228-488 07/20/2006 1/18

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:	Date of Issuance:
228-488	JUL 20 2006

Term of Issuance: Conditional

Name of Pesticide Product:
Nuprid 1.6 Flowable Insecticide

NOTICE OF PESTICIDE:
_X_ Registration
__ Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. George Meindl
Nufarm Americas, Inc.
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60527

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

egistration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A). Once a pesticide is registered, however, it is not regarded as permanently acceptable. Registration does not eliminate the need for continual reassessment of pesticides. If the Agency determines that, at any time, additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under FIFRA section (3)(c)(2)(B).

1. Revise the EPA Registration Number to read,AEPA Reg. No. "228-488".

Signature of Approving Official:

/S/

Dani Daniel
Insecticide-Rodenticide Branch
Registration Division (7505C)

Date:

JUL 20 2006

EPA Form 8570-6

2. Submit the data requirements for storage stability and corrosion characteristics studies.

3. Correct the spelling of the thickener on the CSF. Note it is spelled with an "x" and not a "z". (Xanthan)

4. Use the following "Hazards to Humans and Domestic Animals":

Harmful if absorbed through skin. Harmful if inhaled. Harmful if swallowed. Avoid contact with skin, eyes or clothing. Wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves. Avoid breathing spray mist.

5. Use the following "User Safety Recommendations":

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

6. Use the following First Aid Statement:

If on skin:
Take off contaminated clothing.
Rinse skin immediately with plenty of water for 15-20 minutes.
Call a poison center or doctor for treatment advice.

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 or water if able to swallow.
Do not induce vomiting unless told to by a poison control center or doctor.
Do not give anything to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

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Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy of the label is enclosed for your records. If you have any questions regarding this notice, please contact me at (703) 305-5409.

Enclosure:

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| GROUP | 4A | INSECTICIDE |

NUPRID™ 1.6
FLOWABLE INSECTICIDE

FOR CONTROL OF CERTAIN INSECTS INFESTING VARIOUS CROPS.

ACTIVE INGREDIENT:	
Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine	17.4%
OTHER INGREDIENTS:	82.6%
TOTAL:	100.0%

Contains 1.6 pounds of imidacloprid per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION - CAUCION

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

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:
JUL 20 2006
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 228-488

EPA REG. NO. 228-
EPA EST. NO. 228-IL-1

MANUFACTURED BY
NUFARM AMERICAS INC.
BURR RIDGE, IL 60527-0866

Nufarm

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION -CAUCION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

FIRST AID	
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, polyethylene, 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 STATEMENTS

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 should:

- 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, 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.

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 should consider weather related factors and the interaction of application equipment when making application decisions.

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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. Typically smaller droplet sizes, such as less than 150 to 200 microns, have a greater tenancy to drift compared to larger 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 should 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 should 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.

Resistance Management

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

This product contains a Group 4A insecticide called imidacloprid. Insect biotypes with acquired or inherent tolerance to group 4A products may eventually dominate the insect population if Group 4A products 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 before using additional applications of neonicotinoid products. Use 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 should not be used on crops previously treated with a long-residual, soil-applied product from the neonicotinoid chemical class.

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Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, CALYPSO®, Centric, Intruder, LEVERAGE® Provado® and TRIMAX®. Other 4A Group, neonicotinoid products used as soil treatment include: ADMIRE® and Platinum.

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/*.

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
- Waterproof gloves
- Shoes plus socks.

Application Recommendations

This product should be applied as a directed or broadcast foliar spray. Thorough coverage of foliage is necessary without runoff for optimum insecticidal efficacy. Use adequate spray volumes, properly calibrated application equipment and spray adjuvant if necessary to obtain through 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 be applied with properly calibrated ground or aerial application equipment. Minimum recommended spray volumes unless otherwise specified on crop specific recommended application sections are 10 gallons/Acre by ground applications and 5 gallons/Acre through aerial equipment. This product may also be applied by overhead chemigation (see additional CHEMIGATION DIRECTIONS FOR USE section below) if allowed in crop specific recommended application section.

Use of this product on crops grown for production of true seed intended for private or commercial planting is generally not recommended but may be allowed under State specific supplemental labeling, As with any insecticide, care should be taken to minimize exposure of this product to honey bees and other pollinators. Use of this product on crops requiring bee pollination should be avoided during bloom and a minimum of 10 days prior to bloom. Additional information on this product uses for these crops and other questions may be obtained from the Cooperative Extension Service, PCAs, or local Nufarm representatives.

Do not apply more than 0.5 lbs. active ingredient per acre, per crop season, regardless of formulation or method of application, unless specified within a crop specific recommended applications section for a given crop.

Mixing Instructions

To prepare the application mixture, add a portion of the required amount of water to the spray tank and with agitation add this product. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application. This product may also be used with other pesticides and/or fertilizer solutions. **Please see Compatibility Note below**. When tank mixtures of this product and other pesticides are involved, prepare the tank mixture as recommended above and follow suggested Mixing Order below.

Mixing Order

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

Compatibility Note

Test compatibility of the intended tank mixture before adding this product to the spray or mix tank. Add proportionate amounts of

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each ingredient in the appropriate order, to a pint or quart jar, cap, shake for 5 minutes, and let set for 5 minutes. Poor mixing or formation of precipitates that do not readily re-disperse indicates an incompatible mixture that should not be used. For further information, contact your local Nufarm representative.

CHEMIGATION DIRECTIONS FOR USE

Refer to GENERAL DIRECTIONS FOR USE section before proceeding with 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 should 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, you should 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 should 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 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 afunctional 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.

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ROTATIONAL CROPS*
Treated areas may be replanted with any crop specified on an imidacloprid label, or any crop for which a tolerance exists for the active ingredient, as soon as practical following the last application. 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 should be observed.
Immediate *Plant-back*:
All crops on this label plus the following crops not on this label: barley, canola, cardoon, celery, Chinese celery, corn (field, sweet and pop), Celtuce, cranberry*, cucurbits, Florence fennel, leafy petioles*, mustard seed*, rapeseed, rhubarb, sorghum, sugar beet, Swiss chard and wheat.
30-Day Plant-back:
Cereals (including buckwheat, millet, oats, rice, rye and triticale), soybeans, safflower
12-Month Plant-back:
All other crops
* Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed.

FIELD CROPS
Recommended Applications

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations. 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.

COTTON

Pests Controlled	Rate fluid ounces/Acre
Aphids Fleahoppers Plant bugs (east of Rocky Mountains)	3.8
Pests Suppressed	
Lygus bugs (west of Rocky Mountains) Whiteflies	3.8

Notes and Restrictions
Pre-Harvest Interval (PHI): **14 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per season: **22 fluid ounces/Acre** (0.28 lb. AI/A)
Maximum number of applications per crop season: **6**
Do not graze treated fields after any application of this product.

Applications
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground, aerial or chemigation application equipment.

POTATO

Pests Controlled	Rate fluid ounces/Acre
Aphids Colorado potato beetle Flea beetles Fleahoppers Psyllids	3.8

Notes and Restrictions
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per season: **15.0 fluid ounces/Acre** (0.19 lb. AI/A)

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

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TOBACCO

Pests Controlled	Rate fluid ounces/Acre
Aphids	2.0 - 4.0
Flea beetles Japanese beetle	4.0

Notes and Restrictions
Pre-Harvest Interval (PHI): **14 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per season: **22.0 fluid ounces/Acre** (0.28 lb. AI/A)

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

VEGETABLE and SMALL FRUIT CROPS
Recommended Applications

Apply specified rate per acre as foliar spray as pest populations *begin to build. Thorough uniform* coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations. 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.

FRUITING VEGETABLES[v]
Eggplant, Ground cherry, Okra[v], Pepper (including bell, chili, cooking, pimento and sweet), Tomato, Pepinos, Tomatillo

Pests Controlled	Rate fluid ounces/Acre
Aphids *Colorado potato beetle* Leafhoppers Whiteflies	3.8
Pepper weevil (Pepper only)	6.2

Notes and Restrictions
Pre-Harvest Interval (PHI): **0 days**
Minimum interval between applications: **5 days**
Maximum amount allowed per season: **18.8 fluid ounces/Acre** (0.24 lb. AI/A)

Applications
For all pests listed except pepper weevil, apply specified dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial application equipment. For pepper weevil, apply specified dosage of this product as a broadcast or directed spray by ground equipment to infested area, timing applications prior to a damaging population becoming established. Good coverage of foliage and fruit is necessary for optimal control. 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, Extension Specialist or crop advisor.

[v] Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

GLOBE ARTICHOKE

Pests Controlled	Rate fluid ounces/Acre
Aphids Leafhoppers	4.0 - 10.0

Notes and Restrictions
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **14 days**
Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)

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

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HEAD and STEM BRASSICA VEGETABLES[2]

Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cauliflower, Cavalo broccoli, Chinese (gai Lon) broccoli, Chinese (bok choy) cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, Rape greens, Turnip (tops or leaves)

LEAFY VEGETABLES[2]

Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (roquette), Chervil, Chrysanthemum (edible leaved and garland), Cilantro, 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), Radicchio (red chicory), Spinach (including New Zealand and vine (Malabar spinach, Indian spinach)), Watercress (commercial production only. Applications must not be made to native cress growing in streams or other bodies of water)[1], Watercress (upland)[1]

Pests Controlled	Rate fluid ounces/Acre
Aphids Flea beetles Whiteflies	3.8
Notes and Restrictions Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications: **5 days** Maximum amount allowed per season: **18.8 fluid ounces/Acre** (0.23 lb. AI/A) ***Applications*** Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product *may be applied through properly calibrated ground or aerial equipment.* [1]Use not permitted in California unless otherwise directed by supplemental labeling. [2]Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.	

LEGUMES VEGETABLES[2] **(except soybean, dry)**
Edible Podded and Succulent Shelled Pea[3] and Bean and Dried Shelled Pea and Bean
Bean (Lupinus spp., includes grain lupin, sweet lupin, white lupin, and white sweet lupin)
Bean (Phaseolus spp., includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean)
Bean (vigna spp., includes 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 (Pisum spp. Includes dwarf pea, edible 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)

Pests Controlled	Rate fluid ounces/Acre
Aphids Leafhoppers Whiteflies	3.5
Notes and Restrictions Pre-Harvest Interval (PHI): **7 days** Minimum interval between applications: **7 days** Maximum amount allowed per season **10.5 fluid ounces/Acre** (0.13 lb. AI/A) **Applications** *Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product* may be applied through properly calibrated ground or aerial equipment. [1]Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.	

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ROOT, TUBEROUS and CORM VEGETABLES[1/]

Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden)[2/], Brudock (edible)[2], Canna (edible, Queensland arrowroot), carrot[2], Cassava (bitter & sweet)[2/], Celeriac[2], Chayote (root), Chervil (turnip-rooted)[2/], Chicory[2/], Chufa, Dasheen (taro)[2], Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip[2], Radish[2/], Oriental radish (diakon)[2], Rutabaga[2], Salsify (black)[2], Salsify (oyster plant), Salsify (Spanish), Skirret, Sweetpotato, Tanier (cocoyam)[2/], Tumeric, Turnip[2/], Yam bean (jicama, manoic pea), Yam (true)[2/]

For recommended applications on potato see Field Crops section

Pests Controlled	Rate fluid ounces/Acre
Aphids Flea beetles Leafhoppers Whiteflies	3.5

Notes and Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **5 days**

Maximum amount allowed per season: **3.5 fluid ounces/Acre** *on radish;* **10.5 fluid ounces/Acre** (0.13 lb. AI/A) *on other crops*

Maximum applications of this product *per crop season:* **1** *on radish;* **3** *on other crops*

Applications

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

[1/]Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

[2]Tops or greens from these crops may be utilized for food or feed.

STRAWBERRY

Pests Controlled	Rate fluid ounces/Acre
Aphids Spittlebugs Whiteflies	3.8

Notes and Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **5 days**

Maximum amount allowed per season: **11.3 fluid ounces/Acre** (0.14 lb. AI/A)

Do not apply during bloom or within 10 days prior to bloom or when bees are actively foraging.

Applications

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

TREE, BUSH and VINE CROPS
Recommended Applications

Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations. 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.

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BUSHBERRY

Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Lingonberry, Sala

Pests Controlled	Rate fluid ounces/Acre
Aphids Leafhoppers/Sharpshooters	3.0 - 4.0
Japanese beetles (adults) Thrips	6.0 - 8.0
Blueberry maggot	8.0

Notes and Restrictions

Pre-Harvest Interval (PHI): **3 days**

Minimum interval between applications: **7 days**

Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.5 lb. AI/A)

Maximum number of applications of this product per crop season: **5**

Maximum application volume (water): 20.0 GPA - ground; 5.0 GPA - aerial.

Do not apply pre-bloom or during bloom or when bees are actively foraging.

Applications

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

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 what is listed.

Pests Controlled	Rate fluid ounces/100 gallons	Rate fluid ounces/Acre
Aphids Black fly Leafhoppers/Sharpshooters Leafminers Mealy bugs Scales Whiteflies	3.5 - 5.0 (for dilute applications)	10.0 - 20.0 (depending on tree size, target pest and infestation pressure)
Pests Suppressed		
Thrips	3.5 - 5.0	10.0 - 20.0

Notes and Restrictions

Pre-Harvest Interval (PHI): **0 days**

Minimum interval between applications: **10 days**

Maximum amount allowed per crop season: **40.0 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.

Applications

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control to results from ground application.

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

Where concentrated applications are appropriate, increase the spray solution concentration to apply an equivalent rate per acre to than applied in the diluted application. The 20.0 fluid ounce/Acre rate is based on full sized trees. This rate may be reduced *proportionally for smaller trees.*

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GRAPE

American bunch grape, Muscadine grape and Vinferous grape

Pests Controlled	Rate fluid ounces/Acre
Leafhoppers/Sharpshooters Mealybugs	3.0 - 3.8
Grapeleaf skeletonizer[v]	3.8

Notes and Restrictions

Pre-Harvest Interval (PHI): **0 days**

Minimum interval between applications: **14 days**

Maximum amount allowed per season: **7.6 fluid ounces/Acre** (0.1 lb. AI/A)

Applications

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

[v]Grapeleaf skeletonizer control can be expected from ground applications that provide thorough coverage of foliage. Aerial applications may provide suppression.

HOP

Pests Controlled	Rate fluid ounces/Acre
Aphids	8.0

Notes and Restrictions

Pre-Harvest Interval (PHI): **28 days**

Minimum interval between applications: **21 days**

Maximum amount allowed per season: **24.0 fluid ounces/Acre** (0.10 lb. AI/A)

Applications

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

PECAN[v]

Pests Controlled	Rate fluid ounces/Acre
Aphids (use higher rate for Black pecan aphid) Phylloxera *Spittlebugs*	3.5 - 7.0

Notes and Restrictions

Do not apply after shuck split.

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: **10 days**

Maximum amount allowed per season: **28.0 fluid ounces/Acre** (0.35 lb. AI/A)

Applications

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

[v]Use not permitted in California unless otherwise directed by supplemental labeling.

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POME FRUIT

Apple, Crabapple, Loquat, Mayhaw, Pear (including Oriental pear), Quince

Pests Controlled	*Rate fluid ounces/100 gallons*	*Rate fluid ounces/Acre*[1]
Leafhoppers	1.0 - 2.0	4.0 - 8.0
Aphids (except woolly apple aphid) Leafminers San Jose scale	2.0	8.0
FOR PEARS ONLY Mealybugs Pear psylla	5.0	20.0

Notes and Restrictions

Pre-Harvest Interval (PHI): **7 days**

Minimum interval between applications: ***10 days***

Maximum of this product allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)

Do not apply pre-bloom or during bloom or when bees are actively foraging.

Applications

Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control relative to results from ground application.

Leafhoppers - apply low rate for low to moderate populations of white apple leafhoppers and high rate for high populations or for other leafhopper species. Apply this product while most leafhoppers are in the nymphal stage.

Leafminer - for first generation leafminer control, make application as soon as pollination is complete and bees are removed from the orchard. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second 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 instar larvae.

Mealybugs - apply maximum gallonage for tree with ground equipment. Ensure good spray coverage of the trunk and scaffolding limbs or other resting sites of mealybugs.

Rosy apple aphid - apply prior to leafrolling caused by rosy apple aphid

San Jose scale - time applications to the crawler stage. Treat each generation.

[1]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 of large trees. To calculate the rate needed on smaller trees, multiply the pest specific rate (e.g. for aphid control, 2 fluid ounces/100 gallons) times the number of 100 gallons of spray solution required to thoroughly wet foliage just prior to the point of runoff, on one acre of the trees being treated. For concentrate sprays, apply the same amount of this product per acre as would be applied in a dilute spray based on tree size and foliage volume.

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STONE FRUIT

Apricot, Cherry (including sweet and tart), Nectarine, Peach, Plum (including Chickasaw, Damson and Japanese), Plumcot, Prune (fresh and dried)

Pests Controlled	Rate fluid ounces/100 gallons	Rate fluid ounces/Acre
Aphids Green June beetle Japanese beetle Leafhoppers/Sharpshooters Plant bugs Rose chafer San Jose scale	2.0	4.0 - 8.0
Cherry fruit fly (maggot of Eastern and Western)	2.0	8.0
Pests Suppressed		
Plum curculio Stink bugs	2.0	8.0

Notes and Restrictions for Apricot, Nectarine, Peach:
Pre-Harvest Interval (PHI): **0 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per season: **24.0 fluid ounces/Acre** (0.30 lb. AI/A)
Minimum application volume (water): 50 GPA - ground application; 25 GPA - aerial application.
Do not apply pre-bloom or during bloom or when bees are actively foraging.

Notes and Restrictions for Cherries, Plums, Plumcot, Prune:
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **10 days**
Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)
Minimum application volume (water): 50 GPA - ground application; 25 GPA - aerial application.
Do not apply pre-bloom or during bloom or when bees are actively foraging.

Applications
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control relative to results from ground application.

TROPICAL FRUIT

Acerola, Atemoya, Avocado, Birida, Black sapote, Canistel, Cherimoya, Custard apple, Feijoa, Llana, Jaboticaba, Guava, Longan, Lychee, Mamey sapote, Mango, Papaya, Passionfruit, Pulasan, rambutan, Sapodilla, Soursop, Spanish lime, Star apple, Starfruit, Sugar apple, Wax jambu

Pests Controlled	Rate fluid ounces/Acre
Aphids Leafhoppers/Sharpshooters Thrips Whiteflies	8.0
Pests Suppressed	
Scales	8.0

Notes and Restrictions
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **10 days**
Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)
Maximum number of applications per crop season: **5**
Do not apply pre-bloom or during bloom or when bees are actively foraging.

Applications
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control relative to results from ground application.

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OTHER CROPS Recommended Applications
Apply specified rate per acre as foliar spray as pest populations begin to build. Thorough uniform coverage is necessary to achieve optimal control. A spray adjuvant may be used to improve coverage. This product may not knockdown established and heavy insect populations. 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.

POPLAR/COTTONWOOD*
(includes members of the genus Populus grown for pulp or timber)

Pests Controlled	Rate fluid ounces/Acre
Aphids Leaf beetles	4.0 - 8.0

Notes and Restrictions
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **10 days**
Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)
Do not apply pre-bloom or during bloom or when bees are actively foraging.

Applications
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control relative to results from ground application.

*Use not permitted in California unless otherwise directed by supplemental labeling

CHRISTMAS TREE

Pests Controlled	Rate fluid ounces/Acre
Aphids Adelgids Sawflies	4.0 - 8.0

Notes and Restrictions
Pre-Harvest Interval (PHI): **7 days**
Minimum interval between applications: **7 days**
Maximum amount allowed per season: **40.0 fluid ounces/Acre** (0.50 lb. AI/A)

Applications
Apply specific dosage of this product as a broadcast or directed spray to infested area ensuring thorough coverage. This product may be applied through properly calibrated ground or aerial equipment. Aerial application of this product may result in slower activity and reduced control relative to results from ground application.

Gall-forming adelgids - time applications to coincide with full bud-swell or first bud-break of earliest bud-breaking trees. Once galls form spraying will be ineffective.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a *sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.*

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