



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

89167-73

Date of Issuance:

7/16/2020

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

AX DIFLU 2L IGR

Name and Address of Registrant (include ZIP Code):

Axion AG Products, LLC
 1880 Fall River Drive, Suite 100
 Loveland, CO 80538

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 under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration 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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Signature of Approving Official:

Sincerely,

Shanta Adeeb, Product Manager 10
 Invertebrate-Vertebrate Branch 2
 Registration Division (7505P)
 Office of Pesticide Programs

Date:

7/16/2020

EPA Form 8570-6

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 02/28/2020
- Alternate CSF 1 dated 02/28/2020

If you have any questions, please contact Briana Hanlon by phone at (703) 347-8337, or via email at hanlon.briana@epa.gov.

Enclosure

Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear.]

{BOOKLET FRONT PANEL LANGUAGE}

RESTRICTED USE PESTICIDE

Due to toxicity to aquatic invertebrate animals. For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

DIFLUBENZURON | GROUP 15 | INSECTICIDE

AX DIFLU 2L IGR

[Contains diflubenzuron, the active ingredient used in [Dimilin®] [2L] [and] [Micromite®] [2L].]

[Insect Growth Regulator]

[Aqueous Flowable]

[For use on **field and row crops** (artichoke, barley, oats, triticale and wheat; cotton; leafy brassica subgroup 5B and turnip greens; peanut; pepper; rice; soybean (except California); turfgrass (for use on sod farms only)), **orchard crops** (citrus crop group 10-10*; pear; stonefruit (excluding cherries); tree nuts (group 14-12)) and **non-crop uses** (livestock and poultry premises; grassland; non-crop areas)]

*In California – only approved for use on orange, grapefruit, tangerine, pummelo and their hybrids.

[Not for Homeowner/Residential Use]

| ACTIVE INGREDIENT(S): | (% by weight) |
|---|---------------|
| Diflubenzuron: [((4-Chlorophenyl)amino)carbonyl]-2,6-difluorobenzamide* | 22.0% |
| OTHER INGREDIENTS: | 78.0% |
| TOTAL: | 100.0% |

*Contains 2 lbs. diflubenzuron per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

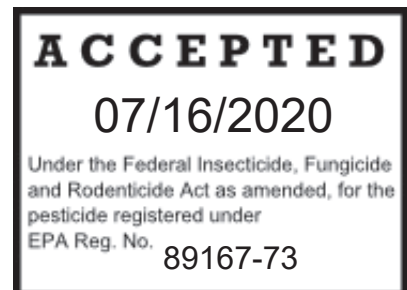
See inside label booklet for First Aid, Precautionary Statements and Directions for Use.

EPA Reg. No.: 89167-73

EPA Est. No.:

Net Contents: ___ Gal

Manufactured For:
AXION AG PRODUCTS, LLC
1880 FALL RIVER DRIVE, SUITE 100
LOVELAND, CO 80538



[[AX DIFLU 2L IGR] is not manufactured, or distributed by Arysta LifeScience North America LLC, seller of [Dimilin®] [2 L] [and] [Micromite®] [2 L].]

{LANGUAGE INSIDE BOOKLET}

| FIRST AID | |
|---|---|
| If swallowed: | <ul style="list-style-type: none">• 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 on skin or clothing: | <ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice. |
| If inhaled: | <ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice. |
| If in eyes: | <ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• 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. For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-424-9300 | |

**For Chemical Emergency:
Spill, Leak, Fire, Exposure, or Accident,
Call CHEMTREC Day or Night
1-800-424-9300**

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and Other Handlers Must Wear:

- A long-sleeved shirt & long pants
- Chemical-resistant gloves, made of barrier laminate or butyl rubber ≥14 mils or nitrile rubber ≥14 mils or neoprene rubber ≥14 mils or natural rubber ≥14 mils or polyethylene or polyvinyl chloride (PVC) ≥14 mils or Viton ≥14 mils, when mixing and loading and also when using hand-held equipment
- shoes plus socks.

Mixers and Loaders Using Fixed-Wing Aircraft Must Wear:

- A long-sleeved shirt and long pants
- Chemical-resistant gloves, made of barrier laminate or butyl rubber ≥14 mils or nitrile rubber ≥14 mils or neoprene rubber ≥14 mils or natural rubber ≥14 mils or polyethylene or polyvinyl chloride (PVC) ≥14 mils or Viton ≥14 mils
- shoes plus socks
- Wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; **OR** a NIOSH-approved elastomeric particulate respirator with any R or P filter; **OR** a NIOSH-approved power air purifying respirator with HE filters.

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

When handlers use closed systems, 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

Users should:

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to terrestrial juvenile insects and aquatic invertebrates/mollusks/insects. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate. This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion control practices will reduce this product's contribution to surface water contamination.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar application
- Ingestion of residues in nectar and pollen when the pesticide is applied as a foliar application

When Using This Product, Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in reduced immature bee viability.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow this product to come in contact with an oxidizing agent such as potassium permanganate. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE RESTRICTED USE PESTICIDE

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.

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, such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or neoprene rubber ≥ 14 mils or natural rubber ≥ 14 mils or polyethylene or polyvinyl chloride (PVC) ≥ 14 mils or Viton ≥ 14 mils, and
- shoes plus socks

INSTRUCTIONS AND INFORMATION

RUNOFF

AX DIFLU 2L IGR has a potential for runoff, which can occur up to several months or more after use. Runoff containing this product is more likely to occur in soils that have shallow water tables or are poorly draining.

The following will decrease the likelihood of contaminating water from runoff:

- a well maintained, level vegetative buffer strip situated between application areas and surface water features (i.e., ponds, springs, streams)
- application of product avoided if forecasts predict rainfall within 48 hours
- practices that foster sound erosion control

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use fine or coarser droplet size (ASABE S572.1).
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 miles per hour at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Airblast applications:

- Sprays must be directed into the canopy.
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Users must turn off outward pointing nozzles at row ends and when spraying outer rows.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- Applicators are required to use fine or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- Adjust Nozzles - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.**

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift

Handheld Technology Applications:

- Take precautions to minimize spray drift.

PRODUCT INFORMATION

AX DIFLU 2L IGR is an insect growth regulator, whose mode of action disrupts the regular molting process of insect larvae. It is effective against Lepidoptera and Diptera species and a wide variety of listed insect pests, and performs well when used in IPM programs.

USE RESTRICTIONS

- Do not apply **AX DIFLU 2L IGR** to water bodies where swimming is likely to occur.
- For Field Crops, Row Crops, Orchard Uses, Grassland, Non-crop Areas: Do not apply within 25 feet by ground or 150 feet by air of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. All applications must include a 25 foot vegetative buffer strip within the buffer zone to decrease runoff.
- **ROTATIONAL CROPS:** Unless diflubenzuron is registered for use on a particular crop, wait one month after last application to plant food or feed crops in soils treated with **AX DIFLU 2L IGR**.
- Due to mode of action, insects could take several days following application to show visible effects of **AX DIFLU 2L IGR**.
- **Do not apply through irrigation systems (chemigation) in the state of California.**

APPLICATION INSTRUCTIONS

TANK MIXING: It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Mixing Directions – if used with water

- Fill a clean spray tank with half of the amount of water required for treatment
- Begin agitation and add appropriate amount of **AX DIFLU 2L IGR** to spray tank
- Add second half of water while maintaining agitation
- If permitted for the use site, add the proper quantity of oil slowly into the mixing tank. Making sure to use at least 2 parts of water to one part of oil will help avoid development of an invert emulsion

Mixing Directions – if used without water

Always evaluate any potential mixture for compatibility and sprayability. To ensure thorough mixing of **AX DIFLU 2L IGR** with insecticides or other carriers, premix ingredients in a nurse tank before transferring into appropriate aerial or ground ULV application equipment. If a nurse tank is not available, or unable to simultaneously mix:

- Fill a clean tank with required amount of oil and/or oil-based insecticide
- Begin agitation and add appropriate amount of **AX DIFLU 2L IGR** to spray tank
- Thoroughly mix contents of spray tank
- Drain a volume of carrier adequate to fill booms and piping system from the contents of the tank and then add back to the tank

Compatibility – when combining **AX DIFLU 2L IGR** with other pesticides, additives or adjuvants, test for compatibility and sprayability. In a lidded glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. Observe mixture for approximately 30 minutes (though signs of incompatibility will often be seen within 5 minutes).

Application – aerial or ground application

Spray should be applied with aerial or ground equipment designed or modified to insure uniform and complete coverage of the whole plant / crop surface. Equipment should be calibrated to deliver droplets of 150 to 220 microns in diameter. Continue constant agitation while mixing and while applying **AX DIFLU 2L IGR**.

Application Through Irrigation Systems – Chemigation*

***DO NOT APPLY VIA CHEMIGATION IN THE STATE OF CALIFORNIA**

AX DIFLU 2L IGR can be applied through properly equipped chemigation systems for insect control in grassland and row crops. **AX DIFLU 2L IGR** can be applied only through sprinkler irrigation systems (center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move). Do not apply this product through any other type of irrigation system. If treated water is not uniformly distributed, crop injury, illegal pesticide residues or lack of efficacy could occur.

In order to calibrate the irrigation system and injector to apply the mixture:

- Determine how many acres are irrigated by the chemigation system
- Once the irrigation rate has been set, determine how long (minutes) the system takes to cover the intended treatment area
- Determine the amount of mixture (total gallons) necessary to cover the desired acreage.
- Determine injector's gallon per minute rate by dividing amount of mixture (gallons) needed by time (minutes) to cover intended treatment area.
- Determine the correct ounces per minute rate (converting from gallons per minute)
- Operate system at desired irrigation rate and calibrate injector

It is suggested that the injector pump be calibrated at least twice before operation and the system be monitored during operation.

Your local extension service, university experts or equipment manufacturers or representatives can answer questions regarding calibration.

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

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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

If the chemigation system is connected to a public water supply, the following conditions must also be met:

- '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, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from a 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 flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- The pesticide injection pipeline must contain a functional, 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.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
- Upon completion of insecticide application, remove scale, pesticide residues, and other foreign matter from the supply tank and entire injector system. Flush thoroughly with clean water.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

SPRINKLER CHEMIGATION

For continuously moving systems, the mixture containing **AX DIFLU 2L IGR** must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. If continuously moving irrigation equipment is used, apply in no more than 0.25 inch of water. For sprinkler systems that do not move during operation, apply in no more than 0.25 inch of irrigation immediately before the end of the irrigation cycle.

Maintain continuous agitation of the pesticide supply tank for the duration of the application period.

To apply a pesticide using sprinkler chemigation, the chemigation system must meet the following specifications:

- 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.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

RESISTANCE- MANAGEMENT RECOMMENDATIONS

For resistance-management, **AX DIFLU 2L IGR** contains a Group 15 insecticide. Any insect population may contain individuals naturally resistant to **AX DIFLU 2L IGR** and other Group 15 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **AX DIFLU 2L IGR** or other Group 15 insecticides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than the maximum seasonal use rate or the total number of consecutive sprays of **AX DIFLU 2L IGR** per season.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - o Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - o Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - o When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - o Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - o The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance management and/or IPM recommendations for the specific site and pest problems in your area.

SPECIFIC USE DIRECTIONS

FIELD AND ROW CROPS

ARTICHOKE (California only)

Application Instructions

AX DIFLU 2L IGR can be applied aerially in 10 to 20 gallons (total volume) per acre, or by ground application in 50 to 250 gallons (total volume) per acre. Make sure that application volume is sufficient for adequate coverage.

Application Rates

Artichoke Plume Moth: apply 8-16 fl. ozs. per acre

Optimum results are obtained when **AX DIFLU 2L IGR** is applied when first moths are caught in pheromone traps, or when moth flights start.

IMPORTANT

- **AX DIFLU 2L IGR** can be a part of an IPM program to manage target pest populations (in combination with cultural practices, target insect population early detection, threshold treatment levels, etc.). University or local extension representatives can give recommendations regarding IPM practices

RESTRICTIONS

- For use only in California
- Maximum number of applications is 3 in any 30 day period
- Application interval is a minimum of 15 days
- Pre-harvest interval is 1 day before harvest

BARLEY, OATS, TRITICALE, & WHEAT

Application Instructions

AX DIFLU 2L IGR can be applied aerially in 2 to 5 gallons (total volume) per acre, or by ground application in 5 to 15 gallons (total volume) per acre. Make sure that application volume is sufficient for adequate coverage.

Application Rates

Grasshoppers: apply 1 – 2 fl. ozs. per acre

Optimum results are obtained when application is made to infesting grasshoppers that have reached the 2nd and 3rd nymphal stage of development. Adult grasshoppers will not be effectively controlled by **AX DIFLU 2L IGR**.

Cereal Leaf Beetle: apply 4 fl. ozs. per acre

Make application when egg laying begins to occur, for optimum results. If infestation advances into later instar larvae, do not apply **AX DIFLU 2L IGR**.

IMPORTANT

- If a large influx of grasshoppers occurs, tank mixing with a knockdown insecticide is recommended. Use of **AX DIFLU 2L IGR** alone may not reduce grasshopper population soon enough to minimize extensive foliage feeding.
- Larvae and nymphs could take up to 5 to 7 days following application to show visible effects, due to the unique mode of action of **AX DIFLU 2L IGR**.

BARLEY, OATS, TRITICALE, & WHEAT RESTRICTIONS

- Pre-harvest interval for forage is 3 days; Pre-harvest interval for hay is 15 days; Pre-harvest interval for grain and straw is 50 days.
- For use only in: Alaska; Colorado; Idaho; Montana; Nebraska, Western (West of Route 281); North Dakota, Western (West of Route 281); Oregon; South Dakota, Western (West of Route 281); Utah, Washington, Wyoming
- Do not apply after the boot stage of growth
- Do not make more than 1 application per season
- Do not exceed 4 fl. ozs. (1 oz. a.i.) of **AX DIFLU 2L IGR** per acre per growing season

COTTON

Application Instructions

AX DIFLU 2L IGR may be applied aerially in 3 to 5 gallons (total volume) per acre, or by ground application in 10 to 20 gallons (total volume) per acre. **AX DIFLU 2L IGR** can also be applied via ULV application in 20 to 48 fl. ozs. total volume per acre aerially, or by ground application in 20 to 64 fl. ozs. total volume per acre. Make sure the application volume is sufficient for adequate coverage.

Adjuvants

- If **AX DIFLU 2L IGR** is being applied under conditions of high air temperature and/or low humidity, or other conditions that encourage water evaporation, 1 to 2 qts. oil is to be used with **AX DIFLU 2L IGR** for control of larvae / nymphs
- For a low volume application (ground or aerial), the use of 1 pt. to 2 qts. of an emulsified vegetable or paraffinic crop oil can reduce evaporation of spray droplets (and subsequent drift), and can enhance canopy penetration
- When **AX DIFLU 2L IGR** is being applied via ULV, 20 fl. ozs. (minimum) of an emulsified cottonseed, vegetable or petroleum based oil carrier is to be used (if cottonseed oil used is non-emulsified, a compatibility agent may be necessary for thorough blending)

For oil specifications, consult your supplier representative.

Application Rates

Beet Armyworm (early season before first bloom): Apply 2-4 fl. ozs. per acre

For acceptable beet armyworm control in young cotton, apply **AX DIFLU 2L IGR** when observing 2 beet armyworm egg masses or hatchouts per 100 feet of row, or other sign of beet armyworm activity. Make multiple directed or broadcast applications until 8 fl. ozs. **AX DIFLU 2L IGR** have been applied per acre, at application intervals of 5 to 7 days. Multiple applications more completely cover

rapidly growing cotton plants, and **AX DIFLU 2L IGR**'s persistence can help prevent buildup of beet armyworm populations later in the growing season.

Beet Armyworm (mid-season): apply 4-8 fl. ozs. per acre

Make multiple applications at 5 to 7 day intervals, until 8 fl. ozs. **AX DIFLU 2L IGR** per acre have been applied. Start application around first bloom, up through mid-bloom. For more extreme larval pressure, or for larger cotton, use higher listed application rate. Make first application when a new generation of larvae is about to hatch (determined by peak beet armyworm moth catches in pheromone traps). For optimum control, treat cotton leaves during early stages of larval development, before populations become established.

Beet Armyworm (late season): apply 6-8 fl. ozs. **AX DIFLU 2L IGR** per acre

Apply when peak beet armyworm moth catches are observed in pheromone traps, after mid-bloom, but at least 14 days prior to harvest. For more extreme larval pressure, or for larger cotton, use higher listed application rate.

For control of **Fall Armyworm, Yellowstriped Armyworm, Southern Armyworm** and suppression of **Soybean Looper, Cabbage Looper, Saltmarsh Caterpillar**: apply 4 -8 fl. ozs. per acre.

Make applications during a 5 to 7 day interval, in early larval development stages, until at least 8 fl. ozs. **AX DIFLU 2L IGR** per acre have been applied.

Boll Weevil (early season, before first bloom): apply 4-8 fl. ozs. per acre

For optimum boll weevil control, apply initially at pinhead square stage of cotton growth. Wait 7 days before repeat application. For ULV application use the lower (4 fl. ozs. per acre) rate.

Adjuvants: Use 2 to 4 quarts paraffinic crop oil, emulsified cottonseed oil or vegetable oil. Or if making a ULV application, use a minimum of 8 fl. ozs. of vegetable or petroleum based oil carrier, oil-based insecticide or emulsified cottonseed oil. If cottonseed oil used is non-emulsified, a compatibility agent may be necessary for thorough blending. For oil specifications, consult your supplier representative.

AX DIFLU 2L IGR does not kill adult boll weevil, but controls populations by suppressing reproduction – eggs deposited by affected female weevils will not hatch. Seven to 10 days after initial treatment of female, non-hatching eggs are laid, and will continue to be laid for approximately 10 days, or longer if female boll weevil is exposed to additional applications of **AX DIFLU 2L IGR**. Control of egg hatch and larval development within the pinhead square keeps it from shedding, and results in normal boll development. Multiple treatments and early application will result in best control.

Boll Weevil: apply 2-4 fl. ozs. per acre

Apply when adult weevils are going into diapause, when cotton plant has begun blooming out at the top or has reached full vegetative growth. The number of weevils that appear in the spring is reduced when applications are made to adult weevils going into diapause to overwinter.

Make 2 to 3 (maximum) applications, at 7 to 14 day intervals.

Adjuvants: Use 2 to 4 quarts paraffinic crop oil, emulsified cottonseed oil or vegetable oil with a low volume application spray. Or if making a ULV application, use a minimum of 8 fl. ozs. of vegetable or petroleum based oil carrier, oil-based insecticide or emulsified cottonseed oil. If cottonseed oil used is non-emulsified, a compatibility agent may be necessary for thorough blending.

Grasshopper: apply 2 fl. oz. per acre

When most infesting grasshoppers have reached the 2nd and 3rd nymphal stage of development, **AX DIFLU 2L IGR** should be applied. For effective control, apply before grasshoppers reach the adult stage. If a large influx of grasshoppers occurs, tank mixing with a knockdown insecticide is recommended. Use of **AX DIFLU 2L IGR** alone may not reduce grasshopper population soon enough to minimize extensive foliage feeding.

IMPORTANT:

- **AX DIFLU 2L IGR** can be tank mixed with other cotton insecticides. Be careful when tank mixing **AX DIFLU 2L IGR** with emulsifiable concentrate insecticides and oil, as phytotoxicity may result.
- Larvae and nymphs could take up to 5 to 7 days following application to show visible effects, due to the mode of action of **AX DIFLU 2L IGR**.

COTTON RESTRICTIONS

- Do not make more than 6 applications per season
- Do not exceed 24 fl. ozs. (6 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- For uses after boll opening, the maximum number of applications per year is 3, and the maximum amount of product per acre is 12 fl. ozs. (3 ozs. a.i.)
- Pre-harvest interval is 14 days

LEAFY BRASSICA GREENS SUBGROUP 5B (includes: Broccoli raab, Cabbage, Chinese (bok choy), Collards, Kale, Mizuna, Mustard greens, Mustard spinach, Rape greens) and TURNIP GREENS

Application Instructions

AX DIFLU 2L IGR can be applied via ground application in a minimum of 30 gallons of water per acre. Multiple applications can more effectively cover newly growing foliage. Make sure that application volume is sufficient for adequate coverage.

Application Rate

Grasshopper: apply 2-4 fl. ozs. per acre

When most infesting grasshoppers have reached the 2nd and 3rd nymphal stage of development, **AX DIFLU 2L IGR** should be applied. Reapply after 7 days if crop reinfestation (nymphal hatch out) continues. For effective control, apply before grasshoppers reach the adult stage. Use higher listed application rate for greater residual control, around dense foliage, or for areas with historically heavy grasshopper infestations.

IMPORTANT

- Larvae and nymphs could take up to 5 to 7 days following application to show visible effects, due to the mode of action of **AX DIFLU 2L IGR**.
- If a large influx of grasshoppers occurs, tank mixing with a knockdown insecticide is recommended. Use of **AX DIFLU 2L IGR** alone may not reduce grasshopper population soon enough to minimize extensive foliage feeding.
- Populations will not be decreased until larvae and nymphs ingest plant material treated with **AX DIFLU 2L IGR**, and then undergo molting

LEAFY BRASSICA GREENS SUBGROUP 5B and TURNIP GREENS RESTRICTIONS

- Do not apply to turnip varieties or cultivars with harvestable root
- Do not make more than 4 applications per season
- Do not exceed 16 fl. ozs. (4 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Pre-harvest interval is 7 days

PEANUT

Application Instructions

AX DIFLU 2L IGR can be applied aerially, in 3 to 5 gallons water per acre, or by ground application, in 9 to 35 gallons water per acre. Make sure that application volume is sufficient for uniform coverage.

Adjuvants: See COTTON section.

Application Rate

Velvet Bean Caterpillar, Mexican Bean Beetle, Green Cloverworm: apply 2-4 fl. ozs. per acre

Armyworm (such as Beet, Fall, Southern, Yellow-striped), Lesser Cornstalk Borer: apply 4-8 fl. ozs. per acre

Soybean Looper suppression: apply 4-8 fl. ozs. per acre

For optimum control and minimization of insect damage, apply when larvae are small (less than 1/2 inch). Use higher listed application rate for greater residual control, around dense foliage, or for areas with historically heavy infestations. **AX DIFLU 2L IGR** can be reapplied if necessary, to control reappearance of pests, after an application interval of 14 days.

Grasshopper: apply 2 fl. ozs. per acre

When most infesting grasshoppers have reached the 2nd and 3rd nymphal stage of development, **AX DIFLU 2L IGR** should be applied. For effective control, apply before grasshoppers reach the adult stage.

IMPORTANT

- Due to the mode of action of **AX DIFLU 2L IGR**, it could take up to 5 to 7 days following application to show first signs of control (populations will not be decreased until larvae and nymphs ingest plant material treated with **AX DIFLU 2L IGR**, and then undergo molting)
- If a large influx of grasshoppers occurs, tank mixing with a knockdown insecticide is recommended. Use of **AX DIFLU 2L IGR** alone may not reduce grasshopper population soon enough to minimize extensive foliage feeding.

PEANUT RESTRICTIONS

- Do not make more than 3 applications per season
- Do not exceed 24 fl. ozs. (6 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Pre-harvest interval is 28 days

PEPPER – Bell and Non-Bell

Application Instructions

AX DIFLU 2L IGR can be applied aerially, in 3 to 10 gallons (total volume) per acre, or by ground application, in a minimum of 30 gallons (total volume) per acre. Make sure that application volume is sufficient for adequate coverage.

Adjuvants: see COTTON section.

Application Rate

Apply 4 to 8 fl. ozs. per acre

Pepper Weevil - Make application when pepper plants begin to flower. For more thorough coverage of expanding fruit and new foliage, **AX DIFLU 2L IGR** can be reapplied every 7 days. For moderate to heavy infestations, use higher listed rate. **AX DIFLU 2L IGR** does not control adult pepper weevils, but adult contact or consumption of **AX DIFLU 2L IGR** will bring about reduced hatching of eggs from these adults.

Restriction: DO NOT exceed seasonal application rate of 24 fl. ozs. product per acre per season.

Armyworm (Beet, Fall Southern) and other Lepidopteran insects that feed on pepper foliage:

For control of armyworms and to lessen damage to fruit and leaves, make application when armyworm larvae are small. For more thorough coverage of expanding fruit and new foliage, **AX DIFLU 2L IGR** can be reapplied every 7 days (note – do not exceed seasonal application rate of 24 fl. ozs. **AX DIFLU 2L IGR** per acre per season). For heavy infestations, or if product is applied alone, use higher listed rate.

Tank Mixes: If presence of late instar larvae are detected, tank mix **AX DIFLU 2L IGR** with an insecticide that provides insect knockdown.

IMPORTANT

- Due to the mode of action of **AX DIFLU 2L IGR**, it could take up to 5 to 7 days following application to show first signs of control (populations will not be decreased until larvae and nymphs ingest plant material treated with **AX DIFLU 2L IGR**, and then undergo molting)

PEPPER RESTRICTIONS

- Do not exceed 24 fl. ozs. (6 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Do not make more than 5 applications per season
- Pre harvest interval is 7 days

RICE

Application Rate and Instructions

Apply **AX DIFLU 2L IGR** aerially, in at least 5 gallons total volume per acre.

Rice Water Weevil:

When adults have reached an economic threshold or begin laying eggs, application of **AX DIFLU 2L IGR** will control rice weevil larvae. Local extension service or university experts can advise regarding egg laying and economic threshold. Use the rates indicated below:

- California – Make one 8 to 16 fl. ozs. per acre application (for historically high infestations, use 12-16 fl. ozs. rate). Apply to rice in CA when rice is at 2 to 4 leaf stage, typically 2-5 days after rice emerges above water.
- Southern U. S. Rice Belt – water seeded, pinpoint flood or continuous flood rice – Apply 8 fl. ozs. per acre application (typically when rice leaves have emerged above water). Make second 8 fl. ozs. application 5 to 7 days later. [NOTE – not making second application in indicated time frame could lead to unsatisfactory control, particularly for higher infestations or prolonged migration]
- Southern U. S. Rice Belt – drill seeded, dry seeded or water seeded delayed flood rice – Make one 12 to 16 fl. ozs. per acre application (for historically high infestations, or prolonged migration of weevils into rice field, use higher listed application rate). Apply to rice 2 to 5 days after permanent flood establishment.

For optimum results, wait 7 days to disturb flood after single application, and for split application, wait 4 days to disturb flood after first treatment and 7 days to disturb flood after second treatment.

Tank Mixes: **AX DIFLU 2L IGR** can be tank mixed with rice post permanent flood herbicides, such as those containing the active ingredient quinclorac, triclopyr or bensulfuron methyl, as it does not exhibit any phytotoxicity to rice.

IMPORTANT

- To avoid decreased activity, apply **AX DIFLU 2L IGR** when field flooding is not in progress
- **AX DIFLU 2L IGR** does not control adult weevils directly, adults feeding on treated plants will not lay viable eggs
- **AX DIFLU 2L IGR** prevents larvae from hatching, and controls eggs laid under water treated with **AX DIFLU 2L IGR**

RICE RESTRICTIONS

- Do not exceed 16 fl. ozs. (4 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Preharvest interval is 80 days
- Not for use on wild rice (*Zizania* spp.)
- Granular material treated with **AX DIFLU 2L IGR** cannot be used in rice
- Treat entire field with **AX DIFLU 2L IGR** (do not try to treat specific sections of rice field)
- Floodwaters from treated rice are only to be used to irrigate crops listed on **AX DIFLU 2L IGR**'s label.
- Retain treated floodwaters at least 14 days, to give **AX DIFLU 2L IGR** time to dissipate
- **AX DIFLU 2L IGR** should not be used around crayfish (crawfish):
 - Do not use on rice fields in which crayfish (crawfish) farming is included in the cultural practice
 - Do not use on rice fields that are directly next to sites of crayfish farming
 - Do not drain treated water onto fields where crayfish are farmed

SOYBEANS (Except California)

Application Instructions

AX DIFLU 2L IGR can be applied aerially, in 3 to 5 gallons water per acre, or by ground application, in 9 to 35 gallons water per acre. Make sure that application volume is sufficient for uniform coverage.

Adjuvants: See COTTON section.

Application Rate

Velvet Bean Caterpillar, Mexican Bean Beetle, Green Cloverworm: apply 2-4 fl. ozs. per acre

For lower insect damage and optimum control, apply when larvae are small (less than 1/2 inch). **AX DIFLU 2L IGR** can be reapplied if necessary, to control reappearance of damaging numbers of pests, after an application interval of 30 days. When soybean pod formation has begun, after vegetative growth is complete, **AX DIFLU 2L IGR** applied at the lower rate (2 fl. ozs.) can prevent velvetbean caterpillar buildup.

Beet Armyworm, Fall Armyworm, Soybean Looper (suppression): apply 4 fl. ozs. per acre

For optimum control, apply before populations build, and when worms are small in size.

Grasshopper: apply 2 fl. ozs. per acre

When most infesting grasshoppers have reached the 2nd and 3rd nymphal stage of development, **AX DIFLU 2L IGR** should be applied. For effective control, apply before grasshoppers reach the adult stage.

Tank Mix: Apply **AX DIFLU 2L IGR** tank mixed with a knockdown insecticide if soybean fields experience a large grasshopper population incursion from adjacent and nearby fields, to reduce extensive foliage feeding.

Soybean yield enhancement: **AX DIFLU 2L IGR** can increase soybean seed yield in both determinate and indeterminate cultivars, under certain growing conditions, and LOW insect pressure. Making application of **AX DIFLU 2L IGR** at 2 to 4 fl. ozs., at the R3 (beginning of pod growth – fully developed leaf with pod of 3/16 inches in length on main stem uppermost node) to R3.5 (pod almost fully elongated – fully developed leaf with pod ¼ inches in length on main stem uppermost nodes) growth stages will result in most consistent yield increase.

IMPORTANT

- Due to the mode of action of **AX DIFLU 2L IGR**, it could take up to 5 to 7 days following application to show first signs of control (populations will not be decreased until larvae and nymphs ingest plant material treated with **AX DIFLU 2L IGR**, and then undergo molting)

SOYBEANS (Except California) RESTRICTIONS

- Do not use on soybeans in the State of California (registered by the California Department of Pesticide Regulation)
- Do not make more than 2 applications per season
- Do not exceed 8 fl. ozs. (2 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Pre-harvest interval is 21 days

TURFGRASS (for use on sod farms only)

Application Instructions

AX DIFLU 2L IGR can be applied in 20 to 50 gallons of water per acre depending on the density of turf and caterpillar pressure. Use higher volume of water for greater insect pressure or dense foliage. **AX DIFLU 2L IGR** can be reapplied, if necessary, after an application interval of 14 days.

Application Rate

Armyworms (Fall, True, Southern Beet, Yellow-striped), Sod Webworm, Striped Grass Looper, Granulate Cutworm and other Lepidopteran foliage-feeding caterpillars:

Apply 2 fl. ozs. per acre

Make application while caterpillar larvae are small (less than ½ inch long, prior to reaching 4th instar growth stage), and at first sign of hatch out. Populations will be decreased once larvae consume **AX DIFLU 2L IGR** and undergo molting.

TURFGRASS (for use on sod farms only) RESTRICTIONS

- Do not exceed 8 fl. ozs. (2 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Do not make more than 4 applications per season

ORCHARD CROPS

CITRUS FRUIT GROUP 10-10* Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange,

sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; unqi fruit; cultivars, varieties, and/or hybrids of these

***In California – only approved for use on orange, grapefruit, tangerine, pummelo and their hybrids.**

Application Instructions

AX DIFLU 2L IGR can be applied as a high volume spray aerially, using fixed wing or rotary equipment, in 5 to 20 gallons (total volume) per acre, or by ground application, using hand-held, hand gun, air blast or air assisted equipment, in 50 to 1000 gallons (total volume) per acre. Make sure that application volume is sufficient for uniform coverage of leaf surfaces. If making a low volume application (see pest specific sections below), spray equipment nozzle must produce a droplet size of 90 microns median diameter or larger (**low volume applications to citrus fruit are not approved in California**). Optimum results on the largest range of pests will be gained from applying **AX DIFLU 2L IGR** when new flush is emerging and/or present, however product can be applied to citrus at any time of the year.

Application Rate

For all citrus pests, apply **AX DIFLU 2L IGR** at a rate of 20 fl. ozs. per acre.

Asian Citrus Psyllid (*Diaphonia citri*)

Make application when Asian Citrus Psyllid (ACP) oviposition is seen or expected, when early-feather leaf flush is present. To maximize coverage of the entire citrus leaf flush, make split application by spraying half of volume of product (10 fl. ozs. per acre) as indicated above (oviposition seen or expected, early-feather leaf flush is present, leaf distortion is evident), and the other half (10 fl. ozs. per acre) to protect new growth flush, as needed. Wait at least 30 days (**90 days in CA**) for subsequent applications of **AX DIFLU 2L IGR**.

Low Volume Application – Except in California, apply by ground (air-assisted or air blast spray equipment - nozzle must produce droplet size with a volume median diameter of 90 microns or larger) in 3 to 5 gallons (total volume) per acre.

Citrus Rust Mite (*Phyllocoptura oleivora*)

Make application when Citrus rust mites (CRM) are first observed on fruit or leaves.

For CRM control programs, rotate to an insecticide with a different mode of action before reapplying **AX DIFLU 2L IGR**. Activity of **AX DIFLU 2L IGR** on CRM is on immature stages, with most activity on late-instar CRM and may not reach full effect for up to 14 days after application.

Lepidopterous Miners: Citrus Leafminer (*Phyllocnistis citrella*)

Make application when Citrus Leafminer (CLM) oviposition is seen or expected, when leaf flush is present and oldest leaf is expanded by one-quarter, or when leaf mining is evident.

To maximize coverage of the entire leaf flush, make split application by spraying half of volume of product (10 fl. ozs. per acre) as indicated above (oviposition seen or expected, leaf flush is present, leaf distortion is evident), and the other half (10 fl. ozs. per acre) to protect new growth flush, as needed. Wait at least 30 days (**90 days in CA**) for subsequent applications of **AX DIFLU 2L IGR**.

Low Volume Application – apply by ground (air-assisted or air blast spray equipment - nozzle must produce droplet size with a volume median diameter of 90 microns or larger) in 3 to 5 gallons (total volume) per acre.

Lepidopterous Miners: Citrus Peel Miner (*Marmara* spp.)

Make application when citrus peel surfaces show Citrus peel miner (CPM) oviposition, or when expected.

To maximize coverage of the fruit surface, make split application by spraying half volume of product (10 fl. ozs. per acre) when CPM oviposition begins, and the other half (10 fl. ozs. per acre) to protect expanded fruit growth, as needed. Wait at least 30 days (**90 days in CA**) for subsequent applications of **AX DIFLU 2L IGR**. Protection from CPM larvae will lessen over time as fruit expands and new, unprotected tissue develops, but may last up to several weeks.

Citrus Root Weevil Complex: West Indian Sugarcane Rootstalk Borer Weevil (*Diaprepes abbreviatus*), Southern Blue-Green Citrus Root Weevil (*Pachnaeus litus*), Blue-Green Citrus Weevil (*Pachnaeus opalus*) Fuller Rose Beetle (*Asynonychus godmani*), Little Leaf Notcher (*Artipus flondanus*)

Make application to citrus leaf flush when Citrus root weevils (CRW) are seen, when oldest leaf is expanded by one-half, or when recent leaf feeding is evident.

Katydids, Grasshoppers:

Make application when katydids or grasshoppers are seen, or recent feeding on leaves or fruit is noticed.

To maximize coverage and protection of leaves and fruit, make split application by spraying half of volume of product (10 fl. ozs. per acre) as indicated above (katydids or grasshoppers are seen, recent feeding on leaves or fruit), and the other half (10 fl. ozs. per acre) to protect new growth, as needed. Wait at least 30 days (**90 days in CA**) for subsequent applications of **AX DIFLU 2L IGR**.

Adjuvants - To enhance spray coverage, add a CDA approved or other quality surfactant such as Dine-Amic® or Kinetic® or addition of a spray oil, such as FC435-66. Consult your supplier representative for oil specifications. Addition of a spray oil also aids knockdown of existing populations (CRM), penetration or absorption of **AX DIFLU 2L IGR** into immature stages of insects², mites³, eggs^{1,3,4,5,6,7}, larvae³, pupae³, nymphs^{1,6,7} and adults^{1,6,7}. A spray oil improves **AX DIFLU 2L IGR**'s activity, which is to prevent eggs from hatching, larvae or nymphs from molting, moths from emerging from pupae, and limiting eggs laid or able to hatch by adult females when exposed to **AX DIFLU 2L IGR** through contact, ingestion and/or absorption. Spray oil also limits egg mass attachment to citrus leaf surface³.

1 – Asian Citrus Psyllid

2 – Citrus Rust Mite

3 – Citrus Leafminer

4 – Citrus Peel Miner

5 – Citrus Root Weevil Complex

6 – Katydid

7 - Grasshopper

IMPORTANT:

- Application of **AX DIFLU 2L IGR** when new citrus flush has emerged will give best control of the most pests, however it can be applied anytime during the year
- **AX DIFLU 2L IGR** affects existing ACP, CLM and citrus root weevil populations by diminishing their reproductive ability.
- **AX DIFLU 2L IGR** does not control the following insect growth stages:
 - Adult Asian citrus psyllid, citrus root weevils, katydids or grasshoppers
 - Adult Citrus Rust mite or Citrus rust mite eggs
 - Citrus Leafminer or Citrus peel miner moths

ORCHARD CROPS RESTRICTIONS

- **Ground Application:** Do not apply within 25 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. **In the State of Florida**, do not apply within 100 feet of estuarine/marine bodies of water. Spray last three rows windward of surface water using nozzles on one side only, with spray directed away from surface water. Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on one side away from the grove when spraying the outside row. Shut off nozzles when turning at ends of rows and passing tree gaps in rows.
- **Aerial Application:** Do not apply within 150 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. **In the State of Florida**, do not apply within 1000 feet of estuarine/marine bodies of water.
- Maximum amount of product per acre is 60 fl. ozs. (15 ozs. a.i.) per year
- Maximum number of applications per year is three full rate applications of 20 fl. ozs. per acre per year or six split applications of 10 fl. ozs. per acre per year, or a combination of full and split applications, not exceeding the maximum yearly amount of 60 fl. ozs. (15 ozs. a.i.) per acre per year.
- Pre-harvest interval is 7 days (**21 days in CA**).
- Wait a minimum of 30 days (**90 days in CA**) for repeat application (except when making split applications, as per instructions, above)
- Do not graze livestock in treated areas or harvest cover crops in treated areas for livestock feed

PEAR

Application Instructions

Apply **AX DIFLU 2L IGR** in a minimum of 80 to 400 gallons of water per acre. Make sure that application volume is sufficient for uniform coverage.

Application Rate

Pear Psylla, Pear Rust Mite (pre-bloom) – apply 40 – 48 fl. ozs. per acre

Make application any time from delayed dormant period to white bud, or 'popcorn,' stage of growth, and during the deposition of pear psylla eggs so that **AX DIFLU 2L IGR** contacts eggs and/or 1st and 2nd instar nymphs. Make sure tree is completely and uniformly covered with spray for optimum insect control.

Additives: During delayed dormant period, apply **AX DIFLU 2L IGR** with 4 to 6 gallons per acre of a horticultural mineral oil. When applying during other growth periods, through the white bud, or 'popcorn,' stage, apply **AX DIFLU 2L IGR** with 0.25% horticultural oil (maximum of 1 gallon horticultural oil per acre). Additionally, coverage can be enhanced with the use of a surfactant (follow surfactant label instructions).

Codling Moth, suppression of **Pear Psylla** (post-bloom) – apply 12 to 16 fl. ozs. per acre

Make application as soon as possible after first codling moths are observed or caught (biofix), or about 50-75 degree days after biofix. **AX DIFLU 2L IGR** prohibits hatching of codling moth eggs, and must be applied to trees before eggs are laid, so that laid eggs are deposited on treated surfaces. Make sure that entire tree surface, including fruit and foliage is treated with **AX DIFLU 2L IGR**. If codling moth pressure is light, or if pear trees are small, use lower rate. Timing of application is extremely important. Timing can be determined by local fruit specialist or pest control consultant, by employing the use of pheromone traps. Typically the optimum time for application will occur around 10 – 14 days prior to application of an organophosphate insecticide, or around late petal fall. A second application of **AX DIFLU 2L IGR** should be applied 14 – 18 days after initial application.

If necessary (prior to egg laying of 2nd generation, as determined by timing indicated above, for 1st generation), a third and fourth application can be made. If the use of pheromone traps are not employed, the third application should be made 21-30 days after the 2nd, or 1000 degree days after biofix. The fourth application should be made 21-30 days after the third.

Tank Mixes: For more effective control of moderate to heavy codling moth infestations, when treating large trees, or for optimum timing of **AX DIFLU 2L IGR** spray (to save a trip through the orchard), **AX DIFLU 2L IGR** can be combined with organophosphate insecticides. Apply at the normal time for the first organophosphate cover spray, which occurs at the beginning of egg hatch (250 degree days following biofix for 1st generation, or 1250 degree days following biofix for 2nd generation). Application of this tank mixture can be repeated for 2nd and 3rd generations of codling moth, or **AX DIFLU 2L IGR** alone can be used prior to egg laying. For late season control, oil should not be used in the tank mix. When codling moth populations are low, an organophosphate / **AX DIFLU 2L IGR** mixture could control an entire generation with 1 application. For heavy populations, this combination of **AX DIFLU 2L IGR**/organophosphate may not control the entire generation with one spray. In that case apply a second spray 14 – 18 days later of **AX DIFLU 2L IGR** alone or in combination with an organophosphate, so that eggs laid after insecticide application will be residually controlled.

Leafminer – apply 8 to 16 fl. ozs. per acre

For control of leafminer larvae and eggs, make application during or just before eggs are laid. Fruit specialist or local pest control consultant can advise about timing for control of 1st or 2nd generations of leafminer. **AX DIFLU 2L IGR** can also be applied for control of later generations. For control through early sap feeding stage, **AX DIFLU 2L IGR** should be applied prior to egg laying. For control of leafminer larvae throughout the sap feeding stage, make sure that foliage is completely covered.

IMPORTANT

- Using oil with **AX DIFLU 2L IGR** could cause certain pear varieties to display injury. Local fruit tree specialists can advise on compatibility of oil mixtures.

PEAR RESTRICTIONS

- Do not make more than 4 applications per season
- Do not exceed 64 fl. ozs. (16 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Pre harvest interval is 14 days.
- Do not use oil with **AX DIFLU 2L IGR** for late season (3rd and 4th) applications.

STONEFRUIT (excluding cherries)

Includes: Apricot, Nectarine, Peach, Plum, Prune

Application Instructions

Apply **AX DIFLU 2L IGR** by ground in a minimum of 50 gallons of water for trees up to 10 feet tall and a minimum of 100 gallons of water for larger trees. For optimal results, use enough water for sufficient coverage and make sure that canopy is evenly and thoroughly covered.

Application Rate

Peach Twig Borer: apply 12 – 16 fl. ozs. per acre (0.1875 lb. a.i. to 0.25 lb. a.i./acre). Always use the higher listed rate in the range for orchards with a history of heavy infestations.

Dormant / delayed dormant application: apply with a narrow range oil (4 to 6 gallons per acre or 1.5 to 2.0 gallons per 100 gallons spray volume in a dilute spray).

Bloom application: Application can be made with a vegetable oil (1 qt. per acre), with application starting at early bloom.

Leafroller (Filbert, Oblique Banded, Omniverous leaftier, Variegated), Moth (Oriental Fruit, Winter), Fall Webworm, Walnut Caterpillar: apply 8 - 16 fl. ozs. per acre (0.125 lb. a.i. to 0.25 lb. a.i./acre). Always use the higher listed rate in the range for orchards with a history of heavy infestations.

Make application when insect larvae are first observed. The higher listed use rate will give longer residual control. It should also be used if foliage is heavy or dense, if pest infestations are high, or if trees are larger or crop load is low.

Grasshoppers, Katydid (for use in **Peach Orchards in GA ONLY**): Apply 2 fl. ozs. per acre

Make application to peach orchards or surrounding vegetation when immature insects are first observed. Larvae and nymphs could take up to 5 to 7 days following application to show visible effects, due to the mode of action of **AX DIFLU 2L IGR**.

AX DIFLU 2L IGR will not control adult grasshoppers. If a large influx of grasshoppers occurs, tank mixing with a knockdown insecticide is recommended. Use of **AX DIFLU 2L IGR** alone may not reduce grasshopper populations soon enough to minimize extensive foliage feeding.

STONEFRUIT (excluding cherries) RESTRICTIONS:

- Do not exceed 32 fl. ozs. (8 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season when applied to grasshoppers and katydids in peach orchards in GA only)
- Maximum number of applications per season is 2 (or when applied to grasshoppers or katydids in peach orchards in GA only, as needed, up to application of 16 fl. ozs.)
- Wait a minimum of 21 days between **AX DIFLU 2L IGR** applications
- **AX DIFLU 2L IGR** is not to be applied to stonefruit after petal fall (with the exception of applications to grasshoppers or katydids in peach orchards in GA only)
- Preharvest interval for use on grasshoppers or katydids in peach orchards in GA is 14 days.

TREE NUTS GROUP 14-12

(includes Almond, Beech nut, Brazil nut, Butternut, Chestnut, Chinquapin, Filbert (hazelnut), Hickory nut, Macadamia nut (bush nut), Pecan, Pistachio, Walnut (Black and English))

Application Instructions

Apply **AX DIFLU 2L IGR** by ground in a minimum of 50 gallons of water for trees up to 10 feet tall and a minimum of 100 – 300 gallons of water for larger trees. For optimal results, use enough water for thorough coverage and make sure that canopy is evenly and thoroughly covered.

Application Rate

Filbert Worm: apply 12 – 16 fl. ozs. per acre

Apply **AX DIFLU 2L IGR** before eggs are laid on treated foliage, or when moths first emerge from cocoon – if using pheromone detection traps, 2 to 3 days after first moth catch. Mating takes place soon after emergence and egg laying begins the following day. Make sure that tree and foliage coverage is uniform for best control. Use lower rate if trees are small or worm pressure is low. Use higher listed rate if trees are larger, or worm pressure is moderate to high. If necessary (continuing high moth pressure), a subsequent application of **AX DIFLU 2L IGR** should be made.

Hickory Shuckworm: apply 8 – 16 fl. ozs. per acre

Split Application – for optimum control, apply 4 to 8 fl. ozs. **AX DIFLU 2L IGR** when larvae begin to feed or when hickory shuckworm moth emerges; make second 4 to 8 fl. ozs. application two weeks later.

AX DIFLU 2L IGR can also be applied at half-shell hardening, with additional applications 21 days later, up to shuck split, or while heavy insect infestations are present. Use the higher listed rate on heavy, dense foliage, on larger trees or low crop load, or under higher pest infestations.

Codling Moth— apply 16 fl. ozs. per acre

For optimum control, apply prior to egg laying. Apply a full coverage spray to orchard so that eggs are laid on a surface that is treated with **AX DIFLU 2L IGR**.

Apply when first moths hatch (determine by moth flight or pheromone traps). Following application should be made 21 days later. This timing is appropriate for first or second generation (brood).

Tank Mixing – **AX DIFLU 2L IGR** can be tank mixed with an organophosphate insecticide at its lowest label rate to control extended populations of codling moth because of variations in emergence time due to temperature fluctuations or overwintering. Application should occur at normal timeframe for an organophosphate insecticide. Additionally, if **AX DIFLU 2L IGR** is not initially applied prior to egg laying, then tank mixing with an organophosphate insecticide as indicated above will enhance control.

Peach Twig Borer – apply 12 – 16 fl. ozs. per acre (use higher listed rate for orchards with a history of heavy infestations)

Dormant / delayed dormant application: apply with a narrow range oil (4 to 6 gallons per acre or 1.5 to 2.0 gallons per 100 gallons spray volume in a dilute spray).

Bloom application: Application can be made with a vegetable oil (1 qt. per acre), with application starting at early bloom.

Spring Flight ('May Spray') or Summer Flight – Apply **AX DIFLU 2L IGR** at initial flight activity (as determined by pheromone traps).

Pecan Nut Case-Bearer: apply 8 – 16 fl. ozs. per acre

Apply **AX DIFLU 2L IGR** as a split application as indicated:

- For optimum control and best nut set, apply first application of 4 – 8 fl. ozs. at bud break and second application 14 days later. In southeastern U. S., bud break would typically occur in mid-April.
- For control of adult generations and to target egg hatch, make first application of 4 – 8 fl. ozs. 8 to 15 days following biofix (threshold is reached when 5 moths are captured in 3 pheromone traps in a 7 day period)

Local extension service or university experts may have different or additional recommendations regarding **AX DIFLU 2L IGR** application. Consult them prior to use. Use the higher rate on heavy, dense foliage, on larger trees or low crop load, or under higher pest infestations.

Pecan Weevil (suppression): apply 8 – 16 fl. ozs. per acre

Use the higher listed rate for moderate to heavy infestations, or if weevils are attacking crop.

Leafroller (Filbert, Oblique Banded, Omniverous, Variegated), Moth (Oriental Fruit, Winter), Fall Webworm, Omniverous Leaf-tier, Caterpillar (Redhumped, Walnut): apply 8 – 16 fl. ozs. per acre

Make application as soon as larval infestations are detected. Use the higher listed rate on heavy, dense foliage, on larger trees or low crop load, or under higher pest infestations.

Tent Caterpillar (for use in almonds, pecans, pistachios and walnuts (black and English)).

Apply 8 – 16 fl. ozs. per acre

Make application as soon as larval infestations are detected. Use the higher listed rate on heavy, dense foliage, on larger trees or low crop load, or under higher pest infestations.

IMPORTANT

- If four applications are made to tree nuts, the timing should correspond to:
 - Dormant to pre-bud swell
 - Bloom to petal fall
 - Flowers/leaves/immature nut fruit formation
 - Hull split

TREE NUTS GROUP 14-12 RESTRICTIONS

- Pre-harvest interval is 28 days
- Do not exceed 64 fl. ozs. (16 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per growing season
- Do not make more than 4 applications per season (3 for walnuts)

NON-CROP USES

LIVESTOCK AND POULTRY PREMISES

Including barns, dairies, equine facilities, farms, farm buildings, feedlots, poultry houses and other production facilities. **AX DIFLU 2L IGR** application can be made to feed troughs, feed bunks, fence lines of holding pens, hay bale feeders, water troughs and waste retention ponds (marginal areas of), and **AX DIFLU 2L IGR** can control insects on/around bedding material, cage frames, ceilings, feed muck/spoilage, floors, litter, manure, manure/straw mixtures, posts, spoiled organic refuse, stale/waste feed and walls / wall footings.

Application Instructions and Rate

Carrion Beetle, Darkling Beetle, Hide Beetle (Except California):

Apply 12 fl. ozs. **AX DIFLU 2L IGR** in 2 to 20 gallons of water per 1000 ft²

Broadcast – **AX DIFLU 2L IGR** can be applied as a broadcast spray to the whole facility, including the following areas: floors, walls, posts and cage frames (at least 1 foot up from floor); cracks and crevices around insulation; litter following de-caking (making sure to thoroughly treat areas under water and feed lines). Make sure spray volume (which will be dependent on litter depth) is sufficient to completely and uniformly wet litter and other surfaces.

Banded Application – **AX DIFLU 2L IGR** can be applied only where pests congregate, including along perimeter walls and side and end walks, and under water and feed lines. Make sure spray volume (which will be dependent on litter depth) is sufficient to completely and uniformly wet litter and other surfaces, in a 2-4 foot wide band under, around and next to target areas. If lower sections of walls, posts and cage frames are treated, make sure to apply product at least 1 foot up from the floor.

Flies (including House, Stable, Face, Horn):

Broadcast - Apply 12 fl. ozs. **AX DIFLU 2L IGR** in 2 to 20 gallons of water per 1000 ft²

AX DIFLU 2L IGR can be applied as a broadcast spray to the whole facility, including the following areas: floors, walls, posts and cage frames (at least 1 foot up from floor); cracks and crevices around insulation; litter following de-caking (making sure to thoroughly treat moist areas and areas under water and feed lines). Make sure spray volume (which will be dependent on litter depth) is sufficient to completely and uniformly wet litter and other surfaces.

Spot Treatment – Apply 5 fl. ozs. **AX DIFLU 2L IGR** in 10 gallons of water

Make a directed spray application when flies first appear. 1 quart of spray solution should be applied to 10 ft² of surface (10 gallons spray solution treat 400 ft²). Repeat applications can be made when fly numbers begin to increase – usually within 14 to 21 days.

IMPORTANT

- **AX DIFLU 2L IGR** provides extended control of eggs and developing larvae, but not pupal or adult stages of insects; contact or ingestion of **AX DIFLU 2L IGR** by adults will adversely affect number of and viability of eggs.
- If a large population of adult insects is present, applying a knockdown insecticide (either alone or tank mixed with **AX DIFLU 2L IGR**) is recommended for quick decrease of population.
- If controlling insects around hay feeding sites, make product application around entire soil surface where livestock activity mixes the waste hay and manure

LIVESTOCK AND POULTRY PREMISES RESTRICTIONS

- Do not apply **AX DIFLU 2L IGR** for control of Carrion Beetle, Darkling Beetle or Hide Beetle in the State of California.
- Do not apply directly to livestock or poultry
- For spot treatment, do not make application while birds are in the houses – make application only between production cycles. Make band or broadcast applications once per production cycle;
- Band or broadcast applications can be used for indoor use only. Apply only once per production cycle at a maximum application rate (band or broadcast application) not to exceed 520 fl. ozs. per year.
- Spot treatment applications can be used for indoor or outdoor use. Maximum application for spot treatment – for outdoor use, do not apply more than 7.5 fl. ozs. per acre per application, and do not exceed 17 applications per year - for indoor use, do not apply more than 520 fl. ozs. per acre per year.
- Either a 100 foot setback or other measure that provides equivalent or better pollution reduction (35-foot wide vegetative buffer strip or physical barrier, field specific conditions or alternate conservation practices) must be observed for application of manure and processing of wastewater around any down gradient surface waters, agricultural or domestic well heads, open tile line intake structures, sinkholes or other conduits to surface waters.

- Do not contaminate feed or water by application of **AX DIFLU 2L IGR**; exposed feed or water is to be covered or removed from treatment area.

GRASSLAND

For control in grassland, including rangeland, pastures, improved pastures and similar areas used for production of native, domesticated forage grasses for harvest for livestock primarily for grazing or mechanical harvest, grasses/forages/cellulosic crops grown for biofuel, biomass or bioenergy production, including switch grass, miscanthus sp., etc.

Application Instructions

AX DIFLU 2L IGR may be applied aerially (low or high volume application) in 2 to 10 gallons of water per acre, or by ground application (low or high volume application) in 2 to 30 gallons of water per acre. For rangeland ULV (aerial or ground), apply in a minimum of 12 fl. ozs. total volume per acre.

Make sure that target crop is completely covered.

Adjuvants and Additives: For aerial and ULV application, especially when high air temperature or low humidity favor evaporation, add a product that retards evaporation and drift to the spray mixture. If this product is oil-based, maintain a ratio of at least 1 part oil to at least 2 parts water.

Application Rate

2 fl. ozs. per acre

Horn Fly, Face Fly

Make application to cow manure patties. **AX DIFLU 2L IGR** will provide at least 14 days of control of flies emerging from cow manure.

Fall Armyworm, Striped Grass Looper, other Lepidopteran foliage feeding caterpillars

Make application while caterpillar larvae are small (less than ½ inch long, prior to reaching fourth instar growth stage), and at first sign of hatch out. Populations will be decreased once larvae consume **AX DIFLU 2L IGR** and undergo molting.

Grasshopper, Mormon Cricket

- Make one application at 1 to 2 fl. ozs. per acre on grasshoppers or Mormon crickets at early instar growth stages (i.e., 2nd through 4th instar nymphal stages). A second application, at 0.5 to 1 fl. oz. per acre can be made 14 to 21 days after first application. For application on pastureland, use higher listed use rate.
- For RAAT (Reduced Area and Agent Treatment*) application on early instars in rangeland only, apply 0.75 to 1 fl. oz. per acre. Use lower rate, and skip up to 50% of the infested area (i.e., for every 100 feet treated, skip the next 100 ft. swath) if most of infestation is at early instar growth stage, vegetation is sparse, and topography is uniform. Use higher listed rate and 100% coverage if most of the infestation is at a late instar growth stage, vegetation is dense, terrain is rough and/or application is being made when temperature is high. A second application, at 0.5 to 1 fl. oz. per acre can be made 14 to 21 days after first application.

* A RAAT application is a grasshopper IPM program that takes advantage of the grasshopper's natural tendency to move as they feed. As grasshoppers move from untreated to treated areas and eat foliage treated with **AX DIFLU 2L IGR**, they are killed once molting occurs. The rate of **AX DIFLU 2L IGR** is lowered and applied in alternating treated and untreated strips. A RAAT treatment reduces application cost, giving ranchers a cost effective way to control grasshoppers or Mormon crickets on their rangeland, depending on severity of infestation, insect growth stage and density of vegetation.

If treated areas have a dense canopy, if nymphs have passed the third instar growth stage, and/or if temperature and climate encourage insect survival and proliferation, use higher listed rates of **AX DIFLU 2L IGR**. **AX DIFLU 2L IGR** should be applied after egg hatch, through early instar growth stages, as it will not control the adult stages of these insects. **AX DIFLU 2L IGR**'s residual activity will continue to control larvae later in the season.

Tank Mix: Apply **AX DIFLU 2L IGR** tank mixed with a knockdown insecticide or grasshopper adulticide if adults are present (due to overwintering or early hatching) to reduce extensive foliage feeding. Make sure tank mix partners are compatible prior to mixing and adding to main spray tank.

IMPORTANT

- Apply when possibility of drift to sensitive areas (residential, non-target crops, water bodies, threatened or endangered species habitat) is small.
- For low volume and ULV applications, continue constant agitation while mixing and applying **AX DIFLU 2L IGR**, and make sure the appropriate concentration of **AX DIFLU 2L IGR** is mixed in the boom before application begins.
- Due to the mode of action of **AX DIFLU 2L IGR**, it could take up to 5 to 7 days following application to show first signs of control (populations will not be decreased until larvae and nymphs ingest plant material treated with **AX DIFLU 2L IGR**, and then undergo molting)
- In response to treatment with **AX DIFLU 2L IGR**, Mormon crickets could exhibit structural deformities (such as malformed abdominal segments, twisted antennae, wrinkled wings, missing posterior legs, hernias, hemolymph exudation). This could result in behaviors (such as inability to fly, limited jumps and unsteady landings, slower movement, reduction in feeding) which cause the nymphs or adults to be more vulnerable to predators (birds, mammals or other insects)

GRASSLAND RESTRICTIONS

- Do not exceed 2 fl. ozs. (0.5 oz. a.i.) of **AX DIFLU 2L IGR** per acre per cutting
- Do not exceed 6 fl. ozs. (1.5 oz. a.i.) of **AX DIFLU 2L IGR** per acre per year
- Wait at least 1 day following **AX DIFLU 2L IGR** application prior to cutting grass.

NON-CROP AREAS

Including field border, fence rows, roadsides, farmsteads, ditchbanks, wasteland, Conservation Reserve Program (CRP) land

Application Instructions

AX DIFLU 2L IGR may be applied aerially (high or low volume application) in 2 to 5 gallons water per acre, or by ground application (low or high volume) in 2 to 30 gallons of water per acre.

For additional Application Instructions, see Grassland Directions for Use.

Application Rate

2 fl. ozs. per acre

Grasshopper, Mormon Cricket

Insects can be managed in their breeding areas prior to migration into cropland or other undesirable areas with application of **AX DIFLU 2L IGR**.

See Grassland Directions for Use for additional instructions and application information.

Fall Armyworm, Striped Grass Looper and other Lepidopteran foliage-feeding caterpillars

Make application while caterpillar larvae are small (less than ½ inch long, prior to reaching fourth instar growth stage), and at first sign of hatch out. Populations will be decreased once larvae consume **AX DIFLU 2L IGR** and undergo molting.

NON-CROP AREAS RESTRICTIONS

- Do not exceed 2 fl. ozs. (0.5 oz. a.i.) of **AX DIFLU 2L IGR** per acre
- Do not exceed 6 fl. ozs. (1.5 ozs. a.i.) of **AX DIFLU 2L IGR** per acre per crop season

See Grassland Directions for Use for other restrictions and instructions.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

For plastic containers ≤ 5 gallons: Nonrefillable Container: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities..

For plastic containers > 5 gallons: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Recap and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities..

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