairs Assistant, Regulatory Affairs Enclosures

GROUP 16

INSECTICIDE



| APPLAUD <sup>®</sup> 70DF Insect Gro  | wth Regulator | 3 7 7 7<br>3 3 7 3 3<br>3 3 3 3 3<br>3 3 3 3 3<br>3 3 3 3                                   |
|---|---------------|---|
| ACTIVE INGREDIENT:<br>Buprofezin: 2- <i>tert</i> -butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazi<br>OTHER INGREDIENTS: |               |   |
| TOTAL<br>Contains 0.70 lbs. buprofezin per pound of product   | NOTIFICATION  | 100.00%   |
| EPA Reg. No. 71711-21<br>EPA Est. No. 67545-AZ-1  | AUG - 8 2013  | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 |

**Marketing Brands:** Applaud<sup>®</sup> Insect Growth Regulator, Centaur<sup>®</sup> WDG Insect Growth Regulator, and Talus<sup>®</sup> 70DF Insect Growth Regulator

# KEEP OUT OF REACH OF CHILDREN : CAUTION

|                           | FIRST AID  |
|---------------------------|--|
| lf inhaled                | <ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>  |
| lf on skin or<br>clothing | <ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>  |
| lf in eyes                | <ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>  |
| If swallowed              | <ul> <li>Call poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul> |
|                           | 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: \_\_\_\_\_

Formulated and Packaged in USA

## Nichino America, Inc. 4550 New Linden Hill Road, Suite 501

Wilmington, DE 19808 888-740-7700 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

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### 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 concourses 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 whitefils, scales, psylla, mealybugs, planthoppers, and leafhoppers by inhibiting chitin biosynthesis, suppressing a sing 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 feedings 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**

<u>Whiteflies</u>: 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

#### <u>Pear Psylla</u>

#### Scales:

<u>Soft Scales</u>: Barnacle scale, Black scale, Brown soft scale, Citricola scale, European fruit lecanium scale, False oleander scale, Frosted scale, Hemispherical scale, Indian wax scale and other wax scales, Tessellated scale, White peach scale

<u>Armored Scales</u>: Boisduval scale, Cactus scale, California red scale, Coconut scale, Fern scale, Florida red scale, Oystershell scale, San Jose scale

Margarodid Scale: Cottony cushion scale

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

| CROP   | PLANTBACK TIMING                    | 0,000    |
|--|-------------------------------------|----------|
| All crops registered for use with buprofezin | 0 days following application        | <u> </u> |
| Cereal grains                                | 30 days following application       | 0000     |
| All other crops                              | 60 days following appliອີລິນິຣ໌ກິ ຊ | с с      |

#### **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 priof to petal fall.

#### **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.

#### **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**

**APPLAUD 70DF INSECT GROWTH REGULATOR ALONE:** Fill spray tank with <sup>3</sup>⁄<sub>4</sub> 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 <sup>3</sup>/<sub>4</sub> 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-sol@blec 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.

#### SPRAY DRIFT REDUCTION MANAGEMENT

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of c many equipment and weather related factors determine the potential for spray drift. The applicator  $\{s_{e,c}, c_{e,c}, c_{e,c$ 

#### Importance of Droplet Size:

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

#### **Ground Applications:**

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

#### **Aerial Applications:**

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

#### Wind Speed Restrictions:

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

#### **Restrictions During Temperature Inversions:**

Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to

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

#### APPLICATION RATE CHART FOR

#### APPLAUD 70DF INSECT GROWTH REGULATOR

| Pest        | Rate/Acre               | SOP; STARFRUIT; SUGAR APPLE; WAX JAMBU   |
|-------------|-------------------------|--|
| Scales      | 34.5 oz/acre            | Limited to Florida, Hawaii, and Puerto Rico  |
|             | (2.156 lbs/acre)        | <ul> <li>Apply by ground application using a minimum of 20 gallons of water per<br/>acre.</li> </ul> |
|             |                         | Do not make more than 2 applications per growing season.   |
|             | (1.5 lbs ai/acre)       | Allow at least 14 days between applications.   |
|             |                         | • Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season.                              |
| Leafhoppers | 9.0 to 12.0 oz/acre     | Pre-Harvest Interval (PHI): 21 days  |
| Mealybugs   |                         |  |
| Whiteflies  | (0.56 to 0.75 lbs/acre) | RECOMMENDATIONS  |
|             | (0.40 to 0.53 lbs       | • <b>Mealybugs:</b> Application should be made when early crawler emergence occurs.                  |
|             | ai/acre)                | Scales: Apply at early crawler emergence.  |
|             |                         | Good spray coverage is essential.  |

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| Pest                 | Rate/Acre                     | Notes and Use Restrictions  |
|----------------------|-------------------------------|---|
| Leafhoppers          | 9.0 to 12.0 oz/acre           | Limited to Florida, Hawaii, and Puerto Rico                                   |
| Mealybugs            | (0.56 to 0.75 lb/coro)        | • Apply by ground application using a minimum of 20 gallons of water pe acre. |
| Scales<br>Whiteflies | (0.56 to 0.75 lb/acre)        | Do not make more than 5 applications per growing season.                      |
|                      | (0.40 to 0.53 lbs<br>ai/acre) | 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   |
|                      |                               | Mealybugs: Application should be made when early crawle emergence occurs.     |
|                      |                               | Scales: Apply at early crawler emergence.                                     |
|                      |                               | Good spray coverage is essential.   |

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| BANANAS  |   |   |
|--|---|---|
| Pest   | Rate/Acre   | Notes and Use Restrictions  |
| Leafhoppers<br>Mealybugs<br>Scales<br>Whiteflies | 7.0 oz/acre<br>(0.438 lbs/acre)<br>(0.31 lbs ai/acre) | <ul> <li>Apply by ground application using a minimum of 15 gallons of water per acre.</li> <li>Do not make more than 4 applications per growing season.</li> <li>Allow at least 14 days between applications.</li> <li>Do not apply more than 27.0 oz (1.71 lbs) per acre per growing season</li> <li>Pre-Harvest Interval (PHI): 1 day</li> </ul>          |
|  |   | RECOMMENDATIONS   |
|  | · · · · · · · · · · · · · · · · · · ·                 | <ul> <li>Treatment should be applied when population level reaches economic threshold. Consult local or State agricultural authorities for details.</li> <li>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.</li> </ul> |

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Applaud70DF D-162 041113 Page 7 of 15

# **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

| Pest   | Rate/Acre  | Notes and Use Restrictions   |
|--|--|--|
| Pest<br>Black scale<br>California red<br>scale<br>Citricola scale<br>Cottony<br>cushion<br>scale<br>Glassy-winged<br>sharpshooter<br>Mealybugs | Rate/Acre         34.5 to 46.0 oz/acre         (2.156 to 2.875<br>lbs/acre)         (1.5 to 2.0 lbs ai/acre) | <ul> <li>Apply by ground application using a minimum of 750 gallons of water per acre.</li> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 60 days between applications.</li> <li>Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 3 days</li> <li>RECOMMENDATIONS</li> <li>Red scale – Applications should begin at early crawler emergence.</li> <li>Citricola scale – Applications should be after complete crawler hatch. Spring applications can provide suppression and minimize honeydew accumulation.</li> <li>Cottony cushion scale – Apply after July 1<sup>st</sup> for consistent control.</li> </ul> |
|  |  |  |

| Pests             | Rate/Acre  | Notes and Use Restrictions   |      |
|-------------------|--|--|------|
| Soft scales       | 34.5 to 46.0 oz/acre                                     | Limited to Florida and Texas Only  |      |
| Armored<br>scales | (2.156 to 2.875<br>lbs/acre)<br>(1.5 to 2.0 lbs ai/acre) | <ul> <li>Apply by ground application using a minimum of 250 gallons of per acre.</li> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 60 days between applications.</li> <li>Do not apply more than 92.0 oz (5.75 lbs) per acre per growin</li> <li>Pre-Harvest Interval (PHI): 3 days</li> </ul> |      |
|                   |  | <ul> <li>RECOMMENDATIONS</li> <li>Thorough coverage is essential for optimum control.</li> <li>Choice of water volume should be based on tree canopy size location of the scale insect within the tree canopy.</li> <li>Applications should be made at the beginning of crawler batch emergence.</li> </ul>                            | çççç |
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| Pests               | Rate/Acre                       | Notes and Use Restrictions   |
|---------------------|---------------------------------|--|
| Mealybugs<br>Scales | 23.0 oz/acre<br>(1.43 lbs/acre) | <ul> <li>Apply by ground application using a minimum of 50 gallons of water per acre.</li> <li>Do not make more than 4 applications per growing season.</li> <li>Allow at least 14 days between applications.</li> </ul> |
|                     | (1.0 lbs ai/acre)               | <ul> <li>Do not apply more than 91.0 oz (5.72 lbs) per acre per growing season</li> <li>Pre-Harvest Interval (PHI): 0 day</li> </ul>   |
|                     |                                 | RECOMMENDATIONS  |
|                     |                                 | • Treatment should be applied when population level reaches economic threshold.  |
|                     |                                 | <ul> <li>Good spray coverage is essential.</li> </ul>  |

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| GRAPES                        |                            |   |
|-------------------------------|----------------------------|---|
| Pests                         | Rate/Acre                  | Notes and Use Restrictions  |
| European<br>fruit<br>lecanium | 12.0 oz/acre               | <ul> <li>Apply by ground using a minimum of 50 gallons of water per acre.<br/>Water volumes should be adjusted based on the size of the grape<br/>canopy. Higher water volumes should be used for dense canopies.</li> <li>Do not make more than 2 applications per growing season.</li> </ul>  |
| scale                         | (0.75 lb/acre)             | <ul> <li>Allow at least 14 days between applications.</li> <li>Do not apply more than 24.0 oz (1.5 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 7 days</li> </ul>   |
|                               | (0.53 lbs ai/acre)         | RECOMMENDATIONS   |
|                               |                            | • Leafhoppers: Apply when majority of the population is at the early nymphal stage.   |
| Leafhoppers                   | 9.0 to 12.0 oz/acre        | • Mealybugs: Application should be made when early crawler  |
| Mealybugs                     | (0.56 to 0.75 lb/acre)     | emergence occurs. Good spray coverage is essential. Orient nozzles to<br>assure good coverage. Use of a higher volume of water will assure<br>better coverage, especially under adverse conditions, such as hot, dry<br>weather and/or a dense canopy.  |
|                               | (0.40 to 0.53 lbs ai/acre) |   |
| Mealybugs                     | 24.0 oz/acre               | THIS APPLICATION RATE ALLOWED IN CALIFORNIA AND ARIZONA<br>ONLY   |
|                               | (1.50 lb/acre)             | <ul> <li>Apply by ground using a minimum of 50 gallons of water per across to a construction of the grape.</li> <li>Water volumes should be adjusted based on the size of the grape.</li> <li>a construction of the grape.</li> <li>The state of the state of the grape.</li> <li>The state of the state of</li></ul> |
|                               | (1.05 lbs ai/acre)         | Pre-Harvest Interval (PHI): 30 days   |
|                               |                            | RECOMMENDATIONS   |
|                               |                            | • Mealybugs: Application should be made when early brawler control emergence occurs.  |
|                               |                            | • Good spray coverage is essential. Orient nozzles to assure goo(iccccc<br>coverage. Use of a higher volume of water will assure better coverage,<br>especially under adverse conditions, such as hot, dry weather and/or a<br>dense canopy.  |

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| LONGAN; LYCHEE; PULASAN; RAMBUTAN; SPANISH LIME |                   |   |
|---|-------------------|---|
| Pests   | Rate/Acre         | Notes and Use Restrictions  |
| Scales  | 34.5 oz/acre      | <ul> <li>Apply by ground application using a minimum of 75 gallons per acre<br/>spray volume.</li> </ul>  |
|   | (2.156 lbs/acre)  | <ul> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 14 days between applications.</li> <li>Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season.</li> </ul> |
|   | (1.5 lbs ai/acre) | Pre-Harvest Interval (PHI): 21 days   |

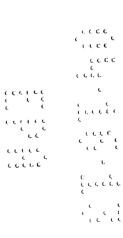
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| OLIVES |  |   |
|--------|--|---|
| Pests  | Rate/Acre  | Notes and Use Restrictions  |
| Scales | 34.5 to 46.0 oz/acre<br>(2.156 to 2.875<br>lbs/acre)<br>(1.5 to 2.0 lbs ai/acre) | <ul> <li>Apply by ground application using 110 to 500 gallons per acre spray volume. Apply in sufficient water volume to provide adequate coverage for tree size. Thorough coverage is critical for adequate control.</li> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 50 days between applications.</li> <li>Do not apply more than 92.0 oz (5.75 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 21 days</li> </ul> |
|        |  | RECOMMENDATIONS   |
|        |  | <ul> <li>Black scale – Applications should be made after complete crawler emergence from the mature female scale has occurred.</li> <li>All other scales – Apply at early crawler emergence.</li> <li>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.</li> </ul>   |



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| PEARS and PEARS, ASIAN |                              |   |
|------------------------|------------------------------|---|
| Pests                  | Rate/Acre                    | Notes and Use Restrictions  |
| Mealybugs              | 34.5 to 46.0 oz/acre         | Apply by ground application using a minimum of 80 gallons of water per  |
| Pear psylla            |                              | acre.   |
| Scales                 | (2.156 to 2.875<br>Ibs/acre) | <ul> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 7 days between applications.</li> <li>Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 14 days</li> </ul>   |
|                        |                              | • Fierhaivest interval (Fill). 14 days  |
|                        | (1.5 to 2.0 lbs ai/acre)     | RECOMMENDATIONS   |
|                        |                              | <ul> <li>Pear Psylla: For best results of controlling 1<sup>st</sup> and 2<sup>nd</sup> instars, apply pre-<br/>bloom or at petal fall. In-season, apply early when smaller pear psylla<br/>nymphs are present. For best results, tankmix with an adulticide.</li> <li>Mealybugs or San Jose scale: Apply pre-bloom or at first crawler<br/>emergence.</li> </ul> |
|                        |                              | Other scales: Apply at first crawler emergence.   |
|                        |                              | Good spray coverage is essential.   |
|                        |                              | <ul> <li>Phytotoxicity may occur in Asian Pear varieties, normally limited to<br/>applications made prior to petal fall.</li> </ul>   |

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| USE RESTRICTIONS <ul> <li>Apply by ground using a minimum of 100 gallons of water per acre.</li> </ul>   |
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| <ul> <li>Do not make more than 2 applications per growing season.</li> <li>Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season.</li> <li>Do not apply more than 3.0 lbs active ingredient per acre per growing season.</li> <li>Allow at least 14 days between applications.</li> <li>Pre-Harvest Interval (PHI): 14 days</li> <li>RECOMMENDATIONS</li> <li>Mealybugs: Application should be made at the beginning of crawler emergence. APPLAUD is most effective on early developmental stage of mealybugs.</li> <li>Scales: Application should be made at the beginning of crawler concert.</li> </ul> |
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# POME FRUITS (CROP GROUP 11-10) – EXCEPT PEARS and PEARS, ASIAN (see Application Rate Chart for PEARS and PEARS, ASIAN)

Apple, Azarole, Crabapple, Loquat, Mayhaw, Medlar, Quince, Quince (Chinese), Quince (Japanese), Tejocote, Cultivars, varieties and/or hybrids of these.

| Pests               | Rate/Acre                             | Notes and Use Restrictions   |
|---------------------|---------------------------------------|--|
| Leafhoppers         | 9.0 to 12.0 oz/acre                   | • 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.   |
|                     | (0.56 to 0.75 lb/acre)                | <ul> <li>Do not make more than 1 application per growing season.</li> <li>Do not apply more than 34.5 oz (2.156 lbs) per acre per growing</li> </ul>   |
|                     | (0.40 to 0.53 lbs<br>ai/acre)         | <ul> <li>Pre-Harvest Interval (PHI): 14 days</li> </ul>  |
| Mealybugs<br>Scales | 34.5 oz/acre                          | RECOMMENDATIONS  |
|                     | (2.156 lb/acres)<br>(1.5 lbs ai/acre) | <ul> <li>San Jose scale: Application can be made at dormant, delayed dormant, pre-bloom or in-season at early crawler emergence.</li> <li>Other scales: Apply at early crawler emergence.</li> <li>Mealybugs: Application should be made from dormant, delayed dormant to petal fall when nymphs are present. Apply in-season at early crawler emergence.</li> </ul> |
|                     |                                       | <ul><li>crawler emergence.</li><li>Good spray coverage is essential.</li></ul>   |

| Pests        | Rate/Acre                    | Notes and Use Restrictions  |
|--------------|------------------------------|---|
| Whiteflies . | 12.0 to 34.5 oz/acre         | Apply by ground application using a minimum of 50 gallons of water pe acre.   |
|              | (0.75 to 2.156 lbs/acre)     | <ul> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 14 days between applications.</li> <li>Do not each more than 60.0 or (4.2 lbc) per core per growing season.</li> </ul>  |
|              | (0.53 to 1.5 lbs ai/acre)    | <ul> <li>Do not apply more than 69.0 oz (4.3 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 14 days</li> </ul>  |
| Mealybugs    | 34.5 to 46.0 oz/acre         | RECOMMENDATIONS   |
| Scales       | (2.156 to 2.875<br>lbs/acre) | <ul> <li>Brown soft scale: Application can be made at dormant timing targeting the overwintering population or at crawler emergence during the summer.</li> <li>Mealybugs: Application should be made when early crawler encoder encoder emergence occurs</li> </ul>  |
|              | (1.5 to 2.0 lbs ai/acre)     | <ul> <li>emergence occurs.</li> <li>San Jose scale: Application can be made at dotmant, delayed common dotmant, pre-bloom or in season at early crawler emergence.</li> <li>Whiteflies: Apply at early nymph threshold.</li> <li>Other scales: Apply at early crawler emergence common dots and the scale of the scale of</li></ul> |

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# STONE FRUITS (CROP GROUP 12)

Apricot; Cherry, sweet; Cherry, tart; Nectarine; Peach; Plum; Plum, chickasaw; Plum, damson; Plum, Japanese plumcot; Prune (fresh)

| Pests               | Rate/Acre   | Notes and Use Restrictions   |
|---------------------|---|--|
| Mealybugs<br>Scales | 34.5 oz/acre<br>(2.156 lbs/acre)<br>1.5 lbs ai/acre | <ul> <li>Apply by ground application using a minimum of 50 gallons of water per acre.</li> <li>Do not make more than 2 applications per growing season.</li> <li>Allow at least 14 days between applications.</li> <li>Do not apply more than 69.0 oz (4.3 lbs.) per acre per growing season.</li> </ul>   |
|                     |   | <ul> <li>Do not apply more than 3.0 lbs active ingredient per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 14 days</li> <li>RECOMMENDATIONS</li> </ul>  |
|                     |   | <ul> <li>Mealybugs: Application should be made when early crawler emergence occurs.</li> <li>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.</li> <li>Other scales: Apply at early crawler emergence.</li> <li>Good spray coverage is essential.</li> </ul> |

# TREE NUTS (CROP GROUP 14) AND PISTACHIOS

Almond; Beechnut; Brazil nut; Butternut; Cashew; Chestnut; Chinquapin; Filbert; Hickory nut; Macadamia nut; Pecan; Walnut (black and English) and Pistachio

| Pests               | Rate/Acre  | Notes and Use Restrictions  |
|---------------------|--|---|
| Mealybugs<br>Scales | 34.5 to 46.0 oz/acre<br>(2.156 to 2.875<br>lbs/acre) | <ul> <li>Apply by ground application using a minimum of 100 gallons of water per acre.</li> <li>Do not make more than 1 application per growing season.</li> <li>Do not apply more than 46.0 oz (2.875 lbs) per acre per growing season.</li> <li>Pre-Harvest Interval (PHI): 60 days</li> </ul>    |
|                     | (1.5 to 2.0 lbs ai/acre)                             | RECOMMENDATIONS   |
|                     |  | <ul> <li>Mealybugs: Application should be made when early crawler concerns.</li> <li>San Jose scale: Application can be made at dormant or delayed concerns.</li> <li>San Jose scale: Application can be made at dormant or delayed concerns.</li> <li>Gond spray coverage is essential.</li> </ul> |
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| GREENHOUSE TOMATOES                      |   |   |
|--|---|---|
| Pests                                    | Rate/Acre   | Notes and Use Restrictions  |
| Leafhoppers<br>Mealybugs<br>Planthoppers | 9.0 oz/acre<br>(0.56 lbs/acre)<br>(0.40 lbs ai/acre)  | <ul> <li>For greenhouse tomatoes, apply by ground on 2 acre minimum with 20 gallons of water per acre.</li> <li>Apply no more than 2 applications per growing cycle.</li> <li>Allow at least 5 days between applications.</li> <li>Do not apply more than 18.0 oz (1.12 lbs) per acre per growing cycle.</li> <li>Pre-Harvest Interval (PHI): 1 day</li> </ul>  |
|  |   | <ul> <li>RECOMMENDATIONS</li> <li>Treatment should be applied when population level reaches economic threshold. Consult local and state agricultural authorities for details.</li> <li>Apply in sufficient water to obtain applied equations of all plant parts.</li> </ul>   |
| Whiteflies                               | 6.0 to 9.0 oz/acre                                    | <ul> <li>Apply in sufficient water to obtain complete coverage of all plant parts.<br/>Good coverage is essential.</li> <li>Applications may be made with high volume, low volume or ultra-low</li> </ul>   |
|  | (0.38 to 0.56 lbs/acre)<br>(0.26 to 0.40 lbs ai/acre) | • Applications may be made with high volume, low volume of ultra-low<br>volume (thermal and non-thermal foggers, misters, etc.) ground<br>equipment only. Follow the spray equipment manufacturer's directions<br>to determine the amount of spray solution required to obtain thorough<br>coverage. Consult the spray equipment manufacturer's operator's<br>manual, spray nozzle catalogs and/or your crop advisor for more |
|  | ,   | information.  |

#### **ORNAMENTAL PLANTS**

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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

| Pests                    | Rate/Acre          | Notes and Use Restrictions  |
|--------------------------|--------------------|---|
| Leafhoppers<br>Mealybugs | 12.0 oz/acre       | <ul> <li>Make no more than 2 applications per crop per growing season.</li> <li>Do not apply more than 28.0 oz (1.76 lbs) per acre per growing cycle.</li> </ul>  |
| Planthoppers             | (0.75 lb/acre)     | <ul> <li>RECOMMENDATIONS</li> <li>Applications may be made with high volume, low volume or ultra-low</li> </ul>   |
|                          | (0.53 lbs ai/acre) | volume (thermal and non-thermal foggers, misters, etc.) ground<br>equipment only. Follow the spray equipment manufacturer's directions<br>to determine the amount of spray solution required to obtain thorough<br>coverage. Consult the spray equipment manufacturer's operator's $c_{\rm c}$  |
| Scales                   | 14.0 oz/acre       | manual, spray nozzle catalogs and/or your crop advisor for more information.  |
|                          | (0.88 lb/acre)     | <ul> <li>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.</li> <li>Whiteflies, Leafhoppers or Planthoppers: Make first application as a second statement of the second</li></ul> |
|                          | (0.61 lbs ai/acre) | <ul> <li>soon as adult insects begin to appear.</li> <li>Mealybugs: Make first application as soon as insects activity is constrained.</li> </ul>   |
| Whiteflies               | 6.0 oz/acre        | <ul> <li>Scales: Make first application when crawlers are emerging.</li> <li>If additional insecticide applications are required for control, use another</li> </ul>  |
|                          | (0.38 lb/acre)     | class of chemistry or a different Insect Growth Regulator (IGR) with a different mode of action before making subsequent applications of buprofezin.  |
|                          | (0.26 lbs ai/acre) | <ul> <li>Consult local or state agricultural authorities for details concerning<br/>economic thresholds for each target pest.</li> </ul>  |

#### STORAGE AND DISPOSAL

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

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

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

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. 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.

For nonrefillable flexible containers (i.e. bags): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available.

#### 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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