

Alias TM 2F

GROUP 4A INSECTICIDE

For uses in pest management and suppression of insect vectored diseases and maintenance of plant health

ACTIVE INGREDIENT:	% BY WT.
Imidacloprid 1-[(6-Chloro-3-	
pyridinyl)methyl]-N-	
nitro-2-imidazolidimine	21.4%
OTHER INGREDIENTS:	78.6%
TOTAL	100.0%

Contains 2 pounds of imidacloprid per gallon.
SHAKE WELL BEFORE USING

EPA Reg. No. 264-758-66222 EPA Est. No. 3125-MO-001

STOP – Read the label before use KEEP OUT OF REACH OF CHILDREN CAUTION

For additional precautionary statements, see inside hooklet.

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES, CONTACT INFOTRAC: 1-800-535-5053
FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES, CONTACT PROSAR: 1-877-250-9291



Manufactured for:

Raleigh, NC 27609

Makhteshim Agan of North America, Inc. 4515 Falls of Neuse Road

MANA

ALI2F06060

Net Contents: 1 gallon

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 a 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	Take off contaminated clothing.	
CLOTHING:	Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.	
Have a product container or label with you when calling a poison control center of		

doctor, or going for treatment.

Note To Physician: No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

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 STATEMENT

 When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [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 interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Importance of Droplet Size:

An important factor influencing drift is droplet size. Small droplets (<150 - 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applications should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. 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. Risk of exposure to sensitive aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

Restrictions During Temperature Inversions:

Do not make ground applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Temperature inversions 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.

Mixing and Loading Requirements

To avoid potential contamination of groundwater, 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 area and potential surface to groundwater conduits such as field sumps, uncased well heads, sink-holes, or field drains.

No-Spray Zone Requirements for Soil Applications

Do not apply within 25 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 using Alias™ 2F on erodible soils, Best Management Practices for minimizing runoff should be employed. Consult your local Natural Resources Conservation Service for recommendations in your use area.

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.

AliasTM 2F Flowable Insecticide contains a Group 4A insecticide. Insect biotypes with acquired or inherent resistance to Group 4A may eventually dominate the insect population if Group 4A insecticides are used repeatedly as the predominant method of control for targeted species.

The active ingredient in Alias™ 2F belongs to the neonicotinoid chemical class. Insect pests resistant to other chemical classes have not shown cross-resistance to Alias™ 2F. In order to

maintain susceptibility to this class of chemistry in insect species with high resistance development potential, it is recommended that for each crop season: 1) only a single, soil application of AliasTM 2F be made; 2) foliar applications of products from this same class not be made following a long residual, soil application of AliasTM 2F, or other neonicotinoid products.

Other Group 4A, neonicotinoid products used as foliar treatments include: Actara, Assail, Calypso, Centric, Intruder, Leverage, Provado and Trimax.

Other Group 4A, neonicotinoid products used as soil treatments include: 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://www.irac-online.org/.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any 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

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. For spill, fire, or leak, contact INFOTRAC: 1-800-535-5053.

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.

Application Recommendations

Applications of Alias™ 2F Flowable Insecticide should direct product into the seed or rootzone of crop. Failure to place Alias™ 2F into root-zone may result in loss of control or delay in onset of activity. Alias™ 2F may be applied with ground or chemigation application. Do not apply with aerial application equipment. Broadcast, foliar applications are only recommended to seedling flats or trays, or where product is intended to be washed from foliage to soil prior to drying on foliage.

Optimum activity of Alias™ 2F results from applications to the root-zone of plants to be protected. The earlier Alias™ 2F is available to a developing plant, the earlier the protection begins. Alias™ 2F is continuously taken into the roots over a long period of time and the systemic nature of Alias™ 2F allows movement from roots through the xylem tissue to all vegetative parts of the plant. This results in extended residual activity of Alias™ 2F, the control of insects and the prevention and/or reduction of virus transmission or symptom expression, and plant health benefits. The rate of Alias™ 2F applied affects the length of the plant protection period. Higher rates are recommended when infestations occur later in crop development, or where pest pressure is continuous. Alias™ 2F will generally not control insects infesting flowers, blooms or fruit. Additional crop protection may be required for insects feeding in, or on these plant parts and for insects not listed in the crop-specific, pests controlled sections of this label. Additional, specific Alias™ 2F application recommendations are also provided in the crop-specific sections of this label.

Suppression, or less than complete control of certain diseases and insect pests including reduced feeding may also result from an Alias™ 2F applications. Complete control of these pests/diseases may require supplemental control measures.

Alias™ 2F use 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 Alias™ 2F to honey bees and other pollinators. Additional information on Alias™ 2F uses for these crops and other questions, may be obtained from the Cooperative Extension Service, PCAs, consultants or local Makhteshim Agan of North America, Inc. representatives.

AliasTM 2F should be pre-mixed with water or other appropriate diluent prior to application. Keep AliasTM 2F and water suspension agitated to avoid settling.

Do not apply more than 0.50 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 tank and with agitation add Alias™ 2F. Complete filling tank with balance of water needed. Maintain sufficient agitation during both mixing and application. Alias™ 2F may also be used with other pesticides and/or fertilizer solutions. Please see Compatibility Note below. When tank mixtures of Alias™ 2F 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, AliasTM 2F and other flowable (suspension concentrate) products second, and 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 mixture before adding Alias™ 2F to the spray or mix tank. Add proportionate amounts of 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 redisperse indicates an incompatible mixture that should not be used. For further information, contact your local Makhteshim Agan of North America, Inc. representative.

CHEMIGATION - DIRECTIONS FOR USE

Types of Irrigation Systems

Chemigation applications of Alias™ 2F may only be made to crops through chemigation systems as specified in crop-specific Application sections and only through low-pressure systems unless specifically recommended for a given crop. Do not apply Alias™ 2F through any other type of irrigation system.

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 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 manually 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 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.

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, 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

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 - Alias™ 2F Flowable Insecticide

COTTON

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Cotton aphid Thrips Plant bugs Whiteflies	1.3	17.0 - 21.1 (Depending on row-spacing)

Notes and Restrictions:

Maximum Alias™ 2F allowed per crop season: 21.1 fluid ounces/Acre (0.33 lb ai/Acre)

Regardless of formulation or method of application, apply no more than 0.5 lb active ingredient of Alias™ 2F, Provado®, Trimax or Leverage per acre per season, including seed treatment as Gaucho, soil <u>and</u> foliar uses. Do not apply more than a total of 6 applications of the active ingredient per season. Do not graze treated fields after any application of Alias™ 2F. Please see Resistance Management section of this label.

Applications:

Apply specified dosage of Alias™ 2F Flowable Insecticide in one of the following methods:

- 1. In-furrow spray during planting directed on or below seed;
- 2. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting;
- 3. Chemigation into root-zone through low-pressure drip or trickle irrigation.

POTATO

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Aphids Leafhoppers Colorado potato beetle Potato psyllid Flea beetles	0.9 - 1.3	13.0 - 20.0
Pests / Diseases Suppressed		
Symptoms of: Potato leaf roll virus (PLRV) Potato yellows Net necrosis (PLRV) Wireworms (with in-furrow spray at-planting)	0.9 - 1.3	13.0 - 20.0

Notes and Restrictions:

Maximum Alias™ 2F allowed per crop season: 20.0 fluid ounces/Acre (0.31 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. In-furrow spray during planting directed on seed pieces or seed potatoes:
- 2. Subsurface side-dress on both sides of the row covered with 3 or more inches of soil:
- 3. Narrow band spray at ground cracking directly over the row during hilling covered with 3 or more inches of soil;
- 4. Narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting. For effective pest control or suppression, Alias™ 2F applications 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 Alias™ 2F may be made in a 2 to 4 inch band (width of planter shoe opening) and completely covered.

FIELD CROPS (CONTINUED) Recommended Applications - Alias™ 2F Flowable Insecticide

POTATO*

(Seed Piece Treatment)

Pests C	ontrolled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre**
Aphids Colorado potato beetle Flea beetles Leafhoppers	Potato psyllid Wireworms (seed piece protection)	0.4 - 0.8	8.0 - 16.0
Pests / Diseas	es Suppressed		
Symptoms of: Potato leaf roll virus (PLF Potato yellows Net necrosis (PLRV)	av)	0.8	16.0

Notes and Restrictions:

Maximum Alias™ 2F allowed per crop season: 20.0 fluid ounces/Acre (0.31 lb Al/Acre)

Do not use treated seed-pieces for food, feed, or fodder. Do not apply any subsequent application of Alias™ 2F (in-furrow), Gaucho®, Leverage® or Provado® following an Alias™ 2F seed-piece treatment.

Application:

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 Alias™ 2F. Agitate or stir spray solution as needed. Fungicidal or inert absorbent dusts may be applied after Alias™ 2F application. 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 Alias™ 2F treated seed-pieces to sunlight and in accordance with the recommendation of your local Extension specialist.

Consult your local Makhteshim Agan of North America, Inc. representative or crop protection product dealer for information relevant to your area.

- * Use not permitted in CA unless otherwise directed by supplemental labeling.
- ** Based on a seeding rate of 2000 lbs/acre.

FIELD CROPS (CONTINUED) Recommended Applications - Alias™ 2F Flowable Insecticide

TOBACCO

Pests Controlled	Rate fluid ounces/1000 plants (as seedling tray drench)	Rate fluid ounces/1000 plants (in-furrow or transplant-water)
Aphids Flea beetles	1.0	1.4
Mole crickets Whiteflies Wireworms	1.4 - 2.8	1.8 - 2.8
Pests / Diseases Suppressed		
Cutworms Symptoms of: Tomato spotted wilt virus (TSWV)	1.4 - 2.8	1.8 - 2.8

Notes and Restrictions:

Pre-Harvest Interval (PHI): 14 days

Maximum Alias™ 2F allowed per crop season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F 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 Alias™ 2F from foliage into potting media. Failure to wash Alias™ 2F from foliage may result in a reduction in pest control. Transplants should be handled carefully during setting to avoid dislodging treated potting media from roots.
- 2. In-furrow spray or transplant-water drench during setting.
- 3. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment.

Important Note: Proper tray drench applications of Alias™ 2F have been shown to be the most efficacious method of application. However, the specified rate of Alias™ 2F may be applied as 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 Alias™ 2F into the plant and a delay in control.

CUCURBIT VEGETABLES 1/

Including: 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, wegetable marrow and zucchini, and winter squash types such as acorn squash and spaghetti squash), Watermelon (includes hybrids and/or varieties of Citrullus lanatus)

Field application recommendations. See details on next page for additional planthouse recommendations.		
Pests Controlled	Rate fluid ounces/Acre	
Aphids		
Cucumber beetles		
Leafhoppers	16.0 - 24.0	
Thrips (foliage-feeding thrips only)		
Whiteflies		
Pests / Diseases Suppressed		
Bacterial wilt (as vectored by various cucumber beetles) Leaf silvering resulting from whitefly feeding	16.0 - 24.0	

Notes and Restrictions:

Pre-Harvest Interval (PHI): 21 days

Maximum Alias™ 2F allowed per application: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. In-furrow spray directed on or below seed;
- Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation within 24 hours of application;
- 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting;
- 5. Post-seeding drench, transplant-water drench, or hill drench:
- 6. Subsurface side-dress on both sides of each row. Alias™ 2F must be incorporated into root-zone.
- ¹/ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

CUCURBIT VEGETABLES 1 (CONTINUED)

Planthouse Application Recommendations*	
Pests Controlled	Rate fluid ounces/1000 Plants
Aphids Whiteflies	0.1

Notes and Restrictions:

Maximum amount Alias™ 2F applied in the planthouse: **0.1 fluid ounce** (0.00156 lb Al)/**1000 plants.**

Maximum number Alias™ 2F applications in planthouse: 1

Applications:

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:

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

The application made in the planthouse will only provide short-term protection and 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 should 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 Alias™ 2F applied to seedling flats. It is therefore recommended to treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

 $^{\scriptscriptstyle 1/}$ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

*Use not permitted in CA unless otherwise directed by supplemental labeling.

GREENHOUSE VEGETABLES 1/

(Mature plants in production greenhouses)
Cucumber, Tomato, only

Pests Controlled	Rate fluid ounces/1000 Plants
Aphids Whiteflies	1.4

Notes and Restrictions:

Pre-Harvest Interval (PHI): 0 days

Maximum number Alias™ 2F applications per crop season: 1.

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.

Applications should be made 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 (*Orius* sp.) can occur when Alias[™] ZF is applied.

Many varieties of vegetables have been tested for tolerance to Alias™ 2F and show good safety. However, certain varieties may show more sensitivity to Alias™ 2F. Therefore, treatment of a few plants is recommended before treating the whole greenhouse.

¹/₂ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

FRUITING VEGETABLES 1/2

Including: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet) Tomato, Pepinos, Tomatillo

Pests Controlled	Rate fluid ounces/Acre
Aphids	Okra and Pepper
Colorado potato beetle	16.0 - 32.0
Flea beetles	
Leafhoppers	Other Crops
Thrips (foliage-feeding thrips only)	16.0 - 24.0
Whiteflies	
Pests / Diseases Suppressed	
Symptoms of:	Okra and Pepper
Tomato mottle virus	16.0 - 32.0
Tomato spotted wilt virus	Other Crops
Tomato yellow leaf curl virus	16.0 - 24.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 21 days

Maximum Alias™ 2F allowed on pepper and okra crops per application: 32.0 fluid ounces/Acre (0.5 lb Al/Acre)

Maximum AliasTM 2F allowed on other fruiting vegetable crops per application: **24.0 fluid ounces/Acre** (0.38 lb Al/Acre) **Annications:**

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. In-furrow spray directed on or below seed:
- Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation within 24 hours of application;
- 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting;
- 5. Post-seeding drench, transplant-water drench, or hill drench;
- 6. Subsurface side-dress on both sides of each row. Alias™ 2F must be incorporated into root-zone.
- ¹ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

FRUITING VEGETABLES 1 (CONTINUED)

Including: Eggplant, Ground cherry, Okra, Pepper (including bell, chili, cooking, pimento and sweet) Tomato, Pepinos, Tomatillo

Planthouse Application Recommendations*	
Pests Controlled	Rate fluid ounces/1000 Plants
Aphids Whiteflies	0.1

Notes and Restrictions:

Maximum amount Alias™ 2F applied in the planthouse: 0.1 fluid ounce (0.00156 lb Al)/1000 plants.

Maximum number Alias™ 2F applications in planthouse: 1

Applications:

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:

- Uniform, broadcast high-volume foliar spray, followed immediately by sufficient overhead irrigation to wash AliasTM 2F from foliage into poting media without loss of gravitational liquid from the bottom of the tray. Failure to wash AliasTM 2F from foliage may result in reduced cest control:
- Injection into overhead irrigation system, using adequate volume to thoroughly saturate soil media without loss of gravitational solution from the bottom of the tray.

The application made in the planthouse will only provide short-term protection and 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 should be handled carefully during setting to avoid dislodging treated potting media from roots.

Important Note: Not all varieties of fruiting vegetables have been tested for tolerance to Alias™ 2F applied to seedling flats. It is therefore recommended to treat a small number of plants and confirm tolerance for 7 days prior to treating entire planthouse.

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

*Use not permitted in CA unless otherwise directed by supplemental labeling.

HEAD and STEM BRASSICA VEGETABLES 1/2

Including: 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 (leaves)

LEAFY VEGETABLES 1

Including: 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), Raddicchio (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). Watercress (upland)

Pests Controlled	Rate fluid ounces/Acre (on 36 inch rows)
Aphids Whiteflies	10.0 - 24.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 21 days

Maximum Alias™ 2F allowed per application: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. In-furrow spray directed on or below seed;
- Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation within 24 hours of application;
- 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting;
- 5. Post-seeding drench, transplant-water drench, or hill drench;
- Subsurface side-dress on both sides of each row. Alias™ 2F must be incorporated into root-zone.
- [⊥] Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEAFY PETIOLE VEGETABLES^{1/}

Including: Cardoon, Celery, Celtuce, Chinese celery (fresh leaves and stalk only), Florence fennel (including sweet anise, sweet fennel, Finocchio), Rhubarb, Swiss chard

Pests Controlled	Rate fluid ounces/Acre
Aphids	
Leafhoppers	10.0 - 24.0
Whiteflies	

Notes and Restrictions:

Pre-Harvest Interval (PHI): 45 days

Maximum Alias™ 2F allowed per application: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment:
- 2. In-furrow spray directed on or below seed;
- Narrow (2" or less) surface band spray over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrication within 24 hours of application:
- 4. Narrow band spray directly below eventual seed row in bedding operation 14 or fewer days before planting;
- 5. Post-seeding drench, transplant-water drench, or hill drench:
- Subsurface side-dress on both sides of each row. Alias™ 2F must be incorporated into root-zone.
- ¹/₂ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

LEGUME VEGETABLES 1/ except soybean, dry

Edible Podded and Succulent Shelled Pea 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-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 Thrips (foliage-feeding thrips only) Whiteflies	16.0 - 24.0	
Pests / Diseases Suppressed		
Symptoms of: Bean common mosaic virus (BCMV) Bean golden mosaic virus (BGMV) Beet curly top hybrigeminivirus (BCTV)	16.0 - 24.0	

Notes and Restrictions:

Pre-Harvest Interval (PHI): 21 days

Maximum Alias™ 2F allowed per crop season: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. In-furrow spray at planting directed on or below seed:
- 3. In a narrow (2" or less) surface band over seed-line during planting incorporated to a depth of 1 to 1 1/2" with sufficient irrigation within 24 hours following application:
- 4. In a narrow band directly below the eventual seed row in a bedding operation 7 or fewer days before planting:
- 5. As a post-seeding drench, transplant drench, or hill drench.
- ¹ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

ROOT VEGETABLES 1/

Including: Beet (garden)^a, Burdock (edible)^a, Carrot^a, Celeriac^a, Chervil (turnip-rooted)^a, Chicory^a, Ginseng, Horseradish, Parsley (turnip-rooted), Parsnip^a, Radish^a, Oriental radish (diakon)^a, Rutabaga^a, Salsify (oyster plant), Salsify (black)^a, Salsify (Spanish), Skirret and Turnip^a.

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Aphids Flea beetles Leafhoppers Whiteflies	0.7 - 1.7	10.0 - 24.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 21 days

Maximum Alias™ 2F allowed per crop season: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Maximum Alias™ 2F applications per crop season: 1

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. In-furrow spray (rate specified per 1000 row-feet) or, shanked-in 1 to 2 inches below seed depth during planting;
- 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.

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. Alias™ 2F rates less than 0.7 fluid ounces/1000 row-feet will not provide adequate residual pest control. Alias™ 2F treated crops grown on very high organic matter soils (muck) may also require additional pest management control.

- 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.

TUBEROUS and CORM VEGETABLES 1/2

Including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Canna (edible, Queensland arrowroot), Cassava (bitter & sweet)*, Chayote (root), Chuta, Dasheen (taro)*, Ginger, Leren, Sweetpotato, Tanier (cocoyam)*, Turmeric, Yam bean (jicama, manoic pea), Yam (true)* (For recommended applications on potato see Field Crops section)

Pests Controlled	Rate fluid ounces/1000 row-feet	Rate fluid ounces/Acre
Aphids Flea beetles Leafhoppers Whiteflies	0.7 - 1.7	10.0 - 24.0

Notes and Restrictions:

Pre-Harvest Interval (PHI) from planting application: 3 days (leaves); 125 days (corms)

Maximum Alias™ 2F allowed per crop season: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Maximum Alias™ 2F applications per crop season: 1

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- In-furrow spray (rate specified per 1000 row-feet) over planting material (hulis) or shanked-in 1 to 2 inches below hulis depth at planting:
- 2. Side-dress not more than 0.6 fluid ounces/1000 row-feet no later than 45 days after-planting. Observe same PHI as above.

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. Alias™ 2F rates less than 0.7 fluid ounce/1000 row-feet may not provide adequate residual pest control. Alias™ 2F treated crops grown on very high organic matter soils (muck) may also require additional pest management control.

- ¹/₂ Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.
- ² Tops or greens from these crops <u>may</u> be utilized for food or feed.

STRAWBERRY 1/2/

Annual And Perennial Crops		
Pests Controlled	Rate fluid ounces/Acre	
Aphids Whiteflies	24.0 - 32.0	

Notes and Restrictions:

Pre-Harvest Interval (PHI): 14 days

Maximum Alias™ 2F allowed per crop season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment after plants are established or on perennial crops in early spring prior to bud opening;
- 2. As a plant material or plant hole treatment just prior to, or during transplanting.

The rate applied affects the length of control. Use higher rates where infestations may occur later in crop development or where pest pressure is continuous.

Post-harvest Use on Perennial Crops

rost-lial vest ose on refermal crops		
Pests Controlled	Rate fluid ounces/Acre	
White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle, Oriental beetle)	16.0 - 24.0	

Notes and Restrictions:

Pre-Harvest Interval (PHI): 14 days

Maximum Alias™ 2F allowed per crop season: 24.0 fluid ounces/Acre (0.38 lb Al/Acre)

Applications:

Apply a single application **post harvest to coincide with renovation of strawberry fields** and during active egg-laying period of beetles. Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. As a ground spray via boom or backpack sprayer in a minimum of 20 gallons of water per acre;
- As a row-band spray using an adjusted amount of product based on the treated row band area in proportion to the amount required per full acre. The bandwidth should be equivalent to the width of the anticipated fruiting bed;
- 3. As a chemigation application with 600 to 1000 gallons of water followed by 0.10 to 0.25 inch irrigation.

Important Note: 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 AliasTM 2F into egg-deposition zone may result in decreased activity of beetle grubs.

- ^{1/} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.
- ² Do not use both application methods on the same crop in the same season.

SUGARBEET 1/ (for use only in CA)

Pests Controlled	Rate fluid ounces/Acre	
Aphids Leafhoppers Whiteflies Flea beetles	6.0 - 12.0	
Pests / Diseases Suppressed		
Symptoms of: Western yellows / Beet curly top hybrigeminivirus (BCTV)	6.0 -12.0	

Notes and Restrictions:

Maximum Alias™ 2F allowed per crop season: 12.0 fluid ounces/Acre (0.18 lb Al/Acre)

Maximum imidacloprid allowed per season: 0.18 lb Al/Acre (from any formulation) on any row spacing

Applications:

Apply specified dosage of Alias™ 2F in the following method:

 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.

The low rate may be applied to aid establishment of stands in whitefly areas, or for early season control of the other pests listed.

^{1/2} Not for use on crops grown for seed unless allowed by state-specific supplemental labeling.

ALIAS™ 2	ALIAS™ 2F FLOWABLE INSECTICIDE CONVERSION CHART FOR LINEAR APPLICATION							
RATE fluid ounces/Acre		RATE fluid ounces/1000 row-feet Based on <u>average</u> row spacing (in inches):						
	10	15	20	25	30	35	40	45
10	0.19	0.29	0.38	0.48	0.57	0.67	0.76	0.86
12	0.23	0.34	0.46	0.57	0.69	0.80	0.92	1.03
14	0.27	0.40	0.54	0.67	0.80	0.94	1.07	1.21
16	0.31	0.46	0.61	0.77	0.92	1.07	1.22	1.38
18	0.34	0.52	0.69	0.86	1.03	1.21	1.38	1.55
20	0.38	0.57	0.76	0.96	1.15	1.34	1.53	1.72
22	0.42	0.63	0.84	1.05	1.26	1.47	1.68	1.89
24	0.46	0.69	0.92	1.15	1.38	1.61	1.84	2.07
26	0.50	0.75	0.99	1.24	1.49	1.74	1.99	2.24
28	0.54	0.80	1.07	1.34	1.61	1.87	2.14	2.41
30	0.57	0.86	1.15	1.43	1.72	2.01	2.29	2.58
32	0.61	0.92	1.22	1.52	1.84	2.14	2.45	2.75

Important Note: The Alias[™] 2F rate applied affects the length of control and to a considerable extent, the degree of control or effect. Row-spacing X Alias[™] 2F rate combinations in shaded blocks may not provide adequate residual pest control and are not recommended for long-term, residual control. Use higher labelled rates where infestations may occur later in crop development or where pest pressure is continuous. Makhteshim Agan of North America, Inc. offers no warranty for use of Alias[™] 2F at rates below 0.7 fluid ounce/1000 row-feet.

BUSHBERRY

Including: Blueberry, Currant, Elderberry, Gooseberry, Huckleberry, Juneberry, Ligonberry, Salal

Pests Controlled	Rate fluid ounces/Acre
Japanese beetle (adults, feeding on foliage)	
White grub complex (grubs of Asiatic garden beetle, European and Masked chafer, Japanese beetle and Oriental beetle)	16.0 - 32.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 7 days

Maximum Alias™ 2F allowed per season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment:
- 2. 18-inch band on each side of the row followed with 0.25 inch of irrigation immediately after application.

For optimal grub control, apply Alias™ 2F to control 1st or 2nd instar larvae. Application may be made post-bloom up to 7 days prior to harvest, or post-harvest until October 1st. For optimum control of Japanese beetle larvae, make applications from June 1 to July 15. Do not apply during bloom.

Application to grass covered rows, row middles, drive lanes, headlands, and other grassy areas in and around the berry field will control resident grub populations. Applications directed to the root-zone will help protect berry plant roots from grub feeding.

Apply Alias™ 2F to moist soil. If necessary, apply one hour of irrigation water immediately before application of Alias™ 2F. To ensure maximum efficacy, 1/2 to 1 inch of irrigation water or rainfall should be applied or received within 24 hours of application of Alias™ 2F to facilitate movement into the soil and into the root-zone.

CITRUS (Containerized)

Including: 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 cutivars and/or hybrids of these.

Pests Controlled	Rate mL/ft³ container media	
Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/sharpshooters Mealybugs Scales Whiteflies	0.75	
Citrus root weevil (larval complex)	1.25 - 2.50	
Pests / Diseases Suppressed		
Citrus thrips	2.50	

Application:

Determine volume of container and calculate dosage necessary to treat container. Apply calculated dosage of Alias™ 2F 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 should be made at planting prior to insect infestation. Retreat if necessary. For control of larvae of the citrus root weevil complex, application should be made prior to neonate larvae entering potting media. Utilize higher dosage for heavy infestations.

CITRUS (Field)

Including: 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.

Pests Controlled	Rate fluid ounces/Acre
Aphids Asian citrus psyllid Black fly Citrus leafminer Leafhoppers/sharpshooters Mealybugs Scales Termites (FL only) Whiteflies	16.0 - 32.0
Pests / Diseases Suppressed	
Symptoms of: Citrus tristeza virus (CTV) through vector control Citrus yellows Thrips (foliage feeding thrips only)	32.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 0 day

Maximum Alias™ 2F allowed per season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment. For optimum results, apply to newly planted trees or those previously trained to drip, trickle or micro-sprinkler irrigation. Soil should be lightly pre-wetted to break soil surface tension prior to applications of Alias™ 2F. Chemigation application can be made separate to normal irrigation but followed by 10 to 20 minutes of additional watering to move Alias™ 2F into root-zone. Allow 24 hours before initiating subsequent irrigations:
- Soil surface band spray on both sides of the tree. Bands should 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:
- 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 recommended for trees up to 8 feet tall;
- 4. 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.

CRANBERRY

Pests Controlled	Rate fluid ounces/Acre
Rootgrubs (Scarabaeidae) Rootworms (Chrysomelidae)	16.0 - 32.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 30 days

Maximum Alias™ 2F allowed per season: **32.0 fluid ounces/Acre** (0.50 lb Al/Acre)

Do not apply during bloom.

Applications:

Apply Alias™ 2F to moist soil. Apply specified dosage of Alias™ 2F in one of the following methods:

As a soil spray (ground application) directed to the root and crown area using a minimum of 20 gallons of water per acre;
 As a chemiqation application with 600 to 1000 gallons of water.

Immediately upon application, Alias[™] 2F must be incorporated into root-zone by 0.1 - 0.3 inch water/Acre, either with the chemigation application or through irrigation/rainfall if not applied through chemigation. Inadequate incorporation within 24 hours of application may result in reduced control.

Rootgrubs and Rootworms

Best control may be achieved when application is made post-bloom immediately after bees are removed. Applications should target early instar larvae.

Alias™ 2F has not been tested for crop response in tank mixes with other registered fungicides or insecticides. If tank mixing is desired, premix a sample of the Alias™ 2F and the desired fungicide or insecticide partner at labeled rates and apply to a small area. Evaluate crop response within 48 hours and for at least two weeks prior to utilizing the tank mix on larger acreace. If crop injury results from the premix test, do not apply the tank mix to larger acreace.

GRAPE

Including: American bunch grape, Muscadine grape and Viniferous grape

Pests Controlled	Rate fluid ounces/Acre
Mealybugs Leafhoppers/sharpshooters <i>Phylloxera*</i> spp	16.0 - 32.0
Pests / Diseases Suppressed	
Pierce's disease	24.0 - 32.0

Notes and Restrictions:

Pre-Harvest Interval (PHI): 30 days

Maximum Alias™ 2F allowed per season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation;
- 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.

For optimum results, make application(s) between bud-break and the pea-berry stage.

*Repeated and regular use of AliasTM 2F over several, consecutive growing seasons controls existing *Phylloxera* infestations over time or prevents *Phylloxera* from becoming established.

HOP1/

Pests Controlled	Rate fluid ounces/Acre
Aphids	19.2

Notes and Restrictions:

Pre-Harvest Interval (PHI): 60 days

Maximum Alias™ 2F allowed per season: 19.2 fluid ounces/Acre (0.30 lb Al/Acre)

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. Subsurface side-dress shanked into the root-zone on both sides of the plants followed by irrigation;
- 3. Hill drench in sufficient water to insure incorporation into the root-zone followed by irrigation.

PECAN

Pests Controlled	Rate fluid ounces/Acre
Aphids Twolined spittlebug	16.0 - 32.0
Pests / Diseases Suppressed	
Pecan scab (from reduction in honeydew denosition)	16.0 - 32.0

Notes and Restrictions:

Maximum Alias™ 2F allowed per season: 32.0 fluid ounces/Acre (0.50 lb Al/Acre)

Applications can be made from May 15 up to July 15. Applications made later in the season may result in reduced efficacy.

Apply product to slightly moist soil and allow soil to dry prior to additional irrigation.

Applications:

Apply specified dosage of Alias™ 2F in one of the following methods:

- 1. Chemigation into root-zone through low-pressure drip, trickle, micro-sprinkler or equivalent equipment;
- 2. Emitter or spot application in a minimum of 4 fluid ounces of mixture per emitter site;
- 3. Subsurface side-dress shanked into the root-zone near emitter line. Treat distance, wetted by the emitter set of each tree.

^{1/} Use not permitted in California unless otherwise directed by supplemental labeling.

WARRANTY STATEMENT

MAKHTESHIM AGAN OF NORTH AMERICA warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of MAKHTESHIM AGAN OF NORTH AMERICA. To the extent allowed by law. MAKHTESHIM AGAN OF NORTH AMERICA shall not be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except as expressly provided herein, MAKHTESHIM AGAN OF NORTH AMERICA makes no warranties, guarantees, or representations of any kind, either expressed 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 particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at MAKHTESHIM AGAN OF NORTH AMERICA's election, the replacement of this product.

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Alias 2F(264-758-66222)(Sub app 6-06-05)

ALIAS™ 2F Flowable Insecticide

For uses in pest management and suppression of insect vectored diseases and maintenance of plant health.

ACTIVE INGREDIENT:

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro	-2-
imidazolidinimine	
OTHER INGREDIENTS:	8.6%

Contains 2 pounds of imidacloprid per gallon. SHAKE WELL BEFORE USING

100.0%

EPA Reg. No. 264-758-66222

STOP - Read the label before use KEEP OUT OF REACH OF CHILDREN

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES, CONTACT INFOTRAC: 1-800-535-5053

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES, CONTACT PROSAR: 1-877-250-9291

FIRST AID

TINGTAID	
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 a 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

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

Note To Physician: No specific antidote is available. Treat the patient symptomatically.

GROUP 4A INSECTICIDE

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

FOR ADDITIONAL PRECAUTIONARY STATEMENTS:

See attached label booklet:

Personal Protective Equipment (PPE).

User Safety Recommendations, and Environmental Hazards

DIRECTIONS FOR USE: See attached booklet. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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. For spill, fire, or leak, contact INFOTRAC: 1-800-535-5053.

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.



Manufactured for:

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