

71711-40

8/14/2012

1/18



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D C 20460

OFFICE OF
CHEMICAL SAFETY
AND POLLUTION PREVENTION

NOTIFICATION

AUG 14 2012

Ms Marie Maks
Nichino America Inc
4550 New Linden Hill Rd Ste 501
Wilmington DE 19808

Subject Notification of storage and disposal language change
EPA Registration Number 71711 40
Decision 468253

Dear Ms Maks

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration (PRN) 98 10 dated July 27 2012 for the abovementioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98 10 and finds that the actions requested fall within the scope of PRN 98 10. The label submitted with the application has been stamped Notification and will be placed in our records.

If you have any questions regarding this letter please contact Hulkower at (703) 603 0683

Sincerely

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

Enclosures Copy of Label Stamped Notification

2/18



United States
Environmental Protection Agency
Washington DC 20460

Registration

OPP Identifier Number

Amendment

Other

X

Application for Pesticide Section I

1 Company/Product Number

71711 19

2 EPA Product Manager

Mark Suarez

3 Proposed Classification

4 Company/Product (Name)

NAI 2399 2 5 EC Miticide/Insecticide

PM#

13

X

None

Restricted

5 Name and Address of Applicant (Include Zip Code)

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

☐ Check if this is a new address

6 Expedited Review In accordance with FIFRA Section 3(c)(3)
(b)(I) my product is similar or identical in composition and labeling
to
EPA Reg No

Product Name

Section II

☐ Amendment Explain below☐ Resubmission in response to Agency letter dated _____☐ Notification Explain below☐ Final printed labels in response to

Agency letter dated _____

☐ Me Too Application☒ Other Explain below

Explanation 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 Section 1001 to willfully make any false statements to the 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 Attachments two copies of label identified as D 125 072512 with one copy highlighted letter M A Maks to M Suarez dated July 27 2012

Section III

1 Material This Product Will Be Packaged In

Child Resistant Packaging

☐ Yes
☒ No

Unit Packaging

☐ Yes
☒ No

Water Soluble Packaging

☐ Yes
☒ No

2 Type of Container

☐ Metal
☒ Plastic
☐ Glass
☐ Paper
☐ Other (Specify) HDPE lined bags

* Certification must
be submitted

If Yes No per
Unit Packaging wgt container

If Yes No per
Package wgt container

3 Location of Net Contents Information

☒ Label ☐ Container

4 Size(s) Retail Container

2 5 gallon mini bulk

5 Location of Label Direction

☐ On Label
☒ On Labeling accompanying product

6 Manner in Which Label is Affixed to Product

☐ Lithograph
☒ Paper glued
☐ Stenciled

☐ Other adhesive backed label _____

Section IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)

Name

Marie A Maks

Title

Senior Manager Regulatory Affairs

Telephone No (Include Area Code)

(302) 636 9001 Ext 203

Certification

I certify that the statements I have made on this form and all attachments thereto are true accurate and complete
I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or
both under applicable law

2 Signature

Marie A. Maks

3 Title

Senior Manager Regulatory Affairs

4 Typed Name

Marie A Maks

5 Date

July 27, 2012

6 Date Application Received

(Stamped)

NICHINO AMERICA

July 27 2012

Mr Mark Suarez (Product Manager 13)
Office of Pesticide Programs (7504 C)
Registration Division (H7505C)
U S Environmental Protection Agency
2777 S Crystal Drive
Arlington VA 22202

RE Submission of Notification Per PR Notice 2007 4
Nichino America Inc NAI 2399 2 5 EC Miticide/Insecticide
(EPA Reg No 71711-40)

Dear Mr Suarez

Nichino America Inc submits herein an application for a revised package label to reflect production of NAI 2399 2 in mini-bulk refillable container We believe this qualifies as a notification per PR Notice 98 10 and 200 7 4 This is the same label approved by the EPA on July 18 2012 with the only change in the storage and disposal section to reflect the package size

Attached are the following

- Completed EPA application Form
- ~~906-1~~ (2) copies of the label identified as D 125 072512
- One copy of label with changes highlighted

If you have any questions you are welcome to call me at (302) 636 9001 extension 203 or email at mmaks@nichino.net Thank you

Sincerely



Marie A Maks
Senior Manager Regulatory Affairs
Nichino America Inc

4/18

GROUP 21A INSECTICIDE

NAI-2399-2[®] 5EC miticide/insecticide

ACTIVE INGREDIENT

Fenpyroximate *tert* butyl(E) α (1 3 dimethyl 5 phenoxy)pyrazol 4 ylmethyleneaminoxyl
p toluate

5 0%

OTHER INGREDIENTS

95 0%

TOTAL

100 0%

Contains 0 4 lb active ingredient per U S gallon

Contains petroleum distillates

EPA Reg No 71711 40

EPA Est No

Marketing Brands FujiMite[®] II Portal[®] XLO

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 it to you in detail)

FIRST AID	
If in eyes	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 swallowed	Immediately call a poison control center or doctor Do not induce vomiting unless told to do so by a poison control center or doctor Do not give any liquid to the person Do not give anything by mouth to an unconscious person
If on skin or clothing	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 inhaled	Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible Call a poison control center or doctor for further 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 Contains petroleum distillates Vomiting may cause aspiration pneumonia	

NET CONTENTS

Formulated and Packaged in U S A for
NICHINO AMERICA INC
4550 New Linden Hill Road
Wilmington DE 19808
1 888 740 7700

NOTIFICATION
AUG 14 2012

5/18

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
WARNING - AVISO

May be fatal if inhaled Causes substantial but temporary eye injury Harmful if swallowed or absorbed through the skin Do not get in eyes or on clothing Do not breathe spray mist Avoid contact with skin eyes or clothing Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below If you want more options follow the instructions for Category B F or G on an EPA chemical resistance category selection chart

Applicators and other handlers must wear

- Long sleeved shirt and long pants
- Chemical resistant gloves (such as barrier laminate butyl rubber nitrile rubber or viton)
- Protective eyewear (such as safety glasses goggles or face shield)
- Shoes plus socks

A respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC 23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC 14G) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N R P or HE prefilter

Follow the 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 When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170 240(d)(4 6)] the handler PPE requirements may be reduced or modified as specified in the WPS

User Safety Recommendations

Users should

- Wash hands thoroughly with soap and water after handling and 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
- Discard clothing and personal protective equipment that cannot be reused including clothing and other absorbent materials that have been drenched or thoroughly contaminated with this product's concentrate
- Wash clothing and personal protective equipment (including both the inside and outside of gloves) before each day of reuse according to manufacturer's directions or if no such directions in detergent and hot water Keep and wash PPE separately from other laundry

ENVIRONMENTAL HAZARDS

This pesticide is very highly toxic to fish and aquatic invertebrates 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 Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas Do not contaminate water when cleaning equipment or disposing of equipment washwaters

This chemical can contaminate surface water through spray applications Under some conditions it may also have a high potential for runoff into surface water after application These include poorly drained or wet soils with readily visible slopes toward adjacent surface waters frequently flooded areas areas

6/18

overlaying extremely shallow ground water areas with in field canals or ditches that drain to surface water areas not separated from adjacent surface waters with vegetated filter strips and areas over laying tile drainage systems that drain to surface water

ENDANGERED SPECIES RESTRICTIONS

This product may pose a hazard to endangered aquatic species. Leave a 75 foot untreated buffer between treatment area and fish bearing waters. For citrus in Florida with aerial applications do not apply within 150 feet of any aquatic area. Follow all use directions.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame

Minimum Honey Bee Toxicity

Applications to all crops may be made at any time. Fenpyroximate is practically nontoxic to bees and wasps when used according to this label.

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 worn over short sleeved shirt and short pants
- Socks
- Chemical resistant footwear
- Protective eyewear (such as safety glasses, goggles, or face shield)
- Chemical resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, or viton)

GENERAL INFORMATION

NAI 2399 2 5EC miticide/insecticide is used for the control of leafhoppers, mealybugs, mites, psylla, psyllids, and whiteflies. **NAI 2399 2 5EC miticide/insecticide** stops mite feeding immediately after application. **NAI 2399 2 5EC miticide/insecticide** controls all motile stages of mites by inhibiting cellular respiration in the mitochondrion of cells which results in rapid cessation of all biological activities including feeding and reproduction. Mortality of mites can be observed within 3-7 days after intoxication.

NAI 2399 2 5EC miticide/insecticide works primarily through contact action. **so thorough spray coverage is necessary.** Mix with sufficient water and apply as a foliar spray to obtain uniform coverage. Dense foliage or excessive growth will often prevent adequate coverage. adjust spray volumes accordingly. Treat plants when pests are immature or at a susceptible stage and populations are building before crop damage occurs.

7/18

Target Species	
Apple rust mite (suppression only)	Pacific spider mite
Asian citrus psyllid	Pear psylla
Avocado Brown mite	Pear rust mite
Banks grass mite	Pecan leaf scorch mite
Broad mite	Persea mite
Carmine mite	Potato leafhopper
Citrus bud mite	Powdery Mildew (suppression only)
Citrus leafminer (suppression only)	Six spotted mite
Citrus red mite	Strawberry spider mite
Citrus rust mite	Texas citrus mite
Citrus thrips (suppression only)	Tomato (Potato) psyllid
Cyclamen mite	Tomato russet mite
European red mite	Two spotted spider mite
Glassy winged sharpshooter (suppression only)	Variegated leafhopper
Grape leafhopper	White apple leafhopper
McDaniel mite	Whiteflies
Mealybug species	Willamette spider mite
Mint bud mite	

APPLICATION DIRECTIONS

- Applications should be made immediately after the spray solution is prepared
Apply with properly calibrated spray equipment
Apply by ground or air using the recommended water spray volume found in the Directions for Use section of this label
- For aerial equipment use larger droplet size (greater than 200 microns)
- Thorough spray coverage is essential for mite and insect control
- 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 further information

USE OF ADJUVANTS

When thorough coverage is a concern it is recommended that a spray adjuvant be used to maximize uniformity of coverage and performance of NAI 2399 2 5EC Use a non ionic activator type wetting spreading or penetrating adjuvant or horticultural spray oil adjuvant Do not use a dormant oil or binder or sticker type adjuvant Non ionic adjuvants (NIS) should contain at least 75% surfactant Crop oil concentrates (COC) methylated seed or vegetable oils (MSO) organosilicone products (OS) or blends of these adjuvants should contain at least 15% emulsifier/surfactant Check compatibility of any adjuvant used with NAI 2399 2 5EC before using Follow the Directions for Use on each adjuvant product label for rates of use and use restrictions

APPLICATION RESTRICTIONS

- Use by air is limited to cotton and citrus in Florida and Texas
- Do not apply within 75 feet of fish bearing waters
- For aerial applications to citrus in the state of Florida do not apply within 150 feet of all aquatic areas
- Do not plant rotational crops other than those listed on this label for 30 days following the last application of this product
Do not apply through any type of irrigation system
- Do not apply by Alternate Row Middle (ARM) spray method

RESISTANCE MANAGEMENT

Repeated use of the same chemistry has been shown to result in the buildup of resistant strains of mites or other insects. Do not use **NAI 2399 2 5EC miticide/insecticide** in successive miticide applications. Rotate the use of **NAI 2399 2 5EC miticide/insecticide** with alternate mode of action insecticides.

Miticides must be rotated with alternate products **for resistance management. Do not use products with the same mode of action [METI 2 inhibitor/IRAC Group 21A] in consecutive applications.**

Consult your local crop advisor for the most appropriate alternative products. Resistance management strategies recommend that you DO NOT apply rates lower than recommended on the label.

MIXING DIRECTIONS

NAI 2399 2 5EC miticide/insecticide Alone Shake well before using. 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 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.

NAI 2399 2 5EC miticide/insecticide Tank Mixtures Shake well before using. Read and follow all label directions for each tank mix product prior to any tank mixing with **NAI 2399 2 5EC miticide/insecticide**. 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. Follow all use directions as listed above under **NAI 2399 2 5EC miticide/insecticide Alone** with the following exception: after the **NAI 2399 2 5EC miticide/insecticide** is thoroughly mixed and the tank is $\frac{1}{4}$ 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.

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.

SPRAY DRIFT MANAGEMENT

Avoid spray drift to all other crops and nontarget areas. Do not apply when weather conditions may cause drift. Do not allow this product to drift onto nontarget areas. Drift may result in illegal residues or injury to adjacent crops and vegetation. To avoid spray drift, DO NOT apply aerially when wind speed is greater than 10 mph or during periods of temperature inversions. Use of larger droplet size will also reduce spray drift.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR

The interaction of equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

Droplet size, boom height, and wind speed are the primary factors determining drift. The specific application conditions required for the use of this product are described below.

Controlling Droplet Size – General Techniques

Volume

Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure

Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE A HIGHER CAPACITY NOZZLE INSTEAD OF INCREASING PRESSURE.**

Nozzle Type

Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Controlling Droplet Size – Aircraft**Number of Nozzles**

Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.

Nozzle Orientation

Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.

Nozzle Type

Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Height and Length – Ground and Aircraft

Boom Height (ground) Setting the boom at the lowest labeled height (if specified) which provides uniform coverage reduces the exposure of droplets to evaporation and wind. For ground equipment, the boom should remain level with the crop and have minimal bounce.

Boom Height (aircraft) Application more than 10 feet above the canopy increases the potential for spray drift.

Boom Length (aircraft) The minimum boom length should not exceed $\frac{3}{4}$ of the wing length. Using shorter booms decreases drift potential. For helicopters, the minimum boom length should not exceed $\frac{9}{10}$ of the rotary blade to prevent droplets from entering the rotor vortices.

Wind

Drift potential is lowest between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given wind speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **AVOID GUSTY OR WINDLESS CONDITIONS.** **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. This cloud can move in unpredictable directions due to the light and variable winds common during inversions. Temperature inversions are characterized by 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

10/18

indicated by ground fog however if fog is not present inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e g residential areas bodies of water known habitat for threatened or endangered species nontarget crops) is minimal (e g when wind is blowing away from the sensitive areas)

Shielded Sprayers

Shielding the boom or individual nozzles can reduce the effects of wind However it is the responsibility of the applicator to verify that the shields are preventing drift and not interfering with the uniform deposition of the product

Air Assisted (Air Blast) Field Crop Sprayers

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream Some may reduce the potential for drift but if a sprayer is unsuitable for the application and/or set up improperly high drift potential can result It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application is configured properly and that drift is not occurring

Note Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration Consult the application equipment section of this label to determine if use of an air assisted sprayer is recommended

Air Assisted (Air Blast) Tree and Vine Sprayers

Air assisted tree and vine sprayers carry droplets into the canopy of trees and vines via a radially or laterally directed air stream These sprayers are not suitable for applying herbicides In addition to the general drift management practices already described the following specific practices will further reduce the potential for drift

- Adjust the deflectors and aiming devices so that spray is only directed into the canopy
- Block off upward pointed nozzles when there is no overhanging canopy
- Use only enough air volume to penetrate the canopy and provide good coverage
- Do not allow spray to go beyond the edge of the cultivated area Spray the outside row only from outside the planting

APPLICATION RATE CHART FOR NAI 2399 2 5EC MITICIDE/INSECTICIDE

MELONS (Crop Subgroup 9A)

muskmelon including hybrids and/or varieties of *Cucumis melo* (including true cantaloupe cantaloupe casaba Santa Claus melon crenshaw melon honeydew melon honey balls Persian melon golden pershaw melon mango melon pineapple melon snake melon) citron melon and watermelon including hybrids and/or varieties of (*Citrullus* spp)

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Whiteflies	2 0 pints	USE RESTRICTIONS <ul style="list-style-type: none"> • Apply by ground application using a minimum of 20 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply by air • Do not apply more than 4 0 pints per acre per crop cycle • Do not make more than 2 applications per crop cycle • Preharvest Interval (PHI) 3 days

11/18

LOW GROWING BERRY (Crop Subgroup 13 07G)

bearberry bilberry blueberry lowbush cloudberry cranberry lingonberry muntries
partridgeberry strawberry cultivars varieties and/or hybrids of these

Pest	Rate/Acre	Use Directions
Mites (see Target Species) Whiteflies	1 0 to 2 0 pints	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground application using a minimum of 25 gallons of water per acre • Do not apply by air • Do not apply through any type of irrigation system • Do not apply more than 4 0 pints per acre per crop cycle • Do not make more than 2 applications per crop cycle • Allow 14 days between applications • Preharvest Interval (PHI) 1 day

**WEST OF THE MISSISSIPPI RIVER
NOTE**

- Temporary pinking of immature green berries may be observed after a NAI 2399 2 5EC application on certain strawberry varieties This effect is transient and does not affect fruit sizing color or quality
- Avoid puddling of spray solution on plastic mulch as this can potentially result in underside scarring of fruit in direct contact with the plastic

CITRUS FRUITS (Crop Group 10)

calamondin citron citrus citron citrus hybrids (includes chironja) grapefruit kumquat lemon
lime mandarin (tangerine) orange sour orange sweet pummelo satsuma mandarin tangelo
tangor white sapote (casimiroa spp)

Pest	Rate/Acre	Use Directions
Asian citrus psyllid ¹ Citrus rust mite	4 0 pints	<p>USE RESTRICTIONS</p> <p>All geographies</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 100 gallons of water per acre For full size trees use a minimum of 200 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply by air except in Florida and Texas • In Florida and Texas apply by air using a minimum of 10 gallons of water per acre • In Florida for citrus aerial applications do not apply within 150 feet of all aquatic areas • Do not apply more than 4 0 pints per acre per growing season • Do not make more than 2 applications per growing season • Allow 14 days between applications • Preharvest Interval (PHI) 14 days • Do not apply to citrus nurseries or citrus in greenhouses • Do not apply through any type of irrigation system
Citrus thrips (suppression only) Citrus leafminer (suppression only) Leafhoppers Mealybugs Other Mites (see Target Species)	2 0 to 4 0 pints	

12/18

		<p>West of the Mississippi River</p> <ul style="list-style-type: none"> • Do not apply more than 8 0 pints per acre per growing season • Do not apply by air except in Texas
<p>¹For best results use for control of adults and nymphs present at time of application when newly expanding foliage flush is present</p>		

COTTON		
Pest	Rate/Acre	Use Directions
Mites (see Target Species)	Early season¹ (when cotton is less than 10 inches in height) 0 4 to 1 0 pints	USE RESTRICTIONS <ul style="list-style-type: none">• Apply by ground using a minimum of 10 gallons of water per acre or by air using a minimum of 3 gallons of water per acre As canopy density increases use of higher water volume will assure better coverage• Do not apply more than 2 0 pints per acre per growing season• Do not make more than 2 applications per growing season• Preharvest Interval (PHI) 14 days• Do not apply through any type of irrigation system
	Mid season (when cotton is more than 10 inches in height) 1 0 pint by ground 1 0 to 2 0 pints by air	
	Whiteflies	

¹For early season use when cotton is less than 10 inches in height NAI 2399 2 5EC Miticide/insecticide may also be applied as a directed spray using ground spray equipment

FRUITING VEGETABLES (Crop Group 8) (excluding cucurbits) bell pepper chili pepper cooking pepper eggplant groundcherry okra pepino pimento sweet pepper tomatillo tomato		
Pest	Rate/Acre	Use Directions
<p>Mites (see Target Species) (Tomato) Potato Psyllid Whiteflies</p>	2 0 pints	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 20 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply more than 4 0 pints per acre per crop cycle • Do not make more than 2 applications per crop cycle • Preharvest Interval (PHI) 1 day

GREENHOUSE TOMATOES		
Pest	Rate/Acre	Use Directions
Mites (see Target Species) (Tomato) Potato Psyllid Whiteflies	2.0 pints	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> Do not use products with the same mode of action in consecutive applications Apply by ground using a minimum of 100 gallons of water per acre Do not apply through any type of irrigation system Do not apply more than 4.0 pints per acre per crop cycle Do not make more than 2 applications per growing season Do not make more than 4 applications per year Allow 14 days between applications Preharvest Interval (PHI) 1 day <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> 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.

GRAPES		
Pest	Rate/ Acre	Use Directions
Mites (see Target Species) Mealybugs Powdery Mildew (suppression)	2.0 pints	USE RESTRICTIONS <ul style="list-style-type: none">• Apply by ground using a minimum of 50 gallons of water per acre• For vines with a heavy canopy or in high pressure situations higher water volumes are recommended. If lower water volume amounts are used tractor speed must be reduced to ensure complete coverage• Do not apply through any type of irrigation system• Do not apply by air• Do not apply more than 2.0 pints per acre per growing season• Do not make more than 2 applications per growing season• Preharvest Interval (PHI) 14 days
Willamette spider mite	1.5 to 2.0 pints	
Leafhoppers ¹	1.0 to 2.0 pints	
¹ Use higher rate for dense foliage. Best control of leafhoppers is achieved by applications when majority of the population is in an immature development stage.		

HOPS		
Pest	Rate/ Acre	Use Directions
Mites (see Target Species)	2 0 to 3 0 pints	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 100 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply by air • Do not apply more than 3 0 pints of product per acre per growing season • Do not apply more than 2 applications per season • Allow 14 days between applications • Preharvest Interval (PHI) 15 days <p>RECOMMENDATIONS</p> <ul style="list-style-type: none"> • For best results apply before mite populations exceed 5 mites per leaf

NOTE

Leaf yellowing may occur when NAI 2399 2 5EC miticide/insecticide is combined with spray oil in excess of 1% of the spray volume. If this symptom occurs, it is usually more pronounced in newly expanding leaves. This symptom may occur in plants under stress and is worsened by certain conditions including the following:

- High Temperatures (air temperatures exceeding 90 F at the time of application or within a few days after application)
- Wet soil conditions and high humidity (rainy, misty, or foggy weather within a few days after application)
- Storm damage (including hail and wind)

MINT (peppermint spearmint)		
Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1 0 to 2 0 pints	<p>USE RESTRICTIONS</p> <p>Apply by ground using a minimum of 25 gallons of water per acre</p> <ul style="list-style-type: none"> • Do not apply by air • Do not apply through any type of irrigation system • Do not apply more than 4 0 pints per acre per growing season • Do not make more than 2 applications per growing season • Allow 7 days between applications • Preharvest Interval (PHI) 1 day

NONBEARING DECIDUOUS FRUIT NUT TREES AND VINES

Pest	Rate/Acre	Use Directions
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<p>Leafhoppers Mealybugs Mites (see Target Species)</p>	<p>1 0 to 2 0 pints</p>	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 75 gallons of water per acre • Do not apply to citrus nurseries or citrus in greenhouses • Do not apply through any type of irrigation system • Do not apply more than 2 0 pints per acre per growing season • Do not make more than 2 applications per growing season • Allow 14 days between applications • Do not harvest edible crops for 12 months following application
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NONBEARING DECIDUOUS FRUIT NUT TREES AND VINES		
Pest	Rate/Acre	Use Directions
<p>Leafhoppers Mealybugs Mites (see Target Species)</p>	<p>2 0 pints</p>	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 75 gallons of water per acre • Do not apply to citrus nurseries or citrus in greenhouses • Do not apply through any type of irrigation system • Do not apply more than 2 0 pints per acre per growing season • Do not make more than 1 application per growing season • Do not harvest edible crops for 12 months following application

ORNAMENTALS			
	<p>Leafhoppers Mealybugs Mites (see Target Species)</p>	<p>1 0 to 2 0 pints</p>	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 50 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply more than 2 0 pints per acre per growing season • Allow 14 days between applications • Do not apply to citrus nurseries or citrus in greenhouses

POME FRUITS (Crop Group 11)		
Apple crabapple loquat mayhaw medlar pear quince		
Pest	Rate/Acre	Use Directions
<p>Leafhoppers Mealybugs Mites</p>	<p>1 0 pint</p>	<p>USE RESTRICTIONS</p> <ul style="list-style-type: none"> • Apply by ground using a minimum of 100 gallons of water per acre

16/18

(see Target Species)		<ul style="list-style-type: none"> Do not apply through any type of irrigation system Do not apply by Alternate Row Middle (ARM) spray method Do not apply by air Do not apply more than 2 0 pints per acre per growing season Do not make more than 2 applications per growing season Preharvest Interval (PHI) 14 days spray method
Leafhoppers Mealybugs Mites (see Target Species) Pear psylla	2 0 pints	USE RESTRICTIONS <ul style="list-style-type: none"> Apply by ground using a minimum of 100 gallons of water per acre Do not apply through any type of irrigation system Do not apply by Alternate Row Middle (ARM) spray method Do not apply by air Do not apply more than 2 0 pints per acre per growing season Do not make more than 1 application per growing season Preharvest Interval (PHI) 14 days

ALMONDS AND PISTACHIOS (West of the Mississippi River)		
Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1 5 to 4 0 pints	USE RESTRICTIONS WEST OF THE MISSISSIPPI RIVER <ul style="list-style-type: none"> Apply by ground using a minimum of 100 gallons of water per acre Do not apply through any type of irrigation system Do not apply by air Do not apply more than 8 0 pints per acre per growing season Do not make more than 2 applications per growing season Allow 14 days between applications Preharvest Interval (PHI) 14 days

TREE NUTS (Crop Group 14) (West of the Mississippi River) (excluding almonds and pistachios) Beech nut Brazil nut butternut cashew chestnut chinquapin filbert (hazelnut) hickory nut macadamia nut pecan walnut black and English		
Pest	Rate/Acre	Use Directions
Mites (see Target Species)	1 5 to 4 0 pints	USE RESTRICTIONS WEST OF THE MISSISSIPPI RIVER

17/18

		<ul style="list-style-type: none"> • Apply by ground using a minimum of 100 gallons of water per acre • Do not apply through any type of irrigation system • Do not apply by air • Do not apply more than 40 pints per acre per growing season • Do not make more than 2 applications per growing season • Allow 14 days between applications • Preharvest Interval (PHI) 14 days
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TREE NUTS (Crop Group 14) (East of the Mississippi River)

Almond beech nut Brazil nut butternut cashew chestnut chinquapin filbert (hazelnut) hickory nut macadamia nut pecan pistachios walnut black and English

Pest	Rate/Acre	Use Directions
Mites (see Target Species)	20 pints	<p>USE RESTRICTIONS EAST OF MISSISSIPPI RIVER</p> <p>Apply by ground using a minimum of 100 gallons of water per acre Do not apply through any type of irrigation system</p> <ul style="list-style-type: none"> • Do not apply by air • Do not apply more than 20 pints per acre per growing season • Do not make more than 1 application per growing season • Preharvest Interval (PHI) 14 days

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE 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 DISPOSAL

(Non refillable container equal to or less than 5 gallons)

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 or local authorities by burning If burned stay out of smoke

(Refillable container greater than 5 gallons)

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 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

Then offer for recycling if available 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

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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