12/10/2012





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

DEC 1 0 2012

Matthew Granahan Nufarm Americas Inc 150 Harvester Drive Suite 200 Burr Ridge IL 60527

Subject Amendment to correct conversion chart for linear application

EPA Registration No 228 528

Primary Brand Name Nuprid 4F Insecticide

Decision No 472454

Submission Date November 21, 2012

Dear Mr Granahan

The label referred to above submitted under FIFRA as amended is <u>acceptable</u> Please submit one final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions please contact Gene Benbow at (703) 347 0235 or via email at <u>benbow gene@epa gov</u>

Sincerely

Venus Eagle

Product Manager 01

Insecticide Rodenticide Branch Registration Division (7505P)

Note This Master label contains 2 Sub-labels which bear directions for use in Commercial Agriculture and in Nursery Greenhouse and Landscape Ornamentals

NUPRID® 4F INSECTICIDE

SUB LABEL A COMMERCIAL AGRICULTURE SUB LABEL B NURSERY GREENHOUSE and LANDSCAPE ORNAMENTALS

ACTIVE INGREDIENT

Imidacloprid 1 [(6 Chloro 3 pyridinyl)methyl] N nitro 2 imidazolidinimine OTHER INGREDIENTS

40 4%

596%

TOTAL

100 0%

EPA REG NO 228 528 EPA EST NO

MANUFACTURED FOR **NUFARM AMERICAS INC** 150 HARVESTER DRIVE **BURR RIDGE IL 60527** 800-455 2000



ACCEPTED

DEC 1 0 2012

Under the Federal Insecticide Funcicide and Rodenticide Act, as arounded, for the pesticide Registered under EPA Reg No



NUPRID® 4F INSECTICIDE

[alternate brand names]

NUPRID® 4F MAX Insecticide

A SYSTEMIC AND FOLIAR INSECTICIDE FOR USE ON LISTED FIELD CROPS including COTTON TOBACCO POTATO SOYBEANS and PEANUTS IN CITRUS TREE NUT and FRUIT ORCHARDS ON FIELD and GREENHOUSE VEGETABLES ON BERRY BUSH and VINE CROPS and ON OTHER LISTED CROPS

ACTIVE INGREDIENT

Imidacloprid 1 [(6 Chloro 3 pyridinyl)methyl] N nitro 2 imidazolidinimine

40 4%

OTHER INGREDIENTS

596%

TOTAL 100 0%

Contains 4 pounds of imidacloprid per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill Leak Fire or Exposure Call CHEMTREC (800) 424 9300 For Medical Emergencies Only Call (877) 325 1840

EPA	REG	NO	228	528
EPA	EST	NO		

MANUFACTURED FOR **NUFARM AMERICAS INC** 150 HARVESTER DRIVE **BURR RIDGE IL 60527** 800-455 2000



1ET	CONTENTS	GALS	(Liters)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled Harmful if swallowed Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco. Avoid contact with eyes or clothing. Wear protective eye wear. Wear long sleeved shirt and long pants socks shoes and chemical resistant gloves made of waterproof material such as barrier laminate, butyl rubber nitrile rubber neoprene rubber natural rubber polyethylene polyvinylchloride (PVC) or viton.

	FIRST AID
IF INHALED	 Move the 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
IF SWALLOWED	Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow DO NOT induce vomiting unless told to do so by the poison control center or doctor DO NOT give anything by mouth to an unconscious person
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15 to 20 minutes Call a poison control center or doctor for treatment advice

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1 877 325 1840 for emergency medical treatment information.

NOTE TO PHYSICIAN

No specific antidote is available. Treat the patient symptomatically

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber natural rubber polyvinylchloride (PVC) or viton

Shoes plus socks

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

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

USER SAFETY RECOMMENDATIONS

User must

Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark DO NOT contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. DO NOT apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable particularly where the water table is shallow may result in groundwater contamination.

SUB LABEL A COMMERCIAL AGRICULTURE

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 the restricted entry interval (REI) of 12 hours

Exception If the product is soil injected or soil incorporated the Worker Protection Standard under certain circumstances allows workers to enter the treated area if there will be no contact with anything that has been treated

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

Coveralls

Chemical resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber natural rubber polyethylene polyvinylchloride (PVC) or viton

Shoes plus socks

PRODUCT INFORMATION

Thorough uniform coverage is necessary to achieve insect control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations with a single application. Two applications may be required to achieve control retreat if needed and as directed on this label. This product may be tank mixed with other insecticides as specified for knockdown of pests or for improved control of other pests.

Applying this product to crops grown for production of true seed intended for private or commercial planting is not permitted unless allowed under state approved 24(c) labeling. As with any insecticide care must be taken to minimize exposure of this product to honey bees and other pollinators. Use of this product on crops requiring bee pollination must be avoided during bloom and a minimum of 10 days prior to bloom. Additional information on this product uses for listed crops and other questions may be obtained from the Cooperative Extension Service. PCA's consultants or your local Nufarm representative.

RESISTANCE MANAGEMENT

Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product must conform to resistance management strategies established for your use area.

This product contains a Group 4A insecticide called imidacloprid insect biotypes with acquired or inherent tolerance to group 4A insecticides may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control of targeted species. This may eventually result in partial or total loss of control of those species by this product and other Group 4A products.

The active ingredient in this product is a member of neonicotinoid chemical group. Avoid using a block of more than three consecutive applications of this product and/or other Group 4A products having the same or similar mode of action.

Following a neonicotinoid block of treatments. Nufarm strongly encourages the rotation to a block of applications with effective products of a different mode of action before using additional applications of neonicotinoid products. Use of a block rotation or windowed approach along with other IPM practices is considered an effective use strategy for preventing or delaying an insect's pest's ability to develop resistance to this class of chemistry

Foliar applications of this product or other Group 4A products from the neonicotinoid chemical class must not be used on crops previously treated with a long residual soil applied product from the neonicotinoid chemical class

Other Group 4A neonicotinoid products used as foliar treatments include Actara Assail Calypso Centric Intruder Impulse Leverage Pasada Provado Trimax Pro and Venom Other 4A Group neonicotinoid products used as soil/seed treatment include Admire Pro Advise Alias Belay Clutch Couraze Cruiser Gaucho Macho Macho Max Platinum Venom and Widow Contact your local extension specialist certified crop advisor and/or product manufacturer for additional insect resistance management recommendations Also for more information on Insect Resistance Management (IRM) visit the Insecticide Resistance Action Committee (IRAC) on the web at http://irac.online.org/

SUB LABEL A COMMERCIAL AGRICULTURE

PRODUCT USE INSTRUCTIONS

OBSERVE THE FOLLOWING PRECAUTIONS WHEN MIXING AND APPLYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES RESERVOIRS RIVERS PERMANENT STREAMS MARSHES OR NATURAL PONDS ESTUARIES AND COMMERCIAL FISH FARM PONDS

SPRAY DRIFT MANAGEMENT

The responsibility of avoiding spray drift is with the applicator. The applicator must consider weather related factors and the interaction of application equipment when making application decisions.

Mixing and Loading Requirements

The use of a properly designed and maintained containment pad for mixing and loading of any pesticide into application equipment is recommended. If containment pad is not used maintain a minimum distance of 25 feet between mixing and loading areas and potential surface to groundwater conduits such as field sumps uncased well head sinkholes or field drains.

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 rotor diameter.

Importance of Droplet Size

The droplet size is an important factor and can influence drift. Small droplets (<150 – 200 microns) drift to a greater extent than large droplets. Applications typically should be made to deliver the largest droplet range that provides adequate control and coverage. Formation of very small droplets may be minimized by appropriate nozzle selection.

Wind Speed Restrictions

Drift potential increases at wind speeds 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. **DO NOT** apply when winds are greater than 15 mph and avoid gusty and windless conditions.

Restrictions During Temperature Inversions

DO NOT make aerial or ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions typically restrict vertical air mixing, which then could cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions typically are characterized by increasing temperature 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 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 in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical mixing.

Airblast (Air Assist) Specific Recommendations for Tree Crops and Vineyards

Airblast sprayers carry droplets into the canopy of trees/vines via a radially or laterally directed air stream. The following specific drift management practices must be followed

Adjust 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 the spray to go beyond the edge of the cultivated area (i.e. turn off sprayer when turning at end rows)

Only spray inward toward the orchard or vineyard for applications to the outside rows

No-Spray Zone Requirements for Foliar Applications

DO NOT apply by ground within 25 feet or by air within 150 feet of lakes reservoirs rivers permanent streams marshes or natural ponds estuaries and commercial fish farm ponds

RUNOFF MANAGEMENT

DO NOT cultivate within 10 feet of the aquatic areas to allow growth of a vegetative filter strip. When used on erodible soils best management practices for minimizing runoff must be employed

ENDANGERED SPECIES NOTICE

Under the Endangered Species Act it is a Federal Offense to use any pesticide in a manner that results in the death of a member of an endangered species. Consult your local county bulletin. County Extension Agent or Pesticide State Lead Agency for information concerning endangered species in your area.

ROTATIONAL CROPS

Crops which are listed on imidacloprid labels or crops that have existing tolerances for imidacloprid may be planted in treated areas as soon as practical after the last imidacloprid application. Crops that are not found on an imidacloprid label or crops that do not have existing tolerances for imidacloprid may not be planted in treated areas for 12 months after the last

application Refer to the table below for plantback intervals for different crops. Note that if cover crops are planted any time after an application of this product, those crops may not be grazed or harvested for food or feed.

ROTATIONAL CROPS PLANT BACK INTERVALS

IMMEDIATE PLANT BACK

All crops on this label plus the following crops not on this label barley canola corn (field pop & sweet) rapeseed sorghum sugar beet and wheat

30 DAY PLANT BACK

Cereals (including buckwheat millet oats rice rye and triticale) soybeans and safflower

10 MONTH PLANT BACK

Onions and bulb vegetables

12 MONTH PLANT BACK

All other crops

APPLICATION INSTRUCTIONS

This product can be applied as a foliar spray or as a soil treatment (see Crop Specific Restrictions and Limitations) Thorough uniform coverage is necessary to achieve insect control. Use adequate spray volumes properly calibrated application equipment, and an adjuvant to improve coverage. Failure to provide adequate coverage and retention of this product on leaves and fruit may result in loss of insect control or delay in onset of activity.

This product may not knockdown established and heavy insect populations with a single application. Two applications may be required to achieve control. Scout fields and retreat if needed

This product may be tank mixed with other insecticides as recommended for knockdown of pests or for improved control of other pests

Apply this product with properly calibrated ground or aerial application equipment

Minimum spray volumes unless otherwise specified on the Crop Specific Restrictions and Limitations section are 10 gallons/Acre by ground applications and 5 gallons/Acre through aerial equipment

This product may also be applied by overhead chemigation (see CHEMIGATION APPLICATION section below) if allowed in crop specific recommended application section

Apply specified rate per acre as a foliar spray as pest populations begin to build **DO NOT** apply more than 0.5 lbs active ingredient per acre per year regardless of formulation or method of application unless specified within the **Crop Specific Restrictions and Limitations** for a given crop

Mix Preparation

To prepare the application mixture

- 1 Fill the spray tank with a portion of the required amount of water and begin agitation
- 2 Add the specified amount of NUPRID® 4F Insecticide
- 3 Fill the tank with the remaining water needed Maintain sufficient agitation during mixing and application

NOTE This product may also be used with other pesticides and/or fertilizer solutions refer to the Tank Mix and Compatibility Note below. When tank mixtures of this product and other pesticides are involved prepare the tank mixture as specified above and follow the suggested Mixing Order below.

Tank Mixes

Unless otherwise prohibited on this label or the label of an intended tank mix product this product may be applied in combination with any pesticide registered for the same crop timing and method of application. Observe the most restrictive label statements of various tank mix products used. IMPORTANT PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS ANY LIABILITY FOR LOSS INJURY OR DAMAGE RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER S SUPPLEMENTAL OR 24(C) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER

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Compatibility

Before full scale mixing of this product with other pesticides fertilizers secondary plant nutrients adjuvants surfactants or oils you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes the mixture is generally compatible for spraying. To evaluate potential short term effects of applying the mixture test the tank mix combination on a few plants or a small area before larger scale treatments. Wait at least 2 to 3 days for problems to become apparent. IMPORTANT MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS ANY LIABILITY FOR LOSS INJURY OR DAMAGE RESULTING FROM A MIXTURE NOT SPECIFIED ON THIS LABEL OR. IN MANUFACTURER'S SUPPLEMENTAL OR 24(c) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER.

Mixing Order

When pesticide mixtures are needed add wettable powders first this product or other flowables second and emulsifiable concentrates last. Ensure good agitation as each component is added and do not add an additional component until the previous is thoroughly mixed. A fertilizer/pesticide compatibility agent may be needed if a fertilizer solution is to be added to the mixture. Be sure to maintain constant agitation during both mixing and application to ensure uniformity of spray mixture.

Further information on Tank Mixes is available from your local Nufarm representative

CHEMIGATION APPLICATION

Types of Irrigation Systems

Chemigation applications of this product may be made to crops through overhead sprinkler chemigation systems if specified in crop specific recommendation sections **DO NOT** apply this product through any other type of irrigation system

Water Volume

Chemigation applications of this product must be made as concentrated as possible. Retention of this product on target site of insect infestation is necessary for optimum activity. Chemigation of this product in water volumes exceeding 0.10 inches/Acre are not recommended.

Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

Chemigation Monitoring

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise

Drift

DO NOT apply when the wind speed favors drift beyond the area intended for treatment

Required System Safety Devices

The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional automatic quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or normally shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Using Water from Public Water Systems

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow.

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rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection. The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

CROP-SPECIFIC RESTRICTIONS AND LIMITATIONS FIELD CROPS

COTTON		
	SOIL APPLICATIONS	
Pests	Fluid ounces/1 000 row feet	Fluid ounces/Acre
For control of Cotton aphid Plant bugs Thrips Whiteflies	0 65	8 5 – 10 6 (Depending on row spacing)
	Application Methods	

Apply specified dosage by one of the following methods

- In furrow or narrow band spray When applying as an in furrow spray direct application on or below the seed at planting OR
- Narrow band application below the eventual seed bed row in a bedding operation 7 or fewer days before planting OR
- Chemigation into root zone through low pressure drip or trickle irrigation equipment

Restrictions

Maximum amount of product allowed per crop season 10 6 fluid ounces/Acre (0 33 lb Al/Acre)

Maximum number of active ingredient applications per crop season 6

DO NOT apply more than 0.5 lbs of active ingredient per acre per season of NUPRID 4F Insecticide Provado® Trimax® or Leverage® including seed treatment as Gaucho® soil and foliar uses

DO NOT graze treated fields after any application of this product

See Resistance Management section of this label

FOLIAR APPLICATIONS		
Pests	Fluid ounces/Acre	
For control of		
Cotton aphid		
Cotton fleahopper		
Bandedwinged whitefly	10-20	
Plant bugs (excludes <i>Lygus hesperus</i>)	10-20	
Green stink bug		
Southern green stink bug		
Bollworm/Budworm (ovicidal effect)		
For suppression of		
Lygus bugs (<i>Lygus hesperus</i>)	2 0	
Whiteflies (other than banded winged whitefly)		

Application Methods

Apply through properly calibrated ground aerial or chemigation application equipment

Restrictions

Pre Harvest Interval (PHI) 14 days

Minimum interval between applications 7 days

Maximum amount allowed per season 10 0 fluid ounces/Acre (0 31 lb Al/A)

DO NOT apply more than 0.5 lbs of active ingredient per acre per season of NUPRID 4F Insecticide Provado® Trimax® or Leverage® including seed treatment as Gaucho® soil and foliar uses DO NOT graze treated fields after any application of this product

	TANK MIX APPLICATIONS	
Pests (in addition to those listed above)	NUPRID 4F Rate Fluid ounces/Acre	BIDRIN 8 Rate ¹ Fluid ounces/Acre
For early season control of Thrips		16-32
For mid to late season control of Plant bugs Stink bugs (including Brown stink bug) Grasshoppers Saltmarsh caterpillar Cotton leafperforator	10-15	40-80

Remarks

This product can be tank mixed with other pesticides and/or fertilizer solutions. When tank mixing this product with other pesticides prepare the tank mixture as specified above in the Mix Preparation instructions section Follow the following general mixing order

- Add wettable powders first
- Add this product or other flowables second
- Add emulsifiable concentrates last

Be sure to maintain agitation as each component is added and do not add an additional component until the previous component is thoroughly integrated into the mixture. If a fertilizer solution is added a fertilizer pesticide compatibility agent may be needed **Restrictions** (in addition to those listed above for NUPRID 4F foliar applications)

Refer to the BIDRIN 8 product label for specific use instructions observe all use restrictions and precautions that appear on the BIDRIN 8 label

POTATO				
SOIL APPLICATIONS				
Pests		es/1 000 row feet	Fluid ounces/Acre	
For control of Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid		45 – 0 65	6 5 – 10 0	
Net necrosis (PLRV)				
Apply specified dosage in one of the following		on Methods		
 In furrow spray during planting directed on seed pieces or seed potatoes. OR Subsurface side dress on both sides of the row covered with 3 or more inches of soil. OR Narrow band spray at ground cracking directly over the row during hilling covered with 3 or more inches of soil. OR Narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. For effective pest control or suppression, applications of this product must be placed below soil surface and in contact with seed piece or within root zone. For potatoes grown on highly permeable soils with shallow water table, at plant applications of this product may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered. 				
Maximum amount of product allowed per crop		rictions	1 lb AI/Aoro)	
waximum amount of product allowed per crop			Tib Al/Acte)	
Pests	FOLIAR A	PPLICATIONS	Fluid ounces/Acre	
For control of Aphids Colorado Potato beetle Flea beetles Fleahoppers		1 5		
Psyllids	Annlicati	on Methods		
Application Methods Apply as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment Thorough coverage of foliage is necessary				
Des III- and Internal (DIII) 7	Rest	rictions		
Pre Harvest Interval (PHI) 7 days Minimum interval between applications 7 days Maximum amount allowed per season 6 4 fluid ounces/Acre (0 20 lb Al/A)				
		APPLICATIONS1	P-1 1 (A	
Pests	Fluid ounce:	s/100 lbs seed	Fluid ounces/Acre	
For control of Aphids Colorado potato beetle Flea beetles Leafhoppers Potato psyllid Wireworms (seed piece protection)	02	- 0 4	40-80	
For suppression of disease symptoms of Potato leaf roll virus (PLRV) Potato yellows Net necrosis (PLRV)		on Methods	8 0	

Apply specified dosage as a diluted spray onto seed pieces using a shielded spray system. Dilute with 3 parts water or less to 1 part this product. Agitate or stir spray solution as needed. Fungicidal or inert absorbent dusts may be applied after this product sapplication. Apply only in areas with adequate ventilation or in areas that are equipped to remove spray mist or dust. Plant seed pieces as soon as possible after treating avoiding prolonged exposure of seed pieces treated with this product to sunlight and in accordance with the recommendation of your local Extension specialist. Consult your local Nufarm representative or crop protection product dealer for information relevant to your area.

Remarks

Based on a seeding rate of 2000 lbs/Acre

Restrictions

Maximum amount of product allowed per crop season 10 0 fluid ounces/Acre (0 31 lb Al/Acre)

DO NOT use treated seed pieces for food feed or fodder

DO NOT apply any subsequent applications of this product (in furrow) Gaucho[®] Leverage[®] or Provado[®] following a seed piece treatment of this product

Apply only in areas that are equipped to remove spray mist or dust or with adequate ventilation

FOLIAR A	PPLICATIONS ¹		
Pests Fluid ounces/Acre			
For control of			
Aphids			
Bean leaf beetle			
Cucumber beetles / Rootworm adults	15		
Japanese beetle (adults)			
Leafhoppers			
Whiteflies			
	ion Methods		
	ly calibrated ground aerial or chemigation application equipment		
Thorough coverage of foliage is necessary			
Res	trictions		
Pre Harvest Interval (PHI) 7 days			
Minimum interval between applications 7 days			
Maximum amount allowed per crop season 3 65 fluid ounces			
This use is not permitted in CA unless otherwise directed by	state approved 24(c) labeling		

TOBACCO		
	SOIL APPLICATIONS	
Pests	Fluid ounces/1 000 plants (as seedling tray drench)	Fluid ounces/1 000 plants (in furrow or transplant water)
For control of Aphids Flea beetles	0.5	07
For control of Mole crickets Whiteflies Wireworms	07-14	09-14
For suppression of disease symptoms of Tomato spotted wilt virus (TSWV)	14	14

Apply specified dosage of this product in one of the following methods

- Uniform broadcast foliar spray to seedlings in trays (tray drench) not more than 7 days prior to transplanting followed immediately by overhead irrigation to wash this product from foliage into potting media. Failure to wash this product from foliage may result in a reduction in pest control. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots. OR
- 2 In furrow spray or transplant water drench during setting OR
- 3 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment

Remarks

Important Note Proper tray drench applications of this product have been shown to be the most efficacious method of application. However, the specified rate of this product may be applied as a combination of the tray drench in the planthouse and/or transplant water drench in field. Adverse growing conditions may cause a delay in uptake of this product into the plant and a delay in control.

Restrictions

FOLIAR	APPLICATIONS
Pests	Fluid ounces/Acre
For control of Aphids	08-16
For control of Flea beetles Japanese beetles	1 6
Applic	ation Methods
Apply as a broadcast or directed spray method through pro Thorough coverage of foliage is necessary	perly calibrated ground aerial or chemigation application equipment
Re	estrictions
Pre Harvest Interval (PHI) 14 days Minimum interval between applications 7 days Maximum amount allowed per crop season 9 0 fluid ounces	s/Acre (0 28 lb Al/A)

PEANUT				
	SOIL APPLICATIONS			
Pests	Fluid ounces/Acre			
For control of				
Aphids	80-120			
Leafhoppers	0 0 - 12 0			
Whiteflies				
For suppression of	12 0			
Thrips				
Application	Application Methods			
Apply as a 1 Chemigation into root zone through prequipment OR 2 In furrow spray directed on or below	operly calibrated low pressure (drip trickle micro sprinkler or equivalent) seed			
	Remarks			
Applications of this product have been shown to increase the incidence of Tomato spotted wilt virus (TSWV) and possibly other tospoviruses on multiple varieties of peanut. Prior to making product applications, contact the State. Cooperative This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling. Extension Service or Nufarm representative for recommendations to discuss the risk and benefits of imidacloprid applications. Restrictions				
Pre Harvest Interval (PHI) 14 days	Trooutonong			
Maximum amount allowed per crop season 1	12 0 fluid ounces/Acre (0.38 lb. Al/A)			
¹ This use is not permitted in CA unless other	wise directed by state approved 24(c) labeling			
	FOLIAR APPLICATIONS ¹			
Pests Fluid ounces/Acre				
For control of				
Aphids	14			
Leafhoppers	14			
Whiteflies				
Application Methods				
Apply as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment				
Thorough coverage of foliage is necessary				
Restrictions Part Harman Internal (PHI) 44 days				
Pre Harvest Interval (PHI) 14 days Minimum interval between applications 5 days				
Maximum amount allowed per crop season 42 fluid ounces/Acre (0 13 lb Al/A)				
¹ This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling				
This dad to not portuited in or diffess difference by state approved 24(c) labeling				

VEGETABLE CROPS

CUCURBIT VEGETABLES Chayote (fruit) Chinese waxgourd (Chinese preserving melon) Citron melon Cuban pumpkin Cucumber Gherkin Gourd (edible includes hyotan cucuzza hechima Chinese okra) Momordica spp (includes balsam apple balsam pear bitter melon Chinese cucumber) Muskmelon (hybrids and/or cultivars of Cucumis melo including true cantaloupe casaba Crenshaw melon golden pershaw melon honeydew melon honey balls mango melon Persian melon pineapple melon Santa Claus melon snake melon and Winter melon) Pumpkin Squash (includes summer squash types such as butternut squash calabaza crookneck squash Hubbard squash scallop squash straightneck squash vegetable marrow and zucchini and winter squash types such as acorn squash and spaghetti squash) Watermelon (includes hybrids and/or varieties of Citrullus lanatus)

SOIL APPLICATIONS	(FIELD)	
Pests	Fluid ounces/Acre	
For control of		
Aphids		
Cucumber beetles		
Leafhoppers	8 0 – 12 0	
Thrips (foliage feeding thrips only)		
Whiteflies		
For suppression of disease symptoms of		
Bacterial wilt (as vectored by various cucumber beetles)	12 0	
Leaf silvering resulting from whitefly feeding		
Application Meth	ods	

Apply specified dosage of this product in one of the following methods

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment OR
- 2 In furrow spray directed on or below seed OR
- 3 Narrow (2 or less) surface band spray over seed line during planting incorporated to a depth of 1 to 1 5 with sufficient irrigation within 24 hours of application OR
- 4 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting OR
- 5 Post seeding drench transplant water drench or hill drench OR
- 6 Subsurface side dress on both sides of each row. This product must be incorporated into root zone

Restrictions

Pre Harvest Interval (PHI) 21 days

Maximum amount of product allowed per application 12 0 fluid ounces/Acre (0 38 lb Al/Acre)

DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling

GREENHOUSE APPLICATIONS¹

Pests	Fluid ounces/1000 plants
For control of	
Aphids	0 05
Whiteflies	

Application Method

Apply specified dosage to seedlings in trays in the planthouse targeting soil media (tray drench) not more than 7 days prior to transplanting in one of the following manners

- 1 Uniform broadcast high volume foliar spray followed immediately by sufficient overhead irrigation to wash this product from foliage into potting media without loss of gravitational liquid from the bottom of the tray Failure to wash this product from foliage may result in reduced pest control OR
- 2 Injection into overhead irrigation system using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray

Remarks

The application made in the planthouse is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots.

Important Note Not all varieties of cucurbit vegetables have been tested for tolerance to this product applied to seedling flats. Therefore treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

Restrictions

Maximum number of greenhouse applications 1

Maximum amount of product allowed per greenhouse application 0 05 fluid ounce (0 001568 lb Al)/1 000 plants

DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling

¹ This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling

FRUITING VEGETABLES Eggplant Ground cherry Okra Pepper (including bell chili cooking pimento and		
sweet) Tomato Pepinos Tomatillo	CATIONS (FIELD)	
Pests	Fluid ounces/Acre	
For control of	Tiuld ounces/Acre	
Aphids		
Colorado potato beetles		
Flea beetles	Okra & Pepper	
Leafhoppers	8 0 – 16 0	
Thrips (foliage feeding only) Whiteflies		
For suppression of disease symptoms of	Other Listed Crops	
Tomato mottle virus	8 0 – 12 0	
Tomato spotted wilt virus		
Tomato yellow leaf curl virus	ıon Methods	
Apply specified dosage of this product in one of the following m		
Chemigation into root zone through low pressure drip	trickle micro sprinkler or equivalent equipment OR	
2 In furrow spray directed on or below seed OR		
	during planting incorporated to a depth of 1 to 1.5 with sufficient	
irrigation within 24 hours of application OR		
4 Narrow band spray directly below eventual seed row	in bedding operation 14 or fewer days before planting OR	
 Post seeding drench transplant water drench or hill Subsurface side dress on both sides of each row. This 		
	trictions	
Pre Harvest Interval (PHI) 21 days		
Maximum amount of product allowed on Okra and Pepper per	application 16 0 fluid ounces/Acre (0.5 lb Al/Acre)	
Maximum amount of product allowed on other listed fruiting veg		
Al/Acre)		
DO NOT use on crops grown for seed unless allowed by state		
	CATIONS (FIELD)	
Pests For control of	Fluid ounces/1000 plants	
Aphids		
Colorado potato beetle	15-25	
Leaf beetles		
Whiteflies ¹		
For control of	2 5	
Pepper weevil (Pepper only) ²	on Methods	
	rough properly calibrated ground aerial or chemigation application	
equipment Thorough coverage of foliage is necessary	ough properly camprated ground aerial of chemigation application	
	marks	
Applications of this product must be incorporated into a full	season program where alternations of effective products from	
multiple classes of chemistry and different modes of actions	are utilized in a blocked or windowed approach. For additional	
information please contact your Nufarm representative Exten	sion Specialist or crop advisor	
¹ Higher rate must be used when targeting adult whiteflies	strough agus mont only. Time applications are to a design and	
	ground equipment only. Time applications prior to a damaging pest	
population becoming established. Good coverage of foliage and fruit is necessary for target pest control Restrictions		
Pre Harvest Interval (PHI) 0 days		
Minimum interval between applications 5 days		
Maximum amount of product allowed per crop season 7 7 flui		
DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling		
GREENHOUSE APPLICATIONS ¹		
Pests	Fluid ounces/1000 plants	
For control of		
Aphids	0 05	
Whiteflies	6/1-4L	
	on Methods	
Apply specified dosage to seedlings in trays in the planthouse t	argeting soil media (tray drench) not more than 7 days prior to	
transplanting in one of the following manners 1 Uniform broadcast high volume foliar spray followed immediately by sufficient overhead irrigation to wash this product		
1 Onlionity broadcast night volume lonal spray followed infinediately by sufficient overnead infigation to wash this product		

from foliage into potting media without loss of gravitational liquid from the bottom of the tray Failure to wash this product from foliage may result in reduced pest control OR

2 Injection into overhead irrigation system using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray

Remarks

The application made in the planthouse is not intended as a substitution for a field application. An additional field application must be made within 2 weeks following transplanting to provide continuous protection. Applications of higher rates or increased number of applications in planthouse may result in significant plant injury. Transplants must be handled carefully during setting to avoid dislodging treated potting media from roots.

Important Note Not all varieties of cucurbit vegetables have been tested for tolerance to this product applied to seedling flats. Therefore treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

Restrictions

Maximum number of greenhouse applications allowed 1

Maximum amount of product allowed per greenhouse application 0 05 fluid ounce (0 001568 lb Al)/1 000 plants

DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling

This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling

Pests	Fluid ounces/1000 plants	
For control of Aphids Whiteflies	0.7	
Applicat	tion Methods	
Apply specified dosage in a minimum of 16 gallons of water for tomatoes and 21 gallons of water for cucumbers using soil drenches micro irrigation drip irrigation or hand held or motorized calibrated irrigation equipment DO NOT apply to immature plants since phytotoxicity may occur		
Remarks		
Make application when infestation pressure surpasses threshold and beneficials are not able to maintain pest populations below damage thresholds. Repellency of bumble bee pollinators and negative effects on some beneficials (Onius sp.) can occur when this product is applied.		
Many varieties of vegetables have been tested for tolerance to this product and show good safety. However, certain		
varieties may show more sensitivity to this product. Therefore, treat a few plants before treating the whole greenhouse		
Restrictions Restrictions		
Pre Harvest Interval (PHI) 0 days		
Maximum number of applications per crop season 1		
Maximum amount of product allowed per crop season 0 7 fluid ounce (0 022 lb Al)/1 000 plants DO NOT use on crops grown for seed unless allowed by state approved 24(c) labeling		

GLOBE ARTICHOKE		
	SOIL APPLICATION ¹	
Pests	Fluid ounces/1000 plants	
For control of		
Aphids	8 0 – 16 0	
Leafhoppers		
	Application Methods	
Apply specified dosage of this product in one of the	e following methods	
1 Chemigation into root zone through low pres	ssure drip trickle micro sprinkler or equivalent equipment OR	
2 In furrow spray directed on or below seed		
	Restrictions	
Pre Harvest Interval (PHI) 7 days		
	son 16.0 fluid ounco/Acro (0.50 lb. AI/A)	
Maximum amount of product allowed per crop season 16 0 fluid ounce/Acre (0.50 lb. Al/A)		
¹ This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling		
FOLIAR APPLICATION		
Pests	Fluid ounces/1000 plants	
For control of		
Aphids	16-40	
Leafhoppers		
	Application Methods	

equipment Thorough coverage of foliage is necessary Restrictions Pre Harvest Interval (PHI) 7 days Minimum Interval between applications 14 days Maximum amount of product allowed per crop season 16 0 fluid ounce/Acre (0 50 lb AI/A)

HERBS Angelica Balm (lemon balm) Basil (fresh and dried) Borage Bumet Camomile Catnip Chervil (dried) Chinese chive Chive Clary Coriander (cilantro or Chinese parsley leaves) Costmary Culantro (leaf) Curry (leaf) Dillweed Horehound Hyssop Lavender Lemongrass Lovage (leaf) Marigold Marioram Nasturtium Parsley (dried) Pennyroval Rosemary Rue Sage Savory (summer and winter) Sweet bay (bay leaf) Tansy Tarragon Thyme Wintergreen Woodruff Wormwood SOIL APPLICATIONS (FIELD) Pests Fluid ounces/Acre For control of Aphids Flea beetles Leafhoppers 80 - 120Whiteflies For suppression of Thrips (foliage feeding only) **Application Methods** Apply specified dosage in one of the following methods In furrow spray during planting directed on or below seed OR In furrow spray or transplant water drench during setting or transplanting OR Shanked into or below eventual seed line OR Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment Remarks Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety treat only small areas or numbers of plants and evaluate prior to full scale use Restrictions Pre Harvest Interval (PHI) 14 days Maximum amount of product allowed per season 12 0 fluid ounces/Acre (0 38 lb Al/Acre) This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling **FOLIAR APPLICATIONS (FIELD)** Fluid ounces/Acre **Pests** For control of **Aphids** Leaf beetles 14 Leafhoppers Whiteflies **Application Methods** Apply as a broadcast or directed spray method through properly calibrated ground aerial or chemication application equipment Thorough coverage of foliage is necessary Remarks The addition of an organosilicone based spray adjuvant at a rate not to exceed the adjuvant manufacturer's specified use rate may improve coverage and control Not all crops and/or varieties listed above have been tested for phytotoxic effects. Without specific knowledge about a particular crop and variety treat only small areas or numbers of plants and evaluate prior to full scale use Restrictions Pre Harvest Interval (PHI) 7 days Minimum interval between applications 5 days

Maximum amount of product allowed per season 4 2 fluid ounce (0 13 lb Al/A)

HEAD and STEM BRASSICA VEGETABLES¹ Broccoli Broccoli raab (rapini) Brussels sprouts Cabbage Cauliflower Cavalo broccoli Chinese (gailon) broccoli Chinese (bok choy) cabbage Chinese (napa) cabbage Chinese mustard (gai choy) cabbage Collards Kale Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens plus Turnip tops (leaves)

LEAFY VEGETABLES¹ Amaranth (leafy amaranth Chinese spinach tampala) Arugula (Roquette) Chervil Chrysanthemum (edible leaved and garland) Corn salad Cress (garden) Cress (upland yellow rocket winter cress) Dandelion Dock (sorrel) Endive (escarole) Lettuce (head and leaf) Orach Parsley Purslane (garden and winter) Raddicchio (red chicory) Spinach (including New Zealand and vine (Malabar spinach Indian spinach)) **Watercress**² (including upland)

SOIL APPLICATIONS (FIELD)		
Pests	Fluid ounces/Acre (on 36 in rows)	
For control of		
Aphids		
Leafhoppers	5 0 – 12 0	
Thrips (foliage feeding only)		
Whiteflies		

Application Methods

Apply specified dosage of this product in one of the following methods

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment OR
- 2 In furrow spray directed on or below seed OR
- 3 Narrow (2 or less) surface band spray over seed line during planting incorporated to a depth of 1 to 1.5 with sufficient irrigation within 24 hours of application OR
- 4 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting OR
- 5 Post seeding drench transplant water drench or hill drench OR
- 6 Subsurface side dress on both sides of each row. This product must be incorporated into root zone

Restrictions

Pre Harvest Interval (PHI) 21 days

Maximum amount of product allowed per season 12 0 fluid ounces/Acre (0 38 lb Al/Acre)

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

² For applications made to watercress production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following application. Applications must be made to fully leafed up canopies only **DO NOT** apply to native cress growing in streams or other bodies of water

FOLIAR APPLICATIONS (FIELD)		
Pests	Fluid ounces/Acre	
For control of		
Aphids		
Flea beetles	15	
Leafhoppers		
Whiteflies		

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment. Thorough coverage of foliage is necessary

Restrictions

Pre Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

Maximum amount of product allowed per season 7 7 fluid ounces/Acre (0 24 lb Al/A)

¹ DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

² For applications made to watercress production fields must be drained of water at least 24 hours prior to application and water must not be reapplied to the field for a minimum of 24 hours following application. Applications must be made to fully leafed up canopies only **DO NOT** apply to native cress growing in streams or other bodies of water.

LEAFY PETIOLE VEGETABLES	Cardoon Celery Celtuce Chinese celery (fresh leaves and stalk only)
Florence fennel (including sweet anise sweet fennel find	occhio) Rhubarb Swiss chard
SOIL	APPLICATIONS (FIELD)
Pests	Fluid ounces/Acre (on 36 in rows)
For control of	
Aphids	
Leafhoppers	5 0 – 12 0
Thrips (foliage feeding only)	
Whiteflies	
	Application Methods
Apply specified dosage of this product in one of the following methods	

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment OR
- 2 In furrow spray directed on or below seed OR
- Narrow (2 or less) surface band spray over seed line during planting incorporated to a depth of 1 to 1 5 with sufficient irrigation within 24 hours of application OR
- 4 Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting OR
- 5 Post seeding drench transplant water drench or hill drench OR
- 6 Subsurface side dress on both sides of each row. This product must be incorporated into root zone

Restrictions

Pre Harvest Interval (PHI) 45 days

Maximum amount of product allowed per season 12 0 fluid ounces/Acre (0 38 lb Al/Acre)

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

LEGUME VEGETABLES (except Soybean dry)

Edible podded and Succulent shelled pea and Bean and Dried Shelled Pea and Bean including

Bean Lupinus spp (grain lupin sweet lupin white lupin and white sweet lupin)

Bean *Phaseolus* spp (field bean kidney bean lima bean navy bean pinto bean runner bean snap bean tepary bean wax bean) Bean *Vigna* spp (adzuki bean asparagus bean blackeyed pea catjang Chinese longbean cowpea Crowder pea moth bean mung bean rice bean Southern pea urd bean yardlong bean)

Pea Pis um spp (dwarf pea edible pod pea English pea field pea garden pea green pea snow pea sugar snap pea)
Other Beans and Peas Broad bean (fava) Chickpea (garbanzo bean) Guar Jackbean Lablab bean (hyacinth bean) Lentil
Pigeon pea Soybean (immature seed) Sword bean

SOIL APPLICA	TIONS (FIELD)
Pests	Fluid ounces/Acre
For control of	
Aphids	
Flea beetles	
Leafhoppers	
Whiteflies	8 0 – 12 0
For suppression of disease symptoms of	
Bean common mosaic virus (BCMV)	
Bean golden mosaic virus (BGMV)	
Beet curly top hybrigeminivirus (BCTV)	
Application	n Methods
Apply specified dosage of this product in one of the following met	hods
1 Chemigation into root zone through low pressure drip trick	de micro sprinkler or equivalent equipment OR
2. In furrow enroy at planting directed on or below seed. OF	

- 2 In furrow spray at planting directed on or below seed OR
- 3 In a narrow (2 or less) surface band over seed line during planting incorporated to a depth of 1 to 1 5 with sufficient irrigation within 24 hours following application OR
- 4 In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting OR
- 5 As a post seeding drench transplant water drench or hill drench

Restrictions

Pre Harvest Interval (PHI) 21 days

Maximum amount of product allowed per season 12 0 fluid ounces/Acre (0 38 lb Al/Acre)

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

FOLIAR APPLICATIONS (FIELD)		
Pests	Fluid ounces/Acre	
For control of Aphids Leafhoppers Whiteflies	1 4	
Ample	ation Mothada	

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment. Thorough coverage of foliage is necessary

Restrictions

Pre Harvest Interval (PHI) 7 days

Minimum interval between applications 7 days

Maximum amount of product allowed per season 4 2 fluid ounce (0 13 lb Al/A)

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

ROOT VEGETABLES Beet (garden)[†] Burdock (edible) [†] Carrot[†] Celeriac[†] Chervil (turnip rooted) [†] Chickory[†] Ginseng Horseradish Parsley (turnip rooted), Parsnip[†] Radish[†] Oriental radish (diakon) [†] Rutabaga[†] Salsify (black) [†] Salsify (oyster plant) Salsify (Spanish) Skirret Turnip[†]

TUBEROUS and CORM VEGETABLES (except Potato) Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Canna (edible Queensland arrowroot) Cassava (bitter and sweet)[†] Chayote (root) Chufa Dasheen (taro) [†] Ginger Leren Sweetpotato Tanier (cocoyam) [†] Turmeric Yam bean (jicama manoic pea) Yam (true) [†]

SOIL APPLICATIONS (FIELD)		
Pests	Fluid ounces/1 000 row ft	Fluid ounces/Acre
For control of		
Aphids		
Flea beetles	0 35 - 0 85	5 0 – 12 0
Leafhoppers	0 35 - 0 65	50-120
Thrips (foliage feeding)		
Whiteflies		

Application Methods

Apply specified dosage of this product in one of the following methods

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment OR
- 2 In furrow spray (rate specified per 1 000 row feet) or shanked in 1 to 2 inches below seed depth during planting OR
- 3 In a narrow (2 inches or less) band directly (1 to 2 inches) below the eventual seed row in a bedding operation 14 or fewer days before planting. OR
- 4 Side dress not more than 0.6 fluid ounces/1000 row feet no later than 45 days after planting

Remarks

Important Note The rate applied affects the length of control. Use higher rates where infestations occur later in crop development or where pest pressure is continuous. Rates of this product less than 0.7 fluid ounce/1.000 row feet will not provide adequate residual pest control. Crops treated with this product grown on very high organic matter soils (muck) may also require additional pest management control.

[†] The tops or greens from these crops may be utilized for food or feed

Restrictions

Pre Harvest Interval (PHI) for Root Vegetables 21 days

Pre Harvest Interval (PHI) for Tuberous and Corm Vegetables 3 days (leaves) 125 days (corms)

Maximum amount of product allowed per crop season 12 0 fluid ounces/Acre (0 38 lb Al/Acre)

Maximum applications per crop season 1

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

¹ Soil application to Root Vegetables is not permitted in California unless otherwise directed by state approved 24(c) labeling

FOLIAR APPLICATIONS ¹ (FIELD)		
	Pests	Fluid ounces/Acre
For control of		
Aphids		
Flea beetles		1 4
Leafhoppers		
Whiteflies		

Application Methods

Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment. Thorough coverage of foliage is necessary

Remarks

† The tops or greens from these crops may be utilized for food or feed

Restrictions

Pre Harvest Interval (PHI) 7 days

Minimum interval between applications 5 days

Maximum amount of product allowed per crop season

Radish 1 4 fluid ounce (0 044 lb Al/A)

All other listed crops 4 2 fluid ounces/Acre (0 13 lb Al/A)

Maximum applications per crop season

Radish 1

All other listed crops 3

DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling

¹This use is not permitted in CA unless otherwise directed by state approved 24(c) labeling

SUB LABEL A COMMERCIAL AGRICULTURE

SUGARBEET (California only)			
SOIL API	SOIL APPLICATIONS (FIELD)		
Pests	Fluid ounces/Acre		
For control of			
Aphids			
Flea beetles			
Leafhoppers	20.00		
Whiteflies	30-60		
For suppression of disease symptoms of			
Western yellows virus			
Beet curly top hybrigeminivirus (BCTV)			
Appl	ication Methods		
Apply specified dosage of this product in the following meth			
Apply specified dosage in sufficient carrier volume to insure uniform application. Apply directly below each seed furrow either			
during the bedding operation immediately prior to planting or at the time of planting			
Remarks			
The low rate may be applied to aid establishment of stands in whitefly areas or for early season control of the other pests listed			
Restrictions			
Maximum amount of product allowed per crop season 6 0	,		
DO NOT apply during bloom or within 10 days prior to bloc	, , ,		
DO NOT use on crops grown for seed unless permitted by state approved 24(c) labeling			

NUPRID® 4F INSECTICIDE CONVERSION CHART FOR LINEAR APPLICATION ONLY										
RATE fluid ounces/ Acre	RATE fluid ounces/1 000 row feet Based on <u>average</u> row spacing (in inches)									
	10	15	20	25	30	34	36	38	40	45
50_	0 10	0 14	^ 0 19	40 24	0 29	0 33 🖟	0 34	0 36	0 38	0 43
5 5	0 1,1	0 16	0 21	[♣] 0 26	0 32	0 36	0 38	0 40	0 42	0 47
6 0	0 11	0 17	0 23 ~	₹0 <u>2</u> 29	0 34	0 39	0 41	0 44	0 46	0 52
6 5	0 12	0 19	0 25	ິ"ຸ 0 31	0 37	0 42	0 45	0 47	0 50	0 56
7 0	0,13	0 20	0 27	_ 0 33 °	0 40	0 46	0 48	0 51	0 54	0 60
7 5	<u>0</u> 14	0 22	0 29	0 36	0 43	0 49	0 52	0 55	0 57	0 65
8 0	↑ 0 Î5 ₁	_e 0 23 ,	1 0 31 ੰ ਯ	0 38	0 46	0 52	0 55	0 58	0 61	0 69
8 5	_0_16 🍇	→ 0.24	0 33 🚬	0 41	0 49	0 55	0 59	0 62	0 65	0 73
9 0	_ 0 17 * 1	0 26	0 34	0 43	0 52	0 59	0 62	0 65	0 69	0 77
9 5	0 18~	0 27	0 36	0 45	0 55	0 62	0 65	0 69	0 73	0 82
10 0	0 19	0 29	0 38	0 48	0 57	0 65	0 69	0 73	0 77	0 86
10 5	≀ 0 20≉	0 30	0 40	0 50	0 60	0 68	0 72	0 76	0 80	0 90
11 0	0 21	0 32	0 42	0 53	0 63	0 72	0 76	0 80	0 84	0 95
11 5	* 0 22 v	0 33	0 44	0 55	0 66	0 75	0 79	0 84	0 88	0 99
12 0	0 23 _k	_{.0} 0 34	0 46	0 57	0 69	0 78	0 83	0 87	0 92	1 03
12 5	🕫 0 2 4 🏅	0 36	0 48	0 60	0 72	0 81	0 86	0 91	0 96	1 08
13 0	3 ₹0,25,5 €	0 37	0 50	0 62	0 75	0 85	0 90	0 95	0 99	1 12
13 5	🏅 0 26 👔	0 39	0 52	0 65	0 77	0 88	0 93	0 98	1 03	1 16
14 0	**0*27 ² ~	0 40	0 54	0 67	0 80	0 91	0 96	1 02	1 07	1 21

Important Note Rate of this product applied affects the length of control and to a considerable extent the degree of control or effect Row spacing X rate combinations in shaded blocks may not provide adequate residual pest control and are not recommended for long term residual control. Use higher labeled rates where infestations may occur later in crop development or where pest pressure is continuous. Nufarm offers no warranty for use of this product at rates below 0.35 fluid ounce/1.000 row. feet (the Row Spacing/Rate combinations that are shaded).

SUB LABEL A COMMERCIAL AGRICULTURE

BERRY, BUSH and VINE CROPS

STRAWBERRY annual and perennial varieties					
SOIL APPLICATIONS					
Pests		Fluid ounces/Acre			
For control of					
Aphids		12 0 16 0			
vvniteriies	Whiteflies Application Methods				
Apply specified dosage of this product in on					
		trickle micro sprinkler or equivalent equipment after plants are			
established or on perennial crops in e					
As a plant material or plant hole trea					
3 As a band spray over the row in a mi	nimum of 20 gailon	s of water per acre followed immediately by overhead irrigation to or other mulch that limits movement of this product into root zone			
incorporate product and root zone D	· · · · · · · · · · · · · · · · · · ·	marks			
The rate applied affects the length of control		where infestations may occur later in crop development or where			
pest pressure is continuous					
	Rest	rictions			
Pre Harvest Interval (PHI) 14 days	4C 0 flood access	-/A (0 F0 th A//A)			
Maximum amount allowed per crop seasor DO NOT apply during bloom or within 10 da					
DO NOT make both a soil and foliar applica					
DO NOT use on crops grown for seed unles					
SOIL APP	LICATIONS (post h	arvest use on perennial varieties)			
Pests		Fluid ounces/Acre			
For control of					
White grub complex)	8 0 – 12 0			
(grubs of Asiatic garden beetle Europea Masked chafer Japanese beetle Orienta					
Wasked chalch dapanese beetle chemic		on Methods			
	coincide with rer	novation of strawberry fields and during active egg laying			
period of beetles. Apply specified dosage of					
		nimum of 20 gallons of water per acre OR			
		t based on the treated row band area in proportion to the amount to the width of the anticipated fruiting bed OR			
		f water followed by 0 10 to 0 25 inch irrigation			
		marks			
		or overhead irrigation water per acre within 2 hours of application			
Failure to adequately incorporate this product in		ne may result in decreased activity of beetle grubs			
Maximum amount allowed per season 12 0		rictions			
Maximum amount anowed per season 12 0		PPLICATIONS			
Pests	1 021/11/71	Fluid ounces/Acre			
For control of					
Aphids		1 5			
Spittlebugs		10			
Whiteflies	Whiteflies				
Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application					
equipment Thorough coverage of foliage is		ough property cambrated ground acrea of one-ingulation application			
Remarks					
All soil surface applications must be followed by 0 25 inch of rainfall or overhead irrigation water per acre within 2 hours of application					
Failure to adequately incorporate this product into egg-deposition zone may result in decreased activity of beetle grubs Restrictions					
Pre Harvest Interval (PHI) 7 days					
Minimum interval between applications 5 days					
Maximum amount of product allowed per crop season 4 6 fluid ounces/Acre (0 14 lb Al/A)					
DO NOT apply during bloom or within 10 da	lys prior to bloom o	r when bees are actively foraging			
	OO NOT make both a soil and foliar application on the same crop in the same season				
DO NOT use on crops grown for seed unless allowed by state approved 24(c)labeling					

Maximum application volume (water) **Ground 20 0 GPA Air 5 0 GPA DO NOT** apply pre bloom or during bloom or when bees are actively foraging

BUSHBERRY Blueberry Currant Elderberry Gooseb	erry Huckleberry Juneberry Ligonberry Salal				
SOIL APPLICATIONS					
Pests	Fluid ounces/Acre				
For control of					
Japanese beetle					
(adults feeding on foliage)	0.0 40.0				
White grub complex	8 0 – 16 0				
(grubs of Asiatic garden beetle European and Masked chafer					
Japanese beetle and Oriental beetle)					
Application N					
Apply specified dosage of this product in one of the following method					
1 Chemigation into root zone through low pressure drip trickle					
2 18 inch band on each side of the row followed with 0 25 inch					
Remark					
For grub control apply this product to control 1st or 2nd (early) inst					
prior to harvest or post harvest until October 1st For control of Ja	panese beetle larvae make applications from June 1 to July				
15 DO NOT apply during bloom Application to grass covered rows row middles drive lanes headla	ands, and other graces areas in and ground the harry field will				
control resident grub populations. Applications directed to the roc					
Apply this product to moist soil. If necessary apply one hour of irriga					
efficacy 0.5 to 1 inch of irrigation water or rainfall must be applied					
facilitate movement into the soil and into the root zone	of received within 24 flours of application of this product to				
Restriction	ons				
Pre Harvest Interval (PHI) 7 days					
Maximum amount of product allowed per crop season 16 0 fluid or	unces/Acre (0 50 lb Al/Acre)				
DO NOT apply pre bloom or during bloom or when bees are active					
FOLIAR APPLI	CATIONS				
Pests	Fluid ounces/Acre				
For control of					
Aphids	1 2 – 1 6				
Leafhoppers/Sharpshooters					
For control of					
Japanese beetles (adults) 2 4 – 3 2					
Thrips (foliage feeding)					
For control of 3 2					
Blueberry maggot					
Application Methods					
Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment. Thorough coverage of foliage is necessary					
Restrictions					
Pre Harvest Interval (PHI) 3 days					
Minimum interval between applications 7 days					
Maximum amount of product allowed per season 16 0 fluid ounces/Acre (0 5 lb Al/A)					
Maximum number of product applications per crop season 5					
Maximum application volume (water) Ground 20.0 GPA Air 5.0 GPA					

CANEBERRY Blackberry (*Rubus eubatus* including bingleberry black satin berry boysenberry Cherokee blackberry Chesterberry Cheyenne blackberry coryberry darrowberry dewberry Dirksen thornless berry Himalayaberry hullberry Lavacaberry Loganberry lowberry Lucrettaberry mammoth blackberry marionberry nectarberry olallieberry Oregon evergreen berry phenomenalberry rangeberry ravenberry rossberry Shawnee blackberry youngberry and varieties and/or hybrids of these) Raspberry (black and red *Rubus occidentalis Rubus strigosus Rubus idaeus*)

SOIL APPLICATIONS			
Pests Fluid ounces/Acre			
For control of			
Aphids	8 0 – 16 0		
Leafhoppers	80-100		
Whiteflies			
For control of	12 0 – 16 0		
Rednecked cane borer	120-100		

For suppression of	16 0			
Thrips (foliage feeding only)	100			
Appli	ication Methods			
Apply specified dosage in one of the following methods				
1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment. OR				
2 Basal soil drench in a minimum of 500 gallons solu	ition per acre			
	Restrictions			
Pre Harvest Interval (PHI) 7 days				
Maximum amount of product allowed per season 16 0 flui				
DO NOT apply during bloom or within 10 days prior to bloo				
	R APPLICATIONS ¹			
Pests Fluid ounces/Acre				
For control of				
Aphids				
Leafhoppers	3 2			
For suppression of				
Thrips (foliage-feeding only)				
Application Methods				
Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application				
equipment Thorough coverage of foliage is necessary				
Restrictions				
Pre Harvest Interval (PHI) 3 days				
Minimum interval between applications 7 days				
Maximum amount of product allowed per season 16 0 fluid ounces/Acre (0 5 lb Al/A)				
DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging 1 This use is not permitted in CA upless otherwise directed by approved 24(c) labeling				
¹ This use is not permitted in CA unless otherwise directed by approved 24(c) labeling				

SOIL A	PPLICATIONS
Pests	Fluid ounces/Acre
For control of	
Rootgrubs (Scarab)	8 0 – 16 0
Rootworms (Chrysomelid)	
	ation Methods
Apply this product to moist soil. Apply specified dosage of thin 1. As a soil spray (ground application) directed to the roc. 2. As a chemiqation application with 600 to 1 000 gallon	ot and crown area using a minimum of 20 gal of water per acre OR
chemigation application or through irrigation/rainfall if not appl application may result in reduced control	prated into root zone by 0.1 to 0.3 inch water/Acre either with the lied through chemigation. Inadequate incorporation within 24 hours of
Make application post bloom immediately after honeybees ar	
	Remarks
Best control may be achieved when application is made po	ost bloom immediately after bees are removed. Target early instate in tank mixes with other registered fungicides or insecticides.

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

GRAPES American bunch grape Muscadine grape a	and Vinifera grape			
	APPLICATIONS			
Pests	Fluid ounces/Acre			
For control of European fruit lecanium Leafhoppers/Sharpshooters Mealybugs Phylloxera spp 1	8 0 – 16 0			
For suppression of Grapeleaf skeletonizer Nematodes ² For suppression of disease symptoms of	16 0			
Pierce's disease	-4			
	ation Methods			
Apply specified dosage of this product in one of the following methods 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment. OR 2 Subsurface side dress shanked into the root zone on both sides of the plants followed by irrigation. OR 3 Hill drench in sufficient water to insure incorporation into the root zone followed by irrigation. Remarks				
Make application between bud break and the pea berry stage. A total of 14 fluid ounces/acre is required under the following conditions. 1. Where vigorous vine growth is expected. 2. In warmer growing areas. 3. Where mealybug and European fruit lecanium populations are expected to be heavy. 4. Where vine populations exceed 600 per acre. or. 5. For suppression of nematodes. 1. Repeated and regular use of this product over multiple consecutive growing seasons controls existing <i>Phylloxera</i> infestations over time or prevents <i>Phylloxera</i> from becoming established. 2. For suppression of nematodes apply 14 fluid ounces in a single application or two 7 fluid ounce applications on a 30 to 45 day interval. Only make treatments by 1) chemigation into root zone through above ground low pressure drip tickle micro sprinkler or equivalent equipment or 2.) French plow technique followed immediately by sufficient irrigation to move the product into the entire root zone of the plant. Repeated and regular use of this product over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response.				
	estrictions			
Pre Harvest Interval (PHI) 30 days Maximum amount of product allowed per season 16 0 fluid ounces/Acre (0 5 lb Al/Acre)				
Pests	APPLICATIONS Fluid ounces/Acre			
For control of Leafhoppers/Sharpshooters Mealybugs	1 2 – 1 6			
For control of Grapeleaf skeletonizer	16			
	ation Methods			
Apply specific dosage of this product using properly calibrated ground application equipment only. Apply as a broadcast or directed spray to infested areas ensuring thorough coverage.				
Pre Harvest Interval (PHI) 0 days Minimum interval between applications 14 days Maximum amount of product allowed per crop season 3 2 fl	luid ounces/Acre (0 1 lb AI/A)			

HOPS		
SOIL APPL	LICATIONS ¹	
Pests	Fluid ounces/Acre	
For control of Aphids	9 6	
Applicatio	n Methods	
Apply specified dosage of this product in one of the following met Chemigation into root zone through low pressure drip tric Subsurface side dress shanked into the root zone on both Hill drench in sufficient water to insure incorporation into	kle micro sprinkler or equivalent equipment OR h sides of the plants followed by irrigation OR	

	Restrictions
Pre Harvest Interval (PHI) 60 days	
Maximum amount of product allowed per crop seas	on 9 6 fluid ounces/Acre (0 3 lb Al/Acre)
¹ This use is not permitted in CA unless otherwise s	pecified by state approved 24(c) labeling
	FOLIAR APPLICATIONS
Pests	Fluid ounces/Acre
For control of	3 2
Aphids	32
	Application Methods
Apply this product as a broadcast or directed spray	method through properly calibrated ground aerial or chemigation application
equipment Thorough coverage of foliage is necessar	ary
	Restrictions
Pre Harvest Interval (PHI) 28 days	
Minimum interval between applications 21 days	
Maximum amount of product allowed per season 9	6 fluid ounces/Acre (0 3 lb Al/A)

COFFEE				
SOIL A	PPLICATIONS ¹			
Pests	Fluid ounces/Acre			
For control of				
Aphids				
Leafhoppers	8 0 - 16 0			
Leafminers	80-100			
For suppression of				
Scales				
Applica	ation Methods			
Apply specified dosage in one of the following methods				
Chemigation into root zone through low pressure drip				
2 Subsurface side dress shanked into the root zone on				
3 Basal soil drench in sufficient water to insure incorpo				
	estrictions			
Pre Harvest Interval (PHI) 7 days				
Maximum amount of product allowed per crop season 16 0				
DO NOT apply during bloom or within 10 days prior to bloom				
¹ This use is not permitted in California unless otherwise dire				
	APPLICATIONS			
Pests	Fluid ounces/Acre			
For control of				
Aphids				
Leafhoppers Whiteflies				
		For suppression of		
Scales				
Application Methods				
Apply this product as a broadcast or directed spray method through property calibrated ground aerial or chemigation application equipment				
Thorough coverage of foliage is necessary				
Restrictions				
Pre Harvest Interval (PHI) 7 days				
Minimum interval between applications 7 days				
Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A)				
DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging				

CITRUS, TREE NUT and ORCHARD CROPS

CITRUS (containerized) Calamondin Citrus citron Citrus hybrids (includes chironja tangelo and tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Pummelo Orange (sweet and sour) Tangelo Satsuma mandarin White sapote (*Casimiroa* spp) and other cultivars and/or hybrids of these

SOIL APPL		
Pests	mL/ft³ of container	
For control of		
Aphids		
Asian citrus psyllid		
Black fly	0 38	
Citrus leafminer Leafhoppers/Sharpshooters		
Mealybugs		
Scales		
Whiteflies		
For control of	0.62 4.05	
Citrus root weevil (larval complex) ¹	0 63 – 1 25	
For suppression of	4.05	
Citrus thrips (foliage feeding only)	1 25	
Application	n Methods	

Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of this product per container as a soil drench or through low pressure drip or trickle irrigation water. Use sufficient carrier volume to ensure thorough uniform distribution throughout the media without loss of gravitational water from the container. For optimal results treatment must be made at planting prior to insect infestation. Retreat if necessary

Remarks

For control of larvae of the citrus root weevil complex make application prior to neonate larvae entering potting media. Utilize higher dosage for heavy infestations.

CITRUS Calamondin Citrus citron Citrus hybrids (includes chironja tangelo and tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Pummelo Orange (sweet and sour) Tangelo Satsuma mandarin White sapote (Casimiroa spp) and other cultivars and/or hybrids of these

SOIL APPLICATIONS				
Pests	Fluid ounces/Acre			
For control of				
Aphids				
Asian citrus psyllid				
Black fly				
Citrus leafminer	8 0 – 16 0			
Leafhoppers/Sharpshooters				
Mealybugs				
Scales				
Termites (FL only)				
Whiteflies				
For suppression of				
Citrus nematode				
Thrips (foliage feeding thrips only)	16			
For suppression of disease symptoms of				
Citrus tristeza virus (CTV) through vector control				
Citrus yellows				
Application Methods				

Apply specified dosage of this product in one of the following methods

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment. Apply to newly planted trees or those previously trained to drip trickle or micro sprinkler irrigation. Soil must be lightly pre-wetted to break soil surface tension prior to applications of this product. Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move this product into root zone. Allow 24 hours before initiating subsequent irrigations. OR
- 2 Soil surface band spray on both sides of the tree Bands must overlap at the tree base to create a continuous band within the drip line area of the tree to be followed immediately with light sprinkler irrigation sufficient to move the product into the upper portion of the root zone. This method is suitable for very coarse soils with 0.75 / organic matter or less. OR
- Drench to base of tree not exceeding one quart total solution per tree immediately around trunk of tree and extending outward covering the entire fibrous root system of the tree. Only for trees up to 8 feet tall. OR

- For control of existing termite infestations apply specified dosage in 1 to 4 quarts of total solution volume depending on size of tree as a drench application to the basal portion of the tree trunk and surrounding soil in the immediate vicinity of the tree trunk OR
- For suppression of citrus nematode apply specific dosage through low pressure chemigation or soil surface spray only ensuring complete coverage of the root system and utilizing application directions stated above for the respective application method Repeated and regular use of this product over several consecutive growing seasons provides the greatest degree of nematode suppression and yields the greatest plant response

Restrictions

Pre Harvest Interval (PHI) 0 days

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A)

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

FOLIAR APPLICATIONS		
Pests	Fluid ounces/100 gallons	Fluid ounces/Acre
For control of Aphids Asian citrus psyllid Black fly Leafhoppers/Sharpshooters Leafminers Mealybugs Scales ¹ Whiteflies	1 4 – 2 0 (dilute application)	4 0 – 8 0 (depending on tree size target pest and infestation pressure)
For suppression of Thrips (foliage feeding thrips only)	2 0	80

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage Apply through properly calibrated ground or aerial equipment

Remarks

Aerial application of this product may result in slower activity and reduced control compared to ground application. Where higher rate applications are appropriate increase the spray solution concentration to apply an equivalent rate per acre to that applied in the diluted application. The 8.0 fluid ounce/Acre rate is based on full sized trees. This rate may be reduced proportionally for smaller trees

1 Scales time applications to the crawler stage. Treat each generation

Restrictions

Pre Harvest Interval (PHI) 0 days

Minimum interval between sprays 10 days

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb AI/A)

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

POME FRUIT Apple Crabapple	Loquat Mayhaw Pe	ear (including Oriental	pear) Quince
		PLICATIONS	
Pests		Fluid ounces/Acre	
For control of Aphids (including Wooly apple aphid) Leafhoppers		8 0 – 12 0	
	Applicat	ion Methods	
Apply specified dosage of this product in the following method. Chemigation into root zone through low presimicro sprinkler or equivalent) equipment.		ot zone through low pressure (drip trickle	
	Res	trictions	
Maximum amount of product allowed per DO NOT apply during bloom or within 10	days prior to bloom o		
Pests	Fluid ounces/10	00 gallons	Fluid ounces/Acre
For control of Leafhoppers	04-0	8	16-32
For control of Aphids (except Woolly apple aphid) Apple maggot Leafminers San Jose scale	08		3 2
For use on Pears Only to control Mealybugs Pear psylla	2 0		8 0

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Application Methods		
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this		
product through properly calibrated ground or aerial equipment		
Remarks		
Combine applications targeting apple maggot with manufacturer's specified rate of a sticker		
Restrictions		
Pre Harvest Interval (PHI) 7 days		
Minimum interval between sprays 10 days		
Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A)		
DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging		

POMEGRANATE		
sc	DIL APPLICATIONS ¹	
Pests	Fluid ounces/Acre	
For control of		
Aphids	8 0 – 16 0	
Leafhoppers/Sharpshooters	80-100	
Whiteflies		
	pplication Methods	
Apply specified dosage of this product in the following micro sprinkler or equivalent) equipment	nethod Chemigation into root zone through low pressure (drip trickle	
The optimized of the control of the	Restrictions	
Pre Harvest Interval (PHI) 0 days	The state of the s	
Maximum amount of product allowed per crop season	16 0 fluid ounces/Acre (0.5 lb. AI/A)	
DO NOT apply during bloom or within 10 days prior to b	loom or when bees are actively foraging	
¹ This use is not permitted in CA unless otherwise directed	ed by state approved 24(c) labeling	
FOL	IAR APPLICATIONS	
Pests	Fluid ounces/Acre	
For control of		
Aphids		
Leafhoppers/Sharpshooters	3 2	
Whiteflies	3 Z	
For suppression of		
Scales		
	oplication Methods	
	directed spray to infested area ensuring thorough coverage. Apply this	
product through properly calibrated ground or aerial equ		
	Restrictions	
Pre Harvest Interval (PHI) 7 days		
Minimum interval between sprays 7 days	0.0 (6 1	
Maximum amount of product allowed per crop season		
DO NOT apply during bloom or within 10 days prior to b	loom or when bees are actively foraging	

Japanese) Plumcot Prune (fresh and dried) PRE PLAN	NT ROOT DIP APPLICATIONS
Pests	Fluid ounces/10 gallons root dip solution
For control of Black peach aphid (infesting roots)	10
	Application Methods
	ns of water Thoroughly wet bare root transplant to slightly above the graft o 5 minutes. Allow solution to dry on roots and transplant trees as soon as
S	SOIL APPLICATIONS
Pests	Fluid ounces/Acre
For control of Aphids (including Wooly apple aphid)	8 0 – 12 0
Leafhoppers	

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micro sprinkler or equivalent equipment

Restrictions

Pre Harvest Interval (PHI) 21 days

Maximum amount of product allowed per crop season 12 0 fluid ounces/Acre (0 38 lb Al/A)

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

Pests	Fluid ounces/100 gallons	Fluid ounces/Acre
For control of		
Aphids		
Green June beetle		
Japanese beetle		4.0 0.0
Leafhoppers/Sharpshooters		16-32
Plant bugs	i	
Rose chafer	0.8	
San Jose scale		
For control of		24-32
Cherry fruit fly (maggot of Eastern & Western)		24-32
For suppression of		
Plum curculio		3 2
Stinkbugs		
	Application Methods	

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment

Restrictions

Apricot Nectarine Peach

Pre Harvest Interval (PHI) 0 days

Minimum interval between applications 7 days

Maximum amount of product allowed per crop season 9 6 fluid ounces/Acre (0 30 lb Al/A)

Minimum application volume (water) Ground 50 GPA Air 25 GPA

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

Cherry Plum Plumcot Prune

Pre Harvest Interval (PHI) 7 days

Minimum interval between applications 10 days

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 50 lb Al/A)

Minimum application volume (water) Ground 50 GPA Air 25 GPA

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

TREE NUTS (except Almonds) Beechnut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert Hickory nut Macadamia nut Pecan Pistachio Walnut (black and English)

SOIL APPLICATIONS Pests Fluid ounces/Acre For control of Aphids Leafhoppers/Sharpshooters Mealybugs 80 - 160Spittlebugs Termites Two lined spittlebugs Whiteflies For suppression of Thrips (foliage feeding only) 160 For suppression of disease symptoms of Pecan scab (from reduction in honeydew deposition)

Apply specified dosage prior to or at onset of pest infestation in one of the following methods

- 1 Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment. Pre wet soil prior to applications of this product and allow soil to dry following application and prior to subsequent irrigation. OR
- 2 Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site OR
- 3 Shank or subsurface side dress injected to a depth just above or just within the root zone and between the trunk and drip line of the tree canopy. Apply this product in a minimum of 10 gallons per acre using multiple shanks on both sides of trees. Ensure product placement is below soo or orchard floor debris. Irrigation covering entire treated area must follow within 48 hours to promote uptake by root system. OR
- 4 For control of termites apply specified dosage to slightly moist soil as a high volume drench to the basal portion of the tree

trunk and surrounding soil in the immediate vicinity of the tree trunk. Utilize sufficient carrier volume to penetrate the soil to a depth of 18 to 24 inches. Allow soil to dry following treatment and prior to applying any irrigation

Remarks

Use higher rates when applied by shank or subsurface side dress used on larger trees soils with high clay content, for high plant populations and/or where extended control is desired. Under some conditions, control may not occur for 14 or more days or until two (2) irrigations have been made. Applications made later in the season may result in reduced efficacy

Restrictions

DO NOT apply in Almonds

Pre Harvest Interval (PHI) 7 days

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 50 lb Al/A)

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

Soil Application in Tree Nut orchards is not permitted in California unless otherwise directed by state approved 24(c) labeling

FOLIAR APPLICATIONS		
Pests	Fluid ounces/Acre	
For control of Aphids (except Black pecan aphid) Leafhoppers/Sharpshooters Phylloxera spp (leaf infestations) Spittlebugs Whiteflies	1 4 – 2 8	
For control of Black pecan aphid Mealybugs San Jose scale ¹	3 2	

Application Methods

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment

Remarks

Applications for control of San Jose scale must be timed according to crawler stage, treating each successive generation. Two applications on a 10 to 14 day interval may be required to achieve control

Restrictions

DO NOT apply in Almonds

Pre Harvest Interval (PHI) 7 days

Minimum interval between applications 6 days

Maximum amount of product allowed per crop season 11 5 fluid ounces/Acre (0 36 lb Al/A)

Minimum application volume (water) Ground 50 GPA Air 25 GPA

DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

	SOIL APPLICATIONS ¹
Pests	Fluid ounces/Acre
For control of	
Aphids	
Leafhoppers	8 0 – 16 0
For suppression of	
Scales	
	Application Methods
Apply specified dosage of this product in the follomicro sprinkler or equivalent) equipment	wing method. Chemigation into root zone through low pressure (drip. trickle
	Restrictions
Des Herris Haller (DHI) A deser	
Pre Harvest Interval (PHI) 0 days	
Maximum amount of product allowed per crop se	eason 16 0 fluid ounces/Acre (0 50 lb Al/A)
• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
Maximum amount of product allowed per crop se	· · · · · · · · · · · · · · · · · · ·
Maximum amount of product allowed per crop se	directed by state approved 24(c)labeling
Maximum amount of product allowed per crop se ¹ This use is not permitted in CA unless otherwise	directed by state approved 24(c)labeling FOLIAR APPLICATIONS
Maximum amount of product allowed per crop se 1 This use is not permitted in CA unless otherwise Pests	FOLIAR APPLICATIONS Fluid ounces/Acre
Maximum amount of product allowed per crop se 1 This use is not permitted in CA unless otherwise Pests For control of	directed by state approved 24(c)labeling FOLIAR APPLICATIONS
Maximum amount of product allowed per crop se 1 This use is not permitted in CA unless otherwise Pests For control of Aphids	FOLIAR APPLICATIONS Fluid ounces/Acre

Remarks

Aerial application of this product may result in slower activity and reduced control relative to results from ground application Addition of an organosilicone adjuvant at a rate not to exceed 2 0 fluid ounces/100 gallons finished spray solution may improve coverage and pest control

Restrictions

Pre Harvest Interval (PHI) 0 days

Minimum interval between applications 14 days

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A)

TROPICAL FRUIT Acerola Atemoya¹ Avocado Biriba¹ Black sapote Canistel Cherimoya¹ Custard apple¹ Feijoa

	sapote Mango Papaya Passionfruit Persimmon Pulasan Rambutan	
Sapodilla Soursop ¹ Spanish lime Star apple Starfruit S	sapote Mango Papaya Passionifult Persimmon Pulasan Kambutan Jugar apple 1 Wax jambu	
	APPLICATIONS ¹	
Pests	Fluid ounces/Acre	
For control of		
Aphids		
Avocado lacebug	12 0 – 16 0	
Leafhoppers		
Whiteflies		
For suppression of		
Scales	16 0	
Thrips (foliage feeding thrips only)		
	olication Methods	
	ng method Chemigation into root zone through low pressure	
(drip trickle micro sprinkler or equivalent) equipme		
	Restrictions	
Pre Harvest Interval (PHI) 6 days		
Maximum amount of product allowed per crop seas	son 16 0 fluid ounces/Acre (0 50 lb Al/A)	
¹ Soil application use on noted crops is not permitted	d in California unless otherwise directed by state approved 24(c)	
labeling		
FOLIA	AR APPLICATIONS	
Pests Fluid ounces/Acre		
For control of		
Aphids		
Leafhoppers/Sharpshooters		
Mealybugs		
Thrips	3 2	
Whiteflies		
For suppression of		
Thrips		
·		
	olication Methods	
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage		
Apply this product through properly calibrated groun		
	Remarks	
Ground applications of this product are more effecti	<u> </u>	
	Restrictions	
Pre Harvest Interval (PHI) 7 days		
Minimum interval between applications 10 days		
	40.0 (1 1 14 (0 // 11 81/8)	

Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A) DO NOT apply during bloom or within 10 days prior to bloom or when bees are actively foraging

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OTHER CROPS

Christmas Trees		
SOIL APPLICATIONS		
Pests	Fluid ounces/Acre	
or control of White grub complex (e g grubs of Asiatic garden 8 0 – 16 0 beetle European and Masked chafer Japanese beetle and Oriental beetle)		
	olication Methods	
Soil incorporation and movement of this product to the root zone is required for activity. This product can be incorporated most readily when applied to moist soil. Apply specified dosage in one of the following methods. 1. Chemigation into root zone through low pressure drip trickle micro sprinkler or equivalent equipment. OR. 2. 18 inch band on each side of the row (small trees) to full broadcast application (large trees) followed by rainfall or 0.25 to 1 inch of irrigation within 12 hours after application.		
	Remarks	
Apply this product during adult flight activity or up to mid		
	Restrictions	
Maximum amount of product allowed per crop season 16 ¹ This use is not permitted in California unless otherwise of		
FOLIA	AR APPLICATIONS	
Pests Fluid ounces/Acre		
For control of Aphids Adelgids Sawflies	16-32	
Application Methods		
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. Apply this product through properly calibrated ground or aerial equipment.		
Remarks		
Ground applications of this product are more effective than aerial applications For gall forming adelgids, time applications to coincide with full bud swell or first bud break of earliest bud breaking trees. Once galls form spraying this product is ineffective.		
	Restrictions	
Minimum interval between applications 7 days Maximum amount of product allowed per crop season 16 0 fluid ounces/Acre (0 5 lb Al/A)		

	L APPLICATIONS ¹
Pests	Fluid ounces/Acre
For control of Aphids Cottonwood leaf beetle	80 – 160
For suppression of	
Phylloxenna populana	
Aı	pplication Methods
	plant propagation shank into root zone followed by adequate irrigation to bil moisture level at application. Under dry conditions 0.25 inch/acre is
For Cottonwood leaf beetle, protection against damage will or	ccur when application is made early season when beetles first begin feeding
Larger trees may require earlier treatment as a result of slower	er uptake For Phylloxerina apply early in the year from break of dormancy
Larger trees may require earlier treatment as a result of slowe through May	er uptake For Phylloxenna apply early in the year from break of dormancy Restrictions
Larger trees may require earlier treatment as a result of slower	Restrictions Fluid ounces/Acre (0 50 lb Al/A)
Larger trees may require earlier treatment as a result of slower through May Maximum amount of product allowed per crop season 16 0 f This use is not permitted in California unless otherwise direct	Restrictions Fluid ounces/Acre (0 50 lb Al/A)

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	T TO STREET TO S	
For control of Cottonwood leaf beetle	6 65 to 13 3 (unhydrated cuttings/whips) 13 3 to 20 0 (partially hydrated cuttings/whips)	
For suppression of	13 3 (unhydrated cuttings/whips)	
Aphids	20 0 (partially hydrated cuttings/whips)	
Phylloxenna populana	I	
	pplication Methods	
storage After removal from cold storage plant as 2 For previously hydrated cuttings/whips removed from specified solution concentration for 24 hours prior	lant material in specified solution concentration for 24 hours prior to cold needed OR om cold storage allow plant material to reach room temperature and soak in to planting	
	ition Apply solution to existing trees or other registered crops as long as all	
product label precautions and restrictions are observed	Remarks	
The secretary content was to employ the state of the stat		
The moisture content prior to application of the cuttings/whips the solution concentration and the length of soaking interval interact to affect the amount of product absorbed into plant material. For a constant soaking interval of 24 hours, dry cuttings/whips absorb a higher quantity of solution and require a lower concentration. Conversely, more hydrated cuttings/whips absorb less solution, and require a higher concentration. Soaking of cuttings/whips must occur in a covered container in absence of UV light. Not all <i>Populus</i> sp clones/varieties/hybrids have been tested for crop safety. Without specific knowledge about a particular <i>Populus</i> sp clone/variety/hybrid a small number of cuttings/whips of each must be treated and evaluated prior to commercial use.		
	Restrictions	
Maximum amount of product allowed at plant per crop s		
¹ This use is not permitted in California unless otherwis		
	IAR APPLICATIONS	
Pests	Fluid ounces/Acre	
For control of Aphids Leaf beetles	16-32	
Aı	oplication Methods	
Apply this product as a broadcast or directed spray method through properly calibrated ground aerial or chemigation application equipment. Thorough coverage of foliage is necessary		
Remarks		
Ground application of this product is more effective than aerial application for these crops		
Restrictions		
Pre Harvest Interval (PHI) 7 days Minimum interval between applications 10 days Maximum amount of product allowed per season 16 0 DO NOT apply during bloom or with 10 days prior to blo 1 Use as a foliar application to Poplar/Cottonwood is not labeling		

COMMERCIAL POULTRY FACILITIES

POULTRY HOUSING STRUCTURES	
Pests	Fluid ounces / 1 000 ft ²
For control of Darkling beetles Hide beetles (Dermestids)	3 0 (90 ml)
Appli	cation Methods

Apply between flocks after de caking and sanitation procedures have been completed. Apply as a spot crack and crevice or surface spray on floors walls and support beams of structure. Apply using a minimum of 1/2 to 2 gallons of spray mixture per 1000 square feet. To prepare the spray mixture fill the spray tank with 1/2 the required amount of water, then add the specified amount of product. Add the remaining water while agitating or mixing. Maintain constant agitation while applying

Apply spray mixture to the entire footing including 1 foot up the wall above the footing and in 3 to 4 foot wide bands directly beneath all feed lines. The areas beneath the feed lines typically harbor large numbers of adult and larval stages of the target pest when an infestation occurs. Measure these areas to determine the appropriate amount of spray mixture to apply. For structures that are prone to large infestations, treat the footings including 1 foot up the wall and the entire floor area of the structure.

Cracks and crevice areas also are prone to large infestations of the target pest. Apply as a crack and crevice treatment around wall insulation or other areas that may harbor the target pest. If structures have supporting beams, treat the floor with a 1 foot

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band around each beam and apply 2 feet up the beam

For structures prone to extreme infestation treat the entire structure with a broadcast application. Apply 3 0 fluid ounces in 2 gallons of water per 1000 square feet of surface. Apply as a broadcast spray to areas where litter has accumulated (floor under feed and water lines, lower sections of walls, corners).

Remarks

In order to avoid problems with pest resistance to imidacloprid rotate to an insecticide with a different mode of action every 2.3 flocks. Rotate between 3 different insecticide mode of action classes labeled for control of target pests during a calendar year.

Restrictions

DO NOT apply when birds are present or within 7 days of bird placement

DO NOT allow food or feed to be contacted by the spray

Remove feed and water from the treatment area before applying

Pests	Fluid ounces / Gallon
For control of Nuisance ants	0 125 – 0 25
	(3/4 – 1 5 TSP)

Application Methods

Apply as a crack and crevice or wall void treatment inside structures. Apply to cracks crevices drilled holes onto walls around entry points such as doors windows vents eaves soffits and utility access openings. If nests are present in voids apply into the void if possible. Apply evenly to treatment surfaces but not to the point of runoff. Apply to areas around the exterior of the structure where ants may be present (soil turf ornamental shrubs and plantings, and groundcover in close proximity to or touching the structure). For above ground nests, such as in wood posts, decks, or fences, or in trees, spray into holes/openings where ants are traveling and on the wood surface.

Restrictions

DO NOT use for control of native or imported fire ants harvester ants or pharaoh ants Keep people and pets out of treated areas until sprays have dried

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STORAGE AND DISPOSAL

DO NOT contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store in a cool dry place and in such a manner as to prevent cross contamination with other pesticides fertilizers food and feed Store in original container and out of the reach of children preferably in a locked storage area

Handle and open container in a manner as to prevent spillage. If the container is leaking invert to prevent leakage. If container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. **DO NOT** walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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

CONTAINER DISPOSAL [HANDLING]

[Nonrefillable Containers 5 Gallons or Less]

Nonrefiliable container DO NOT reuse or refill this container Offer for recycling if available Triple rinse container (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 1/4 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 or reconditioning or puncture and dispose of in a sanitary landfill. Or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration or if allowed by State and local authorities by burning. If burned stay out of smoke

[Nonrefillable containers larger than 5 gallons]

Nonrefiliable container DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying

Triple rinse as follows Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows. Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. 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.

[Refillable containers larger than 5 gallons]

Refiliable container Refill this container with pesticide only DO NOT reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable containers for return to Nufarm]

Refiliable container Refill this container with pesticide only **DO NOT** reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1 800 345 3330 to arrange for return of the empty refillable container.

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WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully TO THE EXTENT CONSISTENT WITH APPLICABLE LAW (1) THE GOODS DELIVERED TO YOU ARE FURNISHED AS IS BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES GUARANTEES OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER EITHER EXPRESS OR IMPLIED OR BY USAGE OF TRADE STATUTORY OR OTHERWISE WITH REGARD TO THE PRODUCT SOLD INCLUDING BUT NOT LIMITED TO MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULARTRADE USAGE UNINTENDED CONSEQUENCES INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS OR THE MANNER OF USE OR APPLICATION INCLUDING WEATHER ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER MANUFACTURER AND SELLER AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS

LIMITATION OF LIABILITY

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR DAMAGES IN THEIR NATURE OF PENALTIES RELATING TO THE GOODS SOLD INCLUDING USE APPLICATION HANDLING AND DISPOSAL TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE TO BUYER OR USER BYWAY OF INDEMNIFICATION TO BUYER OR TO CUSTOMERS OF BUYER IF ANY OR FOR ANY DAMAGES OR SUMS OF MONEY CLAIMS OR DEMANDS WHATSOEVER RESULTING FROM OR BY REASON OF OR RISING OUT OF THE MISUSE OR FAILURE TO FOLLOW LABEL WARNINGS OR INSTRUCTIONS FOR USE OF THE GOODS SOLD BY MANUFACTURER OR SELLER TO BUYER ALL SUCH RISKS SHALL BE ASSUMED BYTHE BUYER USER OR ITS CUSTOMERS TOTHE EXTENT CONSISTENT WITH APPLICABLE LAW BUYERS OR USER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S TOTAL LIABILITY SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT

If you do not agree with or do not accept any of directions for use the warranty disclaimers or limitations on liability do not use the product and return it unopened to the Seller and the purchase price will be refunded

NUPRID is a registered trademark of Nufarm Americas Inc

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(RV120712)



NUPRID® INSECTICIDE

A SYSTEMIC and FOLIAR INSECTICIDE FOR USE on LISTED ORNAMENTALS FRUIT and NUT TREES and VEGETABLE PLANTS grown in LAWN and LANDSCAPE AREAS in GREENHOUSES NURSERIES and INTERIOR PLANTSCAPES

ACTIVE INGREDIENT

Imidacloprid 1 [(6 Chloro 3 pyridinyl)methyl] N nitro 2 imidazolidinimine

40 4%

OTHER INGREDIENTS

59<u>6%</u>

TOTAL

100 0%

Contains 4 pounds of imidacloprid per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill Leak Fire or Exposure Call CHEMTREC (800) 424 9300 For Medical Emergencies Only Call (877) 325 1840

EP	A RE	G NC	228	528
EP.	A FS	T NO		

MANUFACTURED FOR **NUFARM AMERICAS INC** 150 HARVESTER DRIVE **BURR RIDGE IL 60527** 800-455 2000



NET C	CONTENTS	GALS	(Liters	Ł
NEIL	CONTENTS	GALS	(Liters	,

40/57

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if inhaled Harmful if swallowed Causes moderate eye irritation. Avoid breathing spray mist. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating drinking chewing gum or using tobacco. Avoid contact with eyes or clothing. Wear protective eye wear. Wear long sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of waterproof material such as barrier laminate, butyl rubber, nitrille rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC) or viton.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear

Long sleeved shirt and long pants

Chemical resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber natural rubber polyethylene polyvinylchloride (PVC) or viton

Shoes plus socks

Follow manufacturers instructions for cleaning/maintaining personal protective equipment PPE If no such instructions for washables use detergent and hot water. Keep and wash PPE separately from other laundry

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

USER SAFETY RECOMMENDATIONS

User must

Wash hands before eating drinking chewing gum using tobacco or using the toilet Remove clothing 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.

FIRST AID			
IF INHALED	Move the 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		
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow DO NOT induce vomiting unless told to do so by the poison control center or doctor DO NOT give anything by mouth to an unconscious person 		
IF IN EYES	Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses if present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.		
IF ON SKIN OR CLOTHING	Take off contaminated clothing Rinse skin immediately with plenty of water for 15 to 20 minutes Call a poison control center or doctor for treatment advice		

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1 877 325 1840 for emergency medical treatment information

NOTE TO PHYSICIAN

No specific antidote is available. Treat the patient symptomatically

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water areas where surface water is present or to intertidal areas below the mean high water mark **DO NOT** contaminate water when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. This product is toxic to wildlife and highly toxic to aquatic invertebrates. This chemical demonstrates the properties and characteristics associated with chemicals

41/57

detected in ground water. The use of this chemical in areas where soils are permeable particularly where the water table is shallow, may result in groundwater contamination.

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.

Shake well before using

DO NOT apply when wind speed favors drift beyond the area intended for treatment

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

Exception If the product is soil injected or soil incorporated the Worker Protection Standard under certain circumstances allows workers to enter the treated area if there will be no contact with anything that has been treated

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

- Coveralls
 Chemical resistant gloves made of any waterproof material such as barrier laminate butyl rubber nitrile rubber neoprene rubber natural rubber polyethylene polyvinylchloride (PVC) or viton
- Shoes plus socks

NON AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms forests nurseries or greenhouses.

Keep children and pets off treated areas until sprays have dried

PRODUCT INFORMATION

Thorough uniform coverage is necessary to achieve target pest control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations with a single application. Two applications may be required to achieve control, retreat if needed and as directed on this label. This product may be tank mixed with other insecticides as specified for knockdown of pests or for improved control of other pests.

Apply this product as a broadcast or directed spray application. Time applications to begin as target pest populations begin to build. Ensure that the treated area receives a thorough uniform coverage of the spray solution. To improve coverage a spray adjuvant may be added to the NUPRID® 4F Insecticide tank mix.

Apply using either ground equipment in a minimum spray volume of 10 gallons per acre or with aerial equipment in a minimum spray volume of 5 gallons of water per acre. Use adequate spray volumes and calibrated application equipment.

RESISTANCE Some insects are known to develop resistance to insecticides after repeated use. As with any insecticide, the use of this product must conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

Mix Preparation

To prepare the application mixture

- 1 Fill the spray tank with a portion of the required amount of water and begin agitation
- 2 Add the specified amount of NUPRID® 4F Insecticide packets and allow packets to fully dissolve
- 3 Fill the tank with the remaining water needed Maintain sufficient agitation during mixing and application

42/57

This product can be used with other pesticides and/or fertilizer solutions refer to the Tank Mix and Compatibility Notes below. When tank mixtures of this product and other pesticides are involved prepare the tank mixture as specified above and follow the suggested Mixing Order below.

This product may be applied by chemigation (see APPLICATION THROUGH IRRIGATION SYSTEMS section below) if allowed in the specific application sections

TANK MIXES

Unless otherwise prohibited on this label or the label of an intended tank mix product this product may be applied in combination with any pesticide registered for the same crop timing and method of application. Observe the most restrictive label statements of various tank mix products used. IMPORTANT PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS ANY LIABILITY FOR LOSS INJURY OR DAMAGE RESULTING FROM A TANK MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURERS SUPPLEMENTAL OR 24(c) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER

Compatibility

Before full scale mixing of this product with other pesticides fertilizers secondary plant nutrients adjuvants surfactants or oils you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying. To evaluate potential short term effects of applying the mixture test the tank mix combination on a few plants or a small area before larger scale treatments. Wait at least 2 to 3 days for problems to become apparent. IMPORTANT MIXING WITH OTHER SUBSTANCES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES REDUCED EFFECTIVENESS AND/OR CAUSE CROP INJURY OR LOSS ANY LIABILITY FOR LOSS INJURY OR DAMAGE RESULTING FROM A MIXTURE NOT SPECIFIED ON THIS LABEL OR IN MANUFACTURER'S SUPPLEMENTAL OR 24(c) LABELING DISTRIBUTED FOR THIS PRODUCT IS SPECIFICALLY DISCLAIMED BY MANUFACTURER

Mixing Order

When pesticide mixtures are needed add wettable powders first this product or other flowables second and emulsifiable concentrates last. Ensure good agitation as each component is added and do not add an additional component until the previous is thoroughly mixed. A fertilizer/pesticide compatibility agent may be needed if a fertilizer solution is to be added to the mixture. Be sure to maintain constant agitation during both mixing and application to ensure uniformity of spray mixture. Further information on Tank Mixes is available from your local Nufarm representative.

APPLICATION THROUGH IRRIGATION SYSTEMS (CHEMIGATION)

This product may be applied at rates specified on this label either alone or in tank mixture with other pesticides and chemicals registered for application through irrigation systems. The normal dilution ratio is 1 100 to 1 200 depending on the system. Always meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation may be necessary if the mixture is allowed to stand more than 24 hours.

DO NOT connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place

Apply this product only through micro irrigation (individual spaghetti tube) drip irrigation overhead irrigation and ebb and flood or hand held or motorized calibrated irrigation equipment and only as directed in the specific directions *DO NOT* apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non uniform distribution of treated water

Be sure to remove scale pesticide residue and other foreign matter from the tank and entire irrigation system prior to application

A person knowledgeable of the chemigation system and responsible for its operation or a person who is under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise

If you have any questions about calibration you should contact State Extension Service specialists equipment manufacturers or other experts

SAFETY DEVICES FOR IRRIGATION SYSTEMS CONNECTED TO PUBLIC WATER SUPPLIES

If the source of water for your irrigation system is a public water supply follow the instructions below

43/57

- 1 Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year
- 2 Chemigation systems connected to public water systems must contain a functional reduced pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 4 The pesticide injection pipeline must contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6 Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock
- 7 DO NOT apply when wind speed favors drift beyond the area intended for treatment

SAFETY DEVICES FOR IRRIGATION SYSTEMS NOT CONNECTED TO A PUBLIC WATER SUPPLY

If the source of water for your irrigation system is NOT a public water supply follow the instructions below

- 1 The system must contain a functional check valve vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow
- 2 The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- The pesticide injection pipeline must also contain a functional normally closed solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 4 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where the pesticide distribution is adversely affected
- 6 Systems must use a metering pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of material that is compatible with pesticides and capable of being fitted with a system interlock
- 7 DO NOT apply when wind speed favors drift beyond the area intended for treatment

Water Volume

Chemigation applications of this product must be made as concentrated as possible. Retention of this product on target site of insect infestation is necessary for optimum activity. Chemigation of this product in water volumes exceeding 0.10 inch/Acre is not recommended.

Uniform Water Distribution and System Calibration

The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non uniform distribution of treated water. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact State Extension Service specialists equipment manufacturers or other experts.

Chemigation Monitoring

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise

44/57

Drift

DO NOT apply when wind speed favors drift beyond the area intended for treatment

RESTRICTIONS AND LIMITATIONS

DO NOT graze treated areas or use clippings from treated areas for feed or forage Prevent runoff or puddling of irrigation water following application

Keep children and pets off treated area until dry

DO NOT apply this insecticide to areas which are water logged or saturated which will not allow penetration into the root zone of the plant

Treated areas may be replanted with any crop specified on an imidacloprid label or with any crop for which a tolerance exists for the active ingredient. For crops not listed on an imidacloprid label or for crops for which no tolerances for the active ingredient have been established a 12 month plant back interval must be observed.

APPLICATION INSTRUCTIONS

NURSERY and GREENHOUSE GROWN ORNAMENTALS and VEGETABLE PLANTS

This product is for foliar and systemic insect control in and around field grown nursery and container stock indoor and outdoor ornamentals (including both greenhouse and interior plantscapes) and ornamentals grown in flats on benches or in beds. Apply this product by foliar application or soil applications including soil injection drenches and broadcast sprays. Foliar applications offer locally systemic activity against insect pests. Soil applications will result in translocation of the active ingredient upward into the plant system from root uptake. To assure optimum root uptake apply product where the growing portion of the target plant can absorb the active ingredient. The addition of a nitrogen containing fertilizer, where applicable, into the solution has been shown to enhance the uptake of the active ingredient. When making soil applications to plants with woody stems, systemic activity will be delayed until the active ingredient is translocated throughout the plant. In some cases, this translocation delay could take 60 days or longer. For this reason, soil applications must be made prior to anticipated pest infestation to achieve optimum levels of control.

FOL	Groundcovers Interior Plantscapes and Vegetable plants intended for resale only FOLIAR APPLICATION				
Pests Fluid ounces/ 100 gallons of water					
For control of					
Larvae of					
Adelgids					
Aphids					
Japanese beetles (adults)					
Lacebugs					
Leaf beetles (including Elm Viburnum)	0 75				
Leafhoppers/Sharpshooters	(22 ml)				
Leaf miners					
Mealybugs					
Sawfly larvae					
Whiteflies					
For suppression of					
Thrips					

Mix product with the required amount of water and apply as desired dependent upon the selected use pattern. When making foliar applications on hard to wet foliage such as holly pine or ivy the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used apply an amount of product on the treatment area equivalent to the amount that would be used in a dilute application. This insecticide has been found to be compatible with commonly used fungicides miticides liquid fertilizers, and other commonly used insecticides. The physical compatibility of this product may vary with different sources of pesticide products and local cultural practices. Any tank mixture which has not been previously tested must be prepared on a small scale (pint or quart jar) using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

Remarks

Start treatments prior to establishment of high pest populations and reapply on an as needed basis

Restrictions

Only for use on vegetable plants intended for resale including Broccoli Chinese Broccoli Broccoli Raab Brussel Sprouts Cabbage Chinese Cabbage Cauliflower Collards Eggplant Ground Cherry Kale Kohlrabi Lettuce Mustard Greens Pepinos

SUB LABEL B NURSERY GREENHOUSE and LANDSCAPE ORNAMENTALS

Peppers Potatoes Rape Greens Sorghum Suga	rbeets Tomatillo and Tomato			
BROADCAST APPLICATION				
Pests	Fluid ounces/1 000 FT ²	Fluid ounces/Acre		
For control of				
White grub larvae such as				
Japanese beetle larvae	0 23 – 0 30	10 0 – 12 8		
Chafers	(7 0 – 9 0 ml)	(0 625 – 0 8 pints)		
Phyllophaga spp	(70-901111)	(0 025 – 0 6 pints)		
Asiatic garden beetle				
Oriental beetle				
	Application Methods			
Mix required amount of product in sufficient water	to uniformly and accurately cover the trea	tment area DO NOT use less than 2		
gallons of water per 1 000 sq ft				
	Remarks			
For control of soil inhabiting pests irrigate thoroug	•	• •		
Bark Media Media with 30 / or more bark conten		n when treated with this product		
	Restrictions			
DO NOT apply more than 0 8 pints (12 8 fluid ou	nces) (0 4 lbs Al) per acre per year by b	roadcast application to outdoor		
ornamentals				
¹ Only for use on vegetable plants intended for res		•		
Cabbage Chinese Cabbage Cauliflower Collards		or Lettuce Mustard Greens Pepinos		
Peppers Potatoes Rape Greens Sorghum Suga	rbeets Tomatillo and Tomato			

SOIL APPLICATION (Injection & drench)				
Pests USE RATES				
For control of Adelgids Aphids Black vine weevil larvae Emerald ash borer Eucalyptus longhorned borer Flatheaded borers (including Bronze birch and Alder) Japanese beetles Lace bugs Leaf beetles (including Elm and Viburnum) Leafhoppers/Sharpshooters Leafminers Mealybugs Pine tip moth larvae Psyllids Royal palm bugs Sawfly larvae Soft scales White grub larvae Whiteflies		TREES per inch of trunk diameter (DBH) 0 05 - 0 20 fluid ounces (1 5 - 6 0 ml) ²		
		SHRUBS per foot of shrub height 0 05 – 0 10 fluid ounces (1 5 – 3 0 ml)		
		FLOWERS and GROUDCOVER 0 23 0 30 fluid ounces (7 0 9 0 ml) / 1000 FT ²		
For suppression of Armored scales		Use the high rate		
Thrips	Application methods	for TREES and SHRUBS		
Soil injection Mix the required dosage in sufficient water to inject an equal amount of solution in each hole Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Keep the treated area moist for 7 to 10 days DO NOT use less than 4 holes per tree or shrub Specific Soil Injection methods for trees and large shrubs				
GRID System	Holes must be spaced on 2.5 foot centers in a grid pattern extending to the drip line of the tree			
CIRCLE System	Apply in holes evenly spaced in circles (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line			
BASAL System	Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base			

A57

SUB LABEL B NURSERY GREENHOUSE and LANDSCAPE ORNAMENTALS

zone

Remarks

Application to trees already heavily infested with listed borers may not prevent the eventual loss of the trees due to existing pest damage and tree stress

Use higher rate for larger trees (over 8 DBH) or for difficult to control insects or for trees with severe infestations

Restrictions

DO NOT apply using Soil Injection methods in Nassau or Suffolk Counties of New York

DO NOT apply more than 0 8 pints (0 4 lbs AI) per acre per year

Application methods for FLOWERS and GROUNDCOVER

Apply as a broadcast treatment and incorporate into the soil before planting or apply after plants are established. For control of target pest, immediately irrigate following application to established plants.

Bark Media Media with 30 / or more bark content may confer a shorter period of protection when treated with this product

GRASSY AREAS IN NURSERIES

Apply this product to grassy areas under and around field and container grown plants on roadways and other grassy areas in and around nurseries to control soil inhabiting pests. Use this product for the suppression of Mole crickets and Cutworms. The active ingredient in this product has sufficient residual activity so that applications can be made prior to the egg laying activity of the target pest. Base the need for an application on historical monitoring of the site previous records and experience current season adult trapping, and other methods. Make applications prior to egg hatch of the target pests. Sufficient irrigation or rainfall is needed to facilitate the movement of active ingredient through the thatch

Pests	Fluid ounces/1 000 FT ²	Fluid ounces/Acre
For control of Larvae of Annual bluegrass weevil Asiatic garden beetle Billbugs Black turfgrass ataenius Chafers (Northern masked Southern masked European) Green June beetle Japanese beetle May or June beetle Oriental beetle Phyllophaga spp	0 23 – 0 30 (7 0 – 9 0 mł)	10 0 – 12 8 (0 625 – 0 8 pınts)
For control of Mole crickets ¹	0 30	12 8
For suppression of Chinchbugs ²	(9 0 ml)	(0 8 pints)

Application Methods

Apply this product in sufficient water to provide adequate distribution over the treatment area. The use of accurately calibrated equipment normally used for the application of soil insecticides is required. Use equipment which will produce a uniform coarse spray droplet, use a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

Irrigation or rainfall must occur within 24 hours after application to move the active ingredient through the thatch DO NOT mow turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected

Remarks

For control of grubs billbugs and annual bluegrass weevil make application prior to egg hatch of the target pest. Consult your local turf state Agricultural Experiment Station or State Extension Service Specialists for more specific information regarding timing of application.

¹ For control of Mole crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, make a curative insecticide application with the application of this product. See tank mixing section above for general instructions on tank mixtures.

² For suppression of Chinchbugs make application prior to or during the hatching of the first instar nymphs

Restrictions

Maximum application rate per acre per year 0 8 pints (12 8 fluid ounces) (0 4 lb of active ingredient)

DO NOT make application when treatment area is waterlogged or soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treatment area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile.

P3/57

TURFGRASS (including Sod farms)

Use this product for the control of soil inhabiting pests of turfgrass. Use this product for suppression of cutworms and chinch bugs. Use as directed on turfgrass on sites such as home lawns business and office complexes, shopping complexes, multi-family residential complexes, golf-courses, airports, cemeteries, parks, playgrounds, athletic fields, and sod farms. The active ingredient in this product has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. Base the need for an application on historical monitoring of the site previous records or experiences, current season adult trapping or other methods. Make applications prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall to move the active ingredient through the thatch.

Pests	Fluid ounces/1 000 FT ²	Fluid ounces/Acre
For control of		
Larvae of		
Annual bluegrass weevil		
Asiatic garden beetle		
Billbugs		
Black turfgrass ataenius		
Chafers (Northern masked	0 23 - 0 30	10 0 – 12 8
Southern masked European)	(7 0– 9 0 ml)	(0 625 – 0 8 pints)
European crane fly		
Green June beetle		
Japanese beetle		
May or June beetle		
Oriental beetle		
Phyllophaga spp		
For control of		
Mole crickets ¹	0 30	12 8
For suppression of	(9 0 ml)	(0 8 pints)
Chinchbugs ²		
	Application Methods	

Apply this product in sufficient water to provide adequate distribution over the treatment area. The use of accurately calibrated equipment normally used for the application of soil insecticides is required. Use equipment which will produce a uniform coarse spray droplet, use a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

Irrigation or rainfall must occur within 24 hours after application to move the active ingredient through the thatch **DO NOT** mow turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected

Remarks

For control of grubs European crane fly billbugs and annual bluegrass weevil make application prior to egg hatch of the target pest. Consult your local turf state Agricultural Experiment Station or State Extension Service Specialists for more specific information regarding timing of application.

¹ For control of Mole crickets make application prior to or during the peak egg hatch period. When adults or large nymphs are present and actively tunneling, make a curative insecticide application with the application of this product. See tank mixing section above for general instructions on tank mixtures.

² For suppression of Chinchbugs make application prior to or during the hatching of the first instar nymphs

Restrictions

Maximum application rate per acre per year 12 8 fluid oz (0 8 pints) (0 4 lb of active ingredient)

DO NOT make application when treatment area is waterlogged or soil is saturated with water. Adequate distribution of the active ingredient cannot be achieved when these conditions exist. The treatment area must be in such a condition that the rainfall or irrigation will penetrate vertically in the soil profile.

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EBB & FLOOD APPLICATION

Apply this product through Ebb and Flood applications. To assure accurate uptake prior to treatment bring a minimum of 10 plants up to a known field capacity and allow to dry out for one or two days. Re wet these plants to determine how much water on average each plant will absorb to bring it back at field capacity. Use the volume absorbed per plant (keeping pot sizes uniform) multiplied by the number of pots being treated. Add to this volume a required minimum to flood your smallest treatment area. This will minimize the return back to the storage tank. Re use the returned volume with subsequent irrigation or nutrients on the same plants.

	Ornamental and vegetable plants⁵ grown in containers				
Pests	Pot size (inches)	Herbaceous species including vegetable plants ⁵ (1 or 2 plants/pot)	Woody perennials Herbaceous species including vegetable plants ⁵ (3 or more/pot)		
		ml / 10	ml / 100 plants		
For control of Adelgids	2	0 80	1 25		
Aphids Armored scales (suppression) Fungus gnats (larvae only) ¹	3	1 25	1 85		
Japanese beetles (adults) Lacebugs	4	1 65	2 50		
Leaf Beetles (including Elm and Viburnum) Leafhoppers/Sharpshooters Leafminers Mealybugs Psyllids	5	2 10	3 15		
	6	2 50	3 85		
	7	2 95	4 55		
Root mealybugs ² Root weevil complex (such as Apoka Black vine	8	3 30	5 00		
Citrus root) ³ Soft scales	9	3 70	5 55		
Thrips (suppression) ⁴ Whiteflies	10	4 15	6 25		
White grub larvae (such as Japanese beetle	11	4 50	7 15		
Masked chafers European chafer Oriental beetle Asiatic garden beetle)	12	5 00	8 35		

¹ Fungus gnat larvae in the soil will be controlled by drench or incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of this product from a healthy root system translocating the active ingredient up into the plant.

DRENCH and IRRIGATION APPLICATIONS

Use this product for drench and irrigation application only on greenhouse and nursery grown ornamentals vegetable plants intended for resale only and interior plantscapes using soil drenches mirco irrigation drip irrigation overhead irrigation ebb and flood irrigation or hand held or calibrated motorized irrigation equipment. This product may be applied at rates recommended on the label either alone or in tank mixtures with other pesticides and chemicals registered for application through irrigation systems. The normal dilution ratio is 1 100 to 1 200 depending on the system. Always meter the product into the irrigation water during the first part of the irrigation cycle. The product may be mixed separately prior to injection. Agitation is necessary if the mixture is allowed to stand more than 24 hours. Remove scale pesticide residue and other foreign matter from the tank and entire

² Root Mealybug control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate. 1.0 fluid ounces (30 ml) in 150 gallons of water.

³ Citrus Root Weevil For use on non bearing citrus nursery stock

⁴ Thrips suppression on foliage only Thrips in buds and flowers will not be suppressed

⁶ Note For use on vegetable plants intended for resale only including Broccoli Chinese Broccoli Broccoli Raab Brussels Sprouts Cabbage Chinese Cabbage Cauliflower Collards Eggplant Ground Cherry Kale Kohlrabi Lettuce Mustard Greens Pepinos Peppers Potatoes Rape

SUB LABEL B NURSERY, GREENHOUSE and LANDSCAPE ORNAMENTALS

irrigation system. Only use this product through micro irrigation (individual spaghetti tubes) drip irrigation overhead irrigation ebb and flood or handheld or motorized calibrated irrigation equipment **DO NOT** apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non uniform distribution of treated water.

	Ornamental and vegetable plants ⁵ grown in containers			
Pests	Container size (inches)	Herbaceous species including vegetable plants⁵ (1 or 2 plants/pot)	Woody perennials Herbaceous species including vegetable plants ⁵ (3 or more/pot)	
		# of Containers treated	with 1 0 fluid oz (30 ml)	
	2	3000	2000	
For control of	3	2000	1350	
Adelgids	4	1500	1000	
Aphids	5	1200	800	
Fungus gnats (larvae only) ¹ Japanese beetles (adults)	6	1000	650	
Lacebugs	7	850	550	
Leaf Beetles (including Elm and	8	750	500	
Viburnum leaf beetles) Leafhoppers (including glassy	9	675	450	
winged sharpshooter)	10	600	400	
Leafminers Mealybugs	11	550	350	
Psyllids _	12	500	300	
Root mealybugs ²	Application method			
Root weevil complex (such as Apopka Black vine Citrus root weevils) ³ Soft scales	Use sufficient volume to wet most of the potting medium without loss of liquid from the bottom of the container Apply according to label directions. Follow application with moderate irrigation. Irrigate carefully during the next 10 days in order to avoid loss of active ingredient due to leaching.			
Thrips (suppression)⁴ Whiteflies	Ornamental and vegetable plants⁵ grown in flats benches or beds			
White grub larvae	0 34 fl oz (10 mL) per 1 000 square feet			
(such as Japanese beetle	Application method			
Masked chafers European chafer Oriental beetle Asiatic garden beetle)	Mix required amount in sufficient water to uniformly cover the area being treated. Do not use less than 2 gallons of mixture per 1 000 square feet. Apply as a broadcast treatment and incorporate into the medium before planting or apply after plants are established. To optimize control lightly water the treated areas if application is made to established plants. Allow no leaching or runout for 10 days after application.			
Remarks				

¹ Fungus gnat larvae in the soil will be controlled by drench or incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of this product from a healthy root system translocating the active ingredient up into the plant.

Note For use on vegetable plants intended for resale only including Broccoli Chinese Broccoli Broccoli Raab Brussels Sprouts Cabbage Chinese Cabbage Cauliflower Collards Eggplant Ground Cherry Kale Kohlrabi Lettuce Mustard Greens Pepinos Peppers Potatoes Rape

Pests	Containerized plants	
resis	Container Size (gallons)	# of Containers treated with 1 0 fluid oz (30 ml)
For control of Adelgids	1	244 – 340

² Root Mealybug control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate. 1.0 fluid ounces (30 ml) in 150 gallons of water.

³ Citrus Root Weevil For use on non bearing citrus nursery stock

⁴Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed

T		
Aphids Fungus gnats (larvae only) ¹ Japanese beetles (adults)	2	210 – 280
Lacebugs Leaf Beetles (including Elm and Viburnum)	3	185 – 220
Leafhoppers/Sharpshooters Leafminers Mealybugs	5	110 – 160
Psyllids Root mealybugs ² Root weevil complex	7	75 – 100
(such as Apoka Black vine Citrus root) ³ Soft scales	10	45 – 60
Thrips (suppression) ⁴ Whiteflies White grub larvae	15	30 – 40
(such as Japanese beetle Masked chafers European chafer Oriental beetle Asiatic garden beetle)	20	15 – 20

Application method

Apply in sufficient water to wet the potting medium. Make applications prior to egg hatch of the target pest. Irrigate moderately after application to move the active ingredient into the root zone.

Remarks

⁴Thrips suppression on foliage only. Thrips in buds and flowers will not be suppressed

Field and Forest Nurseries		
Pests	Fluid ounces / 1 000 ft of row	Fluid ounces / 1 000 square ft
For control of White grub larvae ¹ (such as Japanese beetle Masked chafers European chafer Oriental beetle Asiatic	1 0 (30 ml)	0 34 (10 ml) 12 8 Fluid ounces / Acre
garden beetle)	A	12 o Fluid Outlices / Acre

Application method

Apply as a uniform band on either side of the row using a band width six (6) inches wider than the actual root ball diameter to be dug **DO NOT** allow bands in adjacent rows to overlap

Remarks

Mowing of the vegetation in the area to be treated to a height of 3 inches or less prior to application will improve the consistency of control

Apply May through July For target pest control treatment must be followed by rainfall or irrigation

¹ For grub control in areas of turf apply as a broadcast application using 0 25 – 0 34 fluid ounces (7 – 10 ml) per 1 000 square feet (10 9 – 12 8 fluid ounces / Acre)

Restrictions

DO NOT use less than 2 gallons of spray volume per 1 000 square feet (85 GPA)

DO NOT exceed 12 8 fluid ounces / acre per year (0 4 lbs Al/A)

LANDSCAPE ORNAMENTALS and PLANTINGS

This product is for use on ornamentals and plantings in commercial and residential landscapes and interior plantscapes. It is a systemic product. Apply this product by foliar application or soil applications including soil injection drenches and broadcast sprays. Foliar applications offer locally systemic activity against insect pests. Soil applications will result in translocation of the active ingredient upward into the plant system from root uptake. Apply this product where the growing portion of the target plant can absorb the active ingredient. The addition of a nitrogen containing fertilizer where applicable into the solution has been shown to enhance the uptake of the active ingredient. When making soil applications to plants with

¹ Fungus gnat larvae in the soil will be controlled by drench or incorporation. No adult Fungus Gnat control. Other foliar insect control is achieved by the uptake of this product from a healthy root system translocating the active ingredient up into the plant.

² Root Mealybug control will require a thorough drenching of containerized media. Coverage is essential for control while minimizing the amount of leachate. Rate. 1.0 fluid ounces (30 mL) in 150 gallons of water.

³ Citrus Root Weevil For use on non bearing citrus nursery stock

SUB LABEL B NURSERY, GREENHOUSE and LANDSCAPE ORNAMENTALS

woody stems systemic activity will be delayed until the active ingredient is translocated throughout the plant. In some cases this translocation delay could take 60 days or longer. For this reason, soil applications must be made prior to anticipated pest infestation to achieve optimum levels of control.

For control of Laryae of Adelgrids Aphids Japanese beetles (adults) Lacebugs Lacebugs Lacebugs Lacebugs Leaf beetles (including Elm Viburnum) Leaf hoetles (including Elm Viburnum) Leaf hoetles (including Elm Viburnum) Leaf hoetles (including Elm Viburnum) Leaf moners Mealybugs Sawfly larvae Whiteflies For suppression of Thinps Nusance Ant Management Use this product to control aphids scale insects mealybugs and other sucking pests on ornamentals to limit the honey available as a food source for nuisance ant populations Applications can then be supplemented with residual sprays placements or other ant control tactics to further reduce ant populations Mix product with the required amount of water and apply as desired dependent upon the selected use pattern. When mat foliar applications on hard to wet foliage such as holly pine or ny the addition of a spreader/sticker is recommended concentrate or mist type spray equipment is used use an equivalent amount of product on the area sprayed as would be una dilute application This insecticide has been found to be compatible with commonly with different source pesticide products and local cultural practices. Any tank mixture which has not been previously tested must be prepared of small scale (pint or quart jar) using the proper proportions of pesticides and water to ensure the physical compatibility of mixture Remarks Start treatments prior to establishment of high pest populations and reapply on an as needed basis BROADCAST APPLICATION Pests Filuid ounces/1000 FT Fluid ounces/Acre For control of White grub larvae such as Japanese beetle larvae Chafers Application Methods Mix required amount of product in sufficient water to uniformly and accurately cover the treatment area. DO NOT use less tha gallons of water per 1 000 sq ft.	F	OLIAR APPLICATION	· · · · - · · · · · · · · · · · · · · ·
For control of Larvae of Adelgids Aphids Japaness beetles (adults) Lacebugs Leaf heetles (including Elm Viburnum) Leaf hoppers/Sharpshooters Leaf miners Mealybugs Sawfly larvae Whitefflies For suppression of Thrips Nuisance Ant Management Use this product to control aphids scale insects mealybugs and other sucking pests on ornamentals to limit the honey available as a food source for nuisance ant populations Applications can then be supplemented with residual sprays placements or other ant control tactics to further reduce ant populations Mix product with the required amount of water and apply as desired dependent upon the selected use pattern. When mal foliar applications on hard to wet foliage such as holly pine or rivy, the addition of a spreader/stucker is recommended concentrate or mist type spray equipment is used use an equivalent amount of product on the reas prayed as would be un a dilute application. This insecticide has been found to be compatible with commonly used fungicides miticides like fertilizers and other commonly used insecticides. The physical compatibility of this product may vary with different source pesticide products and local cultural practices. Any tank mixture which has not been previously tested must be prepared of small scale (pint or quart jar) using the proper proportions of pesticides and water to ensure the physical compatibility of mixture. Remarks Start treatments prior to establishment of high pest populations and reapply on an as needed basis. BROADCAST APPLICATION Pests Fluid ounces/1 000 FT² Fluid ounces/Acre For control of White grub larvae such as Japanese beetle larvae Chafers (7 0 – 9 0 mil) (0 625 – 0.8 pints) Application Methods Mix required amount of product in sufficient water to uniformly and accurately cover the treatment area. DO NOT use less tha gallons of water per 1 000 sq ft.	Pests	Fluid ounces	/ 100 gallons of water
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Aphids Japanese beetles (adults) Lacebugs Leaf beetles (including Elm Vibumum) Leaf mopers/Sharpshooters Leaf miners Mealybugs Sawfly larvae Whitefiles For suppression of Thinps Nuisance Ant Management Use this product to control aphids scale insects mealybugs and other sucking pests on ornamentals to limit the honey available as a food source for nuisance ant populations Applications can then be supplemented with residual sprays placements or other ant control factics to further reduce ant populations Application Methods Mix product with the required amount of water and apply as desired dependent upon the selected use pattern. When mal foilar applications on hard to wet foliage such as holly prine or my the addition of a spreader/sticker is recommended concentrate or mist type spray equipment is used use an equivalent amount of product on the area sprayed as would be una dilute application. This insecticide has been found to be compatible with commonly used fungicides mitodes like fertilizers and other commonly used insecticides. The physical compatibility of this product may vary with different source pesticide products and local cultural practices. Any tank mixture which has not been previously tested must be prepared of mixture. Remarks Start treatments prior to establishment of high pest populations and reapply on an as needed basis. BROADCAST APPLICATION Posts Fluid ounces/1000 FT ² Fluid ounces/Acre For control of White grub larvae such as Japanese beetle larvae Chafers Phyliophaga spp (7 0 – 9 0 ml) (0 625 – 0 8 pints) Application Methods Mix required amount of product in sufficient water to uniformly and accurately cover the treatment area DO NOT use less tha gallons of water per 1 000 sq ft	Larvae of		
Aphids Japanese beetles (adults) Lacebugs Leaf beetles (including Elm Vibumum) Leaf mopers/Sharpshooters Leaf miners Mealybugs Sawfly larvae Whitefiles For suppression of Thinps Nuisance Ant Management Use this product to control aphids scale insects mealybugs and other sucking pests on ornamentals to limit the honey available as a food source for nuisance ant populations Applications can then be supplemented with residual sprays placements or other ant control factics to further reduce ant populations Application Methods Mix product with the required amount of water and apply as desired dependent upon the selected use pattern. When mal foilar applications on hard to wet foliage such as holly prine or my the addition of a spreader/sticker is recommended concentrate or mist type spray equipment is used use an equivalent amount of product on the area sprayed as would be una dilute application. This insecticide has been found to be compatible with commonly used fungicides mitodes like fertilizers and other commonly used insecticides. The physical compatibility of this product may vary with different source pesticide products and local cultural practices. Any tank mixture which has not been previously tested must be prepared of mixture. Remarks Start treatments prior to establishment of high pest populations and reapply on an as needed basis. BROADCAST APPLICATION Posts Fluid ounces/1000 FT ² Fluid ounces/Acre For control of White grub larvae such as Japanese beetle larvae Chafers Phyliophaga spp (7 0 – 9 0 ml) (0 625 – 0 8 pints) Application Methods Mix required amount of product in sufficient water to uniformly and accurately cover the treatment area DO NOT use less tha gallons of water per 1 000 sq ft			
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DO NOT apply to Landscape Ornamentals and Plantings through any irrigation system

SUB LABEL B NURSERY, GREENHOUSE and LANDSCAPE ORNAMENTALS

	Flowers and Groundcover		
SOIL APPLICATION			
	Pests	USE RATES	
For control of			
Adelgids		TREES per inch of trunk diameter (DBH)	
Aphids	lanca	0.05 0.20 fluid aurage (4.5 0.0 m)\2	
Black vine weevil Emerald ash bore		0 05 - 0 20 fluid ounces (1 5 - 6 0 ml) ²	
Eucalyptus longh		The state of the s	
Flatheaded borers	s (including Bronze birch and Alder) ¹		
Japanese beetles		SHRUBS per foot of shrub height	
Lace bugs		0.05 0.40 flord compace (4.5 2.0 mm)	
	uding Elm and Viburnum)	0 05 - 0 10 fluid ounces (1 5 - 3 0 ml)	
Leafhoppers/Shar	rpshooters		
Leafminers			
Mealybugs	••		
Pine tip moth larva Psyllids	ae	FLOWERS and GROUDCOVER	
Royal paim bugs		I LOVENS and SNOODCOVEN	
Sawfly larvae		0 23 0 30 fluid ounces (7 0 – 9 0 ml) / 1000 FT ²	
Soft scales		(5 5 1111)	
White grub larvae			
Whiteflies			
For suppression of	of		
Armored scales		Use the high rate	
Thrips	Annlication method	s for TREES and SHRUBS	
pressure and use s		o inject an equal amount of solution in each hole. Maintain a low id into the treatment zone. Keep the treated area moist for 7 to 10.	
Specific Soil Injec	tion methods for trees and large shrub	\$	
GRID System		ers in a grid pattern extending to the drip line of the tree	
		(use more than one circle dependent upon the size of the tree)	
CIRCLE System	beneath the drip line of the tree extend		
BASAL System Space injection holes evenly around the base of the tree trunk no more than 6 to 12 inches out from the base			
	5450		
	ormly apply the dosage in no less than 10	gallons of water per 1 000 square feet as a drench around the base	
	ormly apply the dosage in no less than 10	gallons of water per 1 000 square feet as a drench around the base or any other barrier that will stop solution from reaching the root	
	ormly apply the dosage in no less than 10 or directed to the root zone. Remove plastic	or any other barrier that will stop solution from reaching the root	
of the tree or shrub zone	ormly apply the dosage in no less than 10 go directed to the root zone. Remove plastic	c or any other barrier that will stop solution from reaching the root	
of the tree or shrub zone Application to tree	ormly apply the dosage in no less than 10 properties of directed to the root zone. Remove plastic properties already heavily infested with listed bore.	or any other barrier that will stop solution from reaching the root	
of the tree or shrub zone Application to tree pest damage and	prmly apply the dosage in no less than 10 prmly apply the dosage in no less than 10 prmly apply the root zone. Remove plastic Fees already heavily infested with listed bore tree stress.	c or any other barrier that will stop solution from reaching the root Remarks rs may not prevent the eventual loss of the trees due to existing	
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of the tree or shrub zone Application to tree pest damage and Use higher rate fo	prmly apply the dosage in no less than 10 so directed to the root zone. Remove plastic sets already heavily infested with listed bore tree stress or larger trees (over 8 DBH) or for difficult of the properties of larger trees (over 8 DBH) are stress or larger trees (over 8 DBH) or for difficult or larger trees (over 8 DBH) are for difficult or larger trees (over 8 DBH) per acre per year than 0 8 pints (0 4 lbs Al) per acre per year.	c or any other barrier that will stop solution from reaching the root Remarks The state of the trees due to existing the state of the trees due to exist of the	
Application to tree pest damage and Use higher rate for NOT apply mor	prmly apply the dosage in no less than 10 or directed to the root zone. Remove plastic sets already heavily infested with listed bore tree stress or larger trees (over 8 DBH) or for difficult Remains and the process of the process	Remarks The state of the trees due to existing the solution from reaching the root the state of the trees due to existing the state of	

Pomefruits Apple Crabapple Loquat Mayhew Pear Pear (oriental) Quince		
	FOLIAR APPLICATION	
Pests USE RATES		S
For control of Aphids (except Wooly apple aphid) ¹ Leafhoppers/Sharpshooters ² Leafminers ³ Mealybugs ⁴ San Jose scale ⁵	0 75 fluid ounces (22 ml) / 100 gallons of water	3 0 fluid ounces/ Acre (90 ml)
	Application methods	

Apply the specified dosage as a foliar spray as needed after petal fall is complete

Remarks

The amount of this product required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees.

¹ For control of Rosy apple aphid apply prior to leafrolling caused by the pest

² For late season (preharvest) control of Leafhopper species apply this product while most Leafhoppers are in the nymphal stage ³ For late season (preharvest) control of Leafhopper species apply this product while most Leafhoppers are in the nymphal stage ³ For first generation Leafminer control make 1 th application as soon as petal fall is complete. Greatest Leafminer control will result from the earliest possible application. For 2 ^{dh} and succeeding generations of Leafminer optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A 2 ^{dh} application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. This product will not control late state larvae.

⁴ For control of Mealybugs insure good spray coverage of the trunk and scaffolding limbs or other resting sites of the

⁵ For San Jose scale time applications to the crawler stage Treat each generation

Restrictions

DO NOT apply more than 3 0 fluid ounces (0 09 lbs Al) per acre in a single application

DO NOT make more than 5 applications

Allow 10 or more days between applications

Allow at least 7 days between last application and harvest

DO NOT use on Pomefruits grown for commercial production

DO NOT use in California for control on Pears

Pecan trees		
	FOLIAR APPLICATION	
Pests	USE RATE	S
For control of Yellow pecan aphid Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera	0 75 fluid ounces (22 ml) / 100 gallons of water	3 0 fluid ounces/ Acre (90 ml)
	Application methods	

Make foliar applications as pests begin to build before populations become extreme. Two applications at a 10 to 14 day interval may be required to achieve control. Scout and retreat if needed. Thorough uniform coverage of foliage is necessary for optimal control. Addition of an organosilicone based spray adjuvant at a rate not to exceed the adjuvant manufacturer's recommended use rate may improve coverage.

Remarks

The amount of this product required per acre will depend on tree size and volume of foliage present. The rate per acre is based on a standard of 400 gallons of dilute spray solution per acre for large trees.

Restrictions

DO NOT apply more than 9 0 fluid ounces (0 28 lbs AI) per acre per year

DO NOT make more than 3 applications per year

Allow 10 or more days between applications

DO NOT use on Pecans grown for commercial production

DO NOT use on Pecans in California unless directed by state approved 24(c) labeling

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Grapes	-	
	FOLIAR APPLICATION	
Pests	USE RATES	
For control of Leafhoppers/Sharpshooters Mealybugs	0 75 fluid ounces (22 ml) / 100 gallons of water	1 5 fluid ounces/ Acre (45 ml)
	Application methods	
Apply specified dosage of this product as a	a foliar spray using 200 gallons of water per acre	
	Restrictions	
DO NOT apply more than 3 0 fluid ounces		
Allow 14 or more days between application	ns	
Application can be made up to and includir		
DO NOT use on Pecans grown for comme		
DO NOT use on Pecans in California unles	ss directed by state approved 24(c)labeling	

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STORAGE AND DISPOSAL

DO NOT contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Store in a cool dry place and in such a manner as to prevent cross contamination with other pesticides fertilizers food and feed Store in original container and out of the reach of children preferably in a locked storage area

Handle and open container in a manner as to prevent spillage. If the container is leaking invert to prevent leakage. If container is leaking or material spilled for any reason or cause carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. **DO NOT** walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below. In spill or leak incidents, keep unauthorized people away.

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

CONTAINER DISPOSAL [HANDLING]

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container DO NOT reuse or refill this container Offer for recycling if available Triple rinse container (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 1/4 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or if allowed by State and local authorities by burning. If burned stay out of smoke

[Nonrefillable containers larger than 5 gallons]

Nonrefillable container DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying

Triple rinse as follows. Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Pressure rinse as follows. Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. 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.

[Refillable containers larger than 5 gallons]

Refiliable container Refill this container with pesticide only DO NOT reuse this container for any other purpose Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable containers for return to Nufarm]

Refiliable container Refill this container with pesticide only **DO NOT** reuse this container for any other purpose Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1 800 345 3330 to arrange for return of the empty refillable container.

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WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully TO THE EXTENT CONSISTENT WITH APPLICABLE LAW (1) THE GOODS DELIVERED TO YOU ARE FURNISHED AS IS BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES GUARANTEES OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER EITHER EXPRESS OR IMPLIED OR BY USAGE OF TRADE STATUTORY OR OTHERWISE WITH REGARD TO THE PRODUCT SOLD INCLUDING BUT NOT LIMITED TO MERCHANTABILITY FITNESS FOR A PARTICULAR PURPOSE USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULARTRADE USAGE UNINTENDED CONSEQUENCES INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS OR THE MANNER OF USE OR APPLICATION INCLUDING WEATHER ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER MANUFACTURER AND SELLER AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS

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If you do not agree with or do not accept any of directions for use the warranty disclaimers or limitations on liability do not use the product and return it unopened to the Seller and the purchase price will be refunded

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(RV120712)

MASTER LABEL / END PAGE

57/57

LABEL HISTORY

FILE NAME	REVISION	COMMENT
000228 00528 20090626 MASTER	RV062609	EPA APPROVAL
000228 00528 20101201 Revised_label	RV120110	Removal of Almond use
000228 00528 20110125 Revised_label	RV012511	Changes per EPA memo
000228 00528 20110207 MASTER	RV020711	EPA APPROVAL
000228 00528 20110207 MASTER	RV020711	Addressed typos for Hawaii – 01/20/2012
000228 00528 20121121 EPA Amendment	RV112112	EPA Amendment – Linear Application Chart
000228 00528 20121207 EPA Amendment	RV120712	EPA Corrections