



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 6, 2017

Beth Anderson  
Registration Manager  
Arysta Life Science  
15401 Weston Parkway, Suite 150  
Cary, North Carolina 27513

Subject: Minor changes to Master Label and the addition of six supplemental crop specific labels which include statements of state restrictive language for California and New York.  
Product Name: Dimilin 2L  
EPA Registration Number: 400-461  
Application Date: March 9, 2017  
Decision Number: 527675

Dear Ms. Anderson:

The amended labels referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Matthew Sellner by phone at 703-347-8034, or via email at [sellner.matthew@epa.gov](mailto:sellner.matthew@epa.gov).

Sincerely,

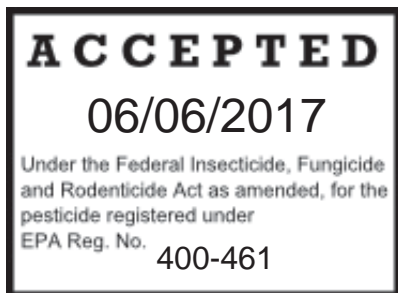
A handwritten signature in black ink, appearing to read "R. Gebken".

Richard Gebken  
Product Manager 10  
Invertebrate & Vertebrate Branch 2  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

**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.

[Text in brackets is optional]



**GROUP 15 INSECTICIDE**



**Insect Growth Regulator  
Aqueous Flowable**

For use on alfalfa; barley; carrot (not grown for seed); oats; triticale; wheat; citrus, crop group 10-10; cottonseed, subgroup 20C; grassland; non-crop areas; leafy brassica, subgroup 5B (including turnip greens); livestock/poultry premises; peach, subgroup 12-12B; plum, subgroup 12-12C; peanuts; pears; peppers/eggplant, subgroup 8-10B; rice; soybeans; tree nuts, crop group 14-12; and turfgrass (for use in sod farms only).

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
diflubenzuron		
N-[[[4-Chlorophenyl]amino]carbonyl]-2,6-difluorobenzamide*	.....	22%
<b>OTHER INGREDIENTS:</b>	.....	78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION / PRECAUCIÓN**

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

See [back][side] Panel for First Aid Instructions and [Leaflet][Booklet] for Complete Precautionary Statements and Directions for Use

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 CALL  
PROPHARMA: 1-866-303-6952 or +1-651-603-3432.  
FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure  
or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.**

For Product Use Information Call 1-866-761-9397

EPA Reg. No. 400-461  
xxxxxxV071

[Batch Code will be placed on the container.]

Produced For:  
MacDermid Agricultural Solutions, Inc.  
c/o ARYSTA LIFESCIENCE NORTH AMERICA, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

EPA Est. No.:  
NET CONTENTS:

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMAN AND DOMESTIC ANIMALS

### CAUTION

#### PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed in the following paragraphs.

**Applicators and Other Handlers Must Wear:** A long-sleeved shirt & long pants; chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, 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 such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, PVC ≥ 14 mils, or viton ≥ 14 mils; shoes plus socks; dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any R, P or HE filter).

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 (including water soluble bags), 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 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

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 or 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 applications.
- 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.
- 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 reducing immature bee viability.

## 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 made of any waterproof material such as polyethylene or polyvinyl chloride
- shoes plus socks

## INSTRUCTIONS AND INFORMATION

### SPRAY DRIFT MANAGEMENT

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. Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to ULV applications on grassland and non-crop areas, for the control of grasshoppers and Mormon crickets.

The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory.

### Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

### Controlling Droplet Size

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Select nozzles and pressure that deliver medium spray droplets as indicated in nozzle manufacturer's catalogs and in accordance with ASAE Standard S-572.

- Pressure - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of nozzles - Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

### Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

### Application Height

Applications should not be made at a height greater than 10 feet above the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### Swath Adjustment

When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for the displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

### Wind

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

## Temperature and Humidity

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

## Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover 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 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 upwards and rapidly dissipates indicates good vertical air mixing.

## Sensitive Areas

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

## PRODUCT INFORMATION

**DIMILIN® 2L** is an insect growth regulator which is effective on a wide variety of insect pests, predominately from the families Lepidoptera and Diptera. Because of its mode of action, which results in a disruption of the normal molting process of the insect larvae, the action of **DIMILIN 2L** is slow and several days may elapse before the full effect is seen. Because of its specificity, **DIMILIN 2L** is an excellent product for use in IPM programs.

**RESISTANCE MANAGEMENT:** When used as directed **DIMILIN 2L** provides control of a number of important insect pests as well as providing a margin of safety to beneficial insects and pollinators. **DIMILIN 2L** should be part of an IPM program that follows good management practices that include:

- Scouting regularly and use **DIMILIN 2L** against early immature stages for best results.
- Always follow the label rate and timing directions.
- Use chemical alternatives such as oil and preserve beneficial arthropods as part of an IPM program.
- Maintain good coverage of all leaf surfaces with adequate water volume.
- Alternate treatments to classes of insecticides with different modes of action.

## USE RESTRICTIONS

- Do not apply this product to bodies of water where swimming is likely to occur.
- **For Carrots:** Do not apply this product to carrots grown for seed.
- **For Field Crops, Row Crops, Orchard Uses, Grassland and 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.
- **RESTRICTIONS ON ROTATIONAL CROPS:** Do not plant food or feed crops in **DIMILIN 2L** treated soils within 1 month following last application, unless **DIMILIN 2L** is authorized for use on these crops.

## APPLICATION INSTRUCTIONS

### USE AND MIXING DIRECTIONS IF USED WITH WATER:

1. Fill tank with half of the required amount of water.
2. Begin agitation and add required amount of **DIMILIN 2L**.
3. Continue agitation while adding remainder of water.
4. If permitted for the use site, add proper quantity of oil slowly. To avoid formation of an invert emulsion, use at least 2 parts of water for each part of oil.

### USE AND MIXING DIRECTIONS IF USED WITHOUT WATER:

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

1. Fill tank with the required amount of oil and/or oil based insecticide.
2. Begin agitation and add required amount of **DIMILIN 2L**.
3. After the contents of the tank have been thoroughly agitated, a volume of carrier sufficient to fill the booms and piping system should be drained and then added back to the tank.

**AERIAL OR GROUND APPLICATION:** Apply spray with aerial or ground equipment designed or modified to insure full uniform coverage of the entire plant. Adjust equipment to provide droplets with a diameter of 150 to 220 microns. Provide agitation prior to, during, and after blending and while applying.

### APPLICATION THROUGH IRRIGATION SYSTEMS - CHEMIGATION

**DIMILIN 2L** may be applied through properly equipped chemigation systems for insect control in grassland and row crops. Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

In order to calibrate the irrigation system and injector to apply the mixture, determine the following: 1) Calculate the number of acres irrigated by the system; 2) Set the irrigation rate and determine the number of minutes for the system to cover the intended treatment area; 3) Calculate the total gallons of the mixture needed to cover the desired acreage. Divide the total gallons of mixture needed by the



number of minutes to cover the treated area. This value equals the gallons per minute that the injector must deliver. Convert the gallons per minute to ounces per minute. Calibrate the injector pump with the system in operation at the desired irrigation rate. It is suggested that the injector pump be calibrated at least twice before operation, and the system be monitored during operation.

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

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 systems mean 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 shutdown.
- 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 **DIMILIN 2L** 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.

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
ALFALFA[*], [**] ALFALFA GROWN FOR SEED[*], [**]	<p><b>ALFALFA RESTRICTIONS:</b> Do not apply more than 6 fl oz of <b>DIMILIN 2L</b> (1.5 oz diflubenzuron ai) per acre per calendar year. Do not make more than 3 applications per calendar year, with a minimum of 14 days between applications.</p> <p><b>For alfalfa grown for seed:</b>  <b>Preharvest Interval:</b> Allow at least 1 day after the last treatment before harvest of alfalfa seed.</p> <p><b>For alfalfa grown for forage or hay:</b> Do not exceed a total of 2 fl oz per acre per cutting.  <b>Preharvest Interval:</b> Allow at least 1 day after treatment before cutting forage or hay.</p> <p>For use West of the Mississippi River.</p> <p><b>[*Not registered for use in California]</b>  <b>[**Not registered for use in New York]</b></p>		
	Grasshopper Mormon cricket	1 – 2	<p>Apply at early instar stages (majority in the 2nd through 4th instar nymphal stages) of growth. Use a higher rate in the rate range for heavy infestations or advanced growth stage of target pest.</p> <p><b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to maximize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.</p>
	<p>Dilution Rate: Apply <b>DIMILIN 2L</b> as a foliar spray in sufficient water to provide thorough coverage of the foliage.</p> <p><b>Aerial Application:</b> Apply in 2 to 5 gallons total volume per acre  <b>Ground Application:</b> Apply in 5 to 15 gallons of total volume per acre.  Adjuvant Usage: The addition of 1 pint per acre of emulsified vegetable or paraffinic crop oil will aid canopy penetration and minimize water evaporation.</p>		

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
BARLEY[**] OATS[**] TRITICALE[**] WHEAT[**]	<p><b>BARLEY, OATS, TRITICALE &amp; WHEAT RESTRICTIONS:</b> Do not make more than 1 application per season. Do not apply more than 4 fl oz of <b>DIMILIN 2L</b> (1.0 oz diflubenzuron ai) per acre per season. Do not apply after boot stage of growth. For Use in The Following States Only: Alaska, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming, Western North &amp; South Dakota and Western Nebraska (West of Route 281 in ND, SD &amp; NE).</p> <p><b>Pre-harvest Interval:</b> Do not harvest grain and straw within 50 days of application. Do not harvest forage within three days of application. Do not harvest hay within 15 days of application.</p> <p><b>[**Not registered for use in New York]</b></p>		
	Grasshopper	1 - 2	<p>For best results, apply when the majority of infesting grasshoppers have reached the 2nd to 3rd nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.</p>
	Cereal leaf beetle	4	<p>For best results, apply at first sign of egg laying. Do not apply if infestation has advanced into later instar larvae.</p>
<p><b>Aerial Application:</b> Apply in 2 to 5 gallons total volume per acre.  <b>Ground Application:</b> Apply in 5 to 15 gallons of total volume per acre. Use sufficient application volume to assure adequate coverage. Because of the unique mode of action of <b>DIMILIN 2L</b>, its visible effects on larvae and nymphs may not be seen until 5 to 7 days following application.</p>			

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
CARROT[*], [**] (Not grown for seed)	<p><b>CARROT (not grown for seed) RESTRICTIONS:</b> Do not apply this product to carrots grown for seed. Do not apply more than 16 fl oz of <b>DIMILIN 2L</b> (4.0 oz diflubenzuron ai) per acre per calendar year. Do not make more than 2 applications per calendar year. Allow a minimum of 7 days between treatments.</p> <p><b>Pre-harvest Interval:</b> Allow at least 7 days after treatment before harvest.</p> <p><b>[* Not registered for use in California]</b>  <b>[**Not registered for use in New York]</b></p>		
	Carrot weevil	8	Apply at first sign of larval infestation.
	<p><b>Ground application:</b> Apply <b>DIMILIN 2L</b> in sufficient water using 20 to 50 gallons of water per acre.</p>		



Crops	Pests	Application Rate (fl oz/acre)	Application Timing
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; trifoliolate orange; uniq fruit; cultivars, varieties, and/or hybrids of these	<b>CITRUS FRUIT GROUP 10-10 RESTRICTIONS:</b> <b>Maximum DIMILIN 2L allowed per year:</b> Do not apply more than 60 fl oz of <b>DIMILIN 2L</b> (15 oz diflubenzuron ai) per acre per calendar year. <b>DIMILIN 2L</b> may be applied as three full rate applications of 20 fl oz per acre per calendar year, or six split applications of 10 fl oz per acre per calendar year, or a combination of full and split applications. <b>Maximum number of applications allowed per calendar year:</b> three full rate applications or six split applications, not to exceed 60 fl oz of <b>DIMILIN 2L</b> (15 oz diflubenzuron ai) per acre per calendar year. <b>Re-treatment interval:</b> Repeat applications no closer than 30 days apart, except where split applications are used. See the following pest specific sections for split application directions. <b>Pre-harvest interval:</b> Do not apply within 7 days of harvest. Do not harvest cover crops for animal feed or graze livestock in treated groves. <b>Ground Application:</b> <b>DIMILIN 2L</b> may be applied by ground using hand-held, hand gun, air blast or air assisted equipment. Do not apply within 25 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. <b>In the State of Florida,</b> 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 the 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. <b>Aerial Application:</b> Use fixed-wing or rotary equipment. Do not apply within 150 feet of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. <b>In the State of Florida,</b> do not apply within 1000 feet of estuarine/marine bodies of water. <b>DIRECTIONS FOR USE</b> <b>Spray Volumes:</b> Use sufficient spray volume for thorough coverage of leaf surfaces. For High Volume: Ground = 50 to 1,000 gallons per acre; Aerial= 5 to 20 gallons per acre. For low volume application: Spray nozzles that produce a droplet size with a volume median diameter of 90 microns or larger are required (see the following pest specific sections). Note: 1 fl oz <b>DIMILIN 2L</b> per acre equals 0.0156 pounds active ingredient per acre.		
	Asian Citrus Psyllid (ACP) ( <i>Diaphorina citri</i> )	20	Apply 20 fluid ounces of <b>DIMILIN 2L</b> per acre when very early-feather leaf flush is present, or oviposition by Asian citrus psyllid (ACP) is expected or seen, or leaf distortion is evident. <b>Split Application:</b> Applying split applications of <b>DIMILIN 2L</b> will maximize spray coverage of the entire citrus leaf flush. Spray 10 fluid ounces per acre when very early-feather leaf flush is present, or oviposition by ACP is expected or seen, or leaf distortion is evident. Apply the second application of <b>DIMILIN 2L</b> at 10 fluid ounces per acre as needed to protect new flushes of growth. Do not apply subsequent applications of <b>DIMILIN 2L</b> for at least 30 days. <b>Low Volume Application:</b> Except in California, apply in 3.0 to 5.0 gallons of finished spray solution per acre by ground using air-blast or air-assisted spray equipment. <b>Spray nozzles that produce a droplet size with a volume median diameter of 90 microns or larger are required.</b> In California, do not apply in a volume of less than 10 gallons per acre. The addition of petroleum spray oil, such as FC435-66, enhances spray coverage and penetration of <b>DIMILIN 2L</b> into ACP eggs, nymphs, and adults; improving activity on each life stage. <b>DIMILIN 2L's</b> activity on ACP is through contact, ingestion and/or absorption. It has direct activity on eggs and nymphs of ACP. <b>DIMILIN 2L</b> prevents eggs from hatching and nymphs from molting when exposed to treated surfaces. Adult female ACP that feed on or contact treated surfaces produce fewer eggs able to hatch. <b>DIMILIN 2L</b> reduces the reproductive potential of an existing ACP population. <b>DIMILIN 2L does not control adult ACP.</b>
	Citrus Rust Mite ( <i>Phyllocoptruta oleivora</i> )	20	Apply <b>DIMILIN 2L</b> at 20 fluid ounces per acre when citrus rust mites (CRM) are first observed on citrus leaves and/or fruit. Rotate to a product with a different mode of action before reapplying <b>DIMILIN 2L</b> in a CRM control program. The addition of petroleum spray oil, such as FC435-66, enhances spray coverage and penetration of <b>DIMILIN 2L</b> into immature CRM; improving activity on each stage of instar. Petroleum spray oil also aids knockdown of the CRM population present at application. <b>DIMILIN 2L's</b> activity is on immature stages of CRM and has its greatest activity on late-instar CRM. <b>DIMILIN 2L</b> prevents immature CRM from molting. The full effect of <b>DIMILIN 2L</b> on a CRM population may not be apparent for up to 14 days after application. <b>DIMILIN 2L does not control CRM eggs or adults.</b>

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
COTTONSEED SUBGROUP 20C  Cultivars, varieties and/or hybrids of these	<b>COTTONSEED SUBGROUP 20C RESTRICTIONS:</b> Do not exceed 6 applications per season. Do not apply more than 24 fl oz of <b>DIMILIN 2L</b> (6 oz diflubenzuron ai) per acre per calendar year. Do not exceed 3 applications and 12 fl oz (3 oz diflubenzuron ai) per acre per calendar year post boll opening. <b>Pre-harvest Interval:</b> Do not harvest within 14 days of application.		
	Beet armyworm - early season before first bloom	2 - 4	For early infestations on young cotton, apply <b>DIMILIN 2L</b> at the first sign of beet armyworm activity (2 egg masses or hatch outs/100 feet of row) in multiple applications, either as directed or broadcast spray. Use on a 5- to 7-day interval until 8 fl oz per acre have been applied. Multiple applications of <b>DIMILIN 2L</b> will provide acceptable beet armyworm control and because it has little activity on beneficial insects (parasites and predators) and has good persistence, will help prevent populations of beet armyworm from building up later in the growing season. Use of <b>DIMILIN 2L</b> in this way allows for more complete coverage of new foliage during the period of rapid vegetative growth.
	Beet armyworm - mid season	4 - 8	Apply starting around first bloom and through mid-bloom. Repeat application until up to 8 fl oz per acre have been applied, using a 5- to 7-day interval between applications. Use higher application rate on larger cotton and/or under conditions of greater larval pressure. Apply first application to coincide with peak beet armyworm moth catches in pheromone traps, indicating another generation of larvae is imminent. <b>DIMILIN 2L</b> is more effective on early stages of larval development, therefore treat cotton leaves before populations become established.
	Beet armyworm - late season	6 - 8	Apply after mid-bloom and prior to 14 days before harvest. Use higher application rate on larger cotton and/or under conditions of greater larval pressure. Coincide application with peak beet armyworm moth catches in pheromone traps. Additional applications may be needed if larval pressure continues.
	Fall armyworm Yellowstriped armyworm Southern armyworm Suppression only: Soybean looper Cabbage looper Saltmarsh caterpillar	4 - 8	Apply during early stages of larval development. Repeat application until at least 8 fl oz per acre have been applied using a 5- to 7-day interval.
	Boll weevil - early season (before first bloom)	4 - 8	<b>DIMILIN 2L</b> will control boll weevil by suppressing reproduction. Apply with 2 to 4 qt of emulsified cottonseed oil, vegetable oil, or paraffinic crop oil. A compatibility agent may be needed if a non-emulsified cotton-seed oil is used. Consult your supplier or company representative for oil specifications. For best suppression of boll weevil reproduction, make first application at pinhead square stage of cotton growth when overwintering boll weevils are entering the fields. Repeat applications must allow a minimum of 7 days between applications. <b>DIMILIN 2L</b> does not kill the adult boll weevil; however, eggs deposited by affected female weevils will not hatch, thus limiting reproduction. The control of egg hatch and larval development within the square prevents its shedding and will then allow normal boll development. After the initial treatment of the female weevil, 7 to 10 days are required before non-hatching eggs are laid; however, once affected, non-hatching eggs will be laid for approximately 10 days, and longer if the female encounters more <b>DIMILIN 2L</b> . Thus treat early and use multiple applications.
	Boll weevil	2 - 4	<b>DIMILIN 2L</b> will reduce the number of weevils that emerge in the following spring if applications are made when adult weevils are going into diapause to overwinter. Apply when cotton plant has reached full vegetative growth or when it begins blooming out the top. For LV application spray in combination with 2 to 4 qt of an emulsifiable vegetable or paraffinic oil per acre. A compatibility agent may be needed if a non-emulsified cottonseed oil is used. Apply at least 2, but not more than 3, applications at 7- to 14-day intervals.
	Grasshopper	2	Apply when the majority of infesting grasshoppers have reached the 2nd to 3rd nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
	<p><b>Aerial application:</b> Apply in 3 to 5 gallons total volume per acre.  <b>Ground application:</b> Apply in 10 to 20 gallons of total volume per acre.  <b>Adjuvant usage:</b> Always use oil (1 to 2 qt) with <b>DIMILIN 2L</b> for larval/nymphal control if conditions are favorable for water evaporation (e.g. high air temperature and/or low humidity). For ground or aerial LV application, use 1 pt to 2 qt of emulsified vegetable or paraffinic crop oil to enhance canopy penetration and to reduce spray droplet evaporation and subsequent drift. A compatibility agent may be needed if non-emulsified cottonseed oil is used.  Consult your supplier or company representative for oil specifications.  Use sufficient application volume to assure adequate coverage. <b>DIMILIN 2L</b> may be mixed with other insecticides being applied for other cotton insects. When emulsifiable concentrate insecticide formulations are used with oil and <b>DIMILIN 2L</b> in tank mixes, they may result in phytotoxicity. Care must be taken where such mixture is used. Because of the unique mode of action of <b>DIMILIN 2L</b>, its visible effects on larvae/nymphs may not be seen for 5 to 7 days following application.</p>		
GRASSLAND <sup>***</sup> (includes 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 grown for biofuel, biomass or bioenergy production)	<b>GRASSLAND RESTRICTIONS:</b> Do not apply more than a total of 2 fl oz of <b>DIMILIN 2L</b> (0.5 oz diflubenzuron ai) per acre per cutting. Do not apply more than 6 fl oz of <b>DIMILIN 2L</b> (1.5 oz diflubenzuron ai) per acre per calendar year. Allow at least 1 day after treatment before cutting grass. Apply only when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).		
	<b>[**Not registered for use in New York]</b>		
	Grasshopper	1 - 2	Use 1 application on early instar (majority in the 2nd through 4th instar nymphal stages); use high rate for pastureland.
	Mormon cricket	0.75 – 1	Use on rangeland only, in a RAATs (Reduced Area and Agent Treatment) application on early instars. A RAATs application is an IPM strategy that takes advantage of grasshopper movement and conservation biological, control to allow <b>DIMILIN 2L</b> to be applied on rangeland on a reduced treated area and at reduced rates, while sustaining acceptable control. RAATs may provide ranchers with an economic means to reduce competition by these insects on their rangeland, depending on insect age and plant canopy. Using this program <b>DIMILIN 2L</b> may be applied on as little as 50% of the infested acreage (e.g. skipping a 100-ft swath for every 100 ft treated), up to 100% infested acreage. The rate range to use per acre and amount of area treated will depend on grasshopper/Mormon cricket age, plant canopy and topography. Skip up to 50% of the infested area and use the lower rate under uniform topography with early instar ages and sparse vegetation. If the majority of the population is late instars, vegetation is dense, terrain is considered rough, and conditions are hot during treatment, increase the coverage and rate of <b>DIMILIN 2L</b> up to a blanket (100%) coverage with 1 fl oz per acre.
		0.5 - 1	If a second application is made, typically apply 2 to 3 weeks after the first application.
Lepidopteran foliage feeding caterpillars such as: Fall armyworm Striped grass looper	2	For maximum control use <b>DIMILIN 2L</b> at first sign of hatch outs and prior to larvae reaching fourth instars (<1/2 inch). <b>DIMILIN 2L</b> must be ingested and larvae must molt before populations are reduced.	
Horn fly Face fly	2	Apply <b>DIMILIN 2L</b> for the control of Horn fly and Face fly emergence from cattle manure patties for two weeks or longer.	

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
			<p>Apply <b>DIMILIN 2L</b> at 2 fl oz/acre to biofuel, biomass, or bioenergy grown grasses/forages/cellulosic crops (such as switchgrass, <i>miscanthus</i> sp., etc.) for control of Lepidopteran foliage feeding caterpillars (armyworms, grass looper, etc.), grasshoppers, or Mormon crickets.</p> <p><b>Aerial application:</b> For low/high volume application, apply in 2 to 10 gallons of water per acre. For rangeland ULV application, apply in a minimum of 12 fl oz total volume per acre.</p> <p><b>Ground application:</b> For low/high volume application, apply in 2 to 30 gallons of water per acre. For rangeland ULV application, apply in a minimum of 12 fl oz total volume per acre.</p> <p>Regardless of application type, total spray volume used must ensure thorough coverage of the target crop. For aerial and ULV spray mixtures include an evaporation/drift retardant product at use rates prescribed on the specific product label, particularly when conditions are favorable for water evaporation (e.g., high air temperature and/or low humidity). When using oil type evaporation/drift retardant products, be sure to maintain a ratio of at least 2 parts water to 1 part oil. For low volume and ULV applications, make sure that the spray mixture in the boom contains the correct concentration of <b>DIMILIN 2L</b> before application begins, and be sure that good agitation is maintained throughout mixing and application.</p> <p>Higher listed rates and gallonages are suggested for areas with dense vegetation, when nymphs are beyond the 3rd instar stage, and when climatic conditions are favorable for grasshopper/Mormon cricket survival and increase.</p> <p>Apply any time after eggs begin to hatch through early instars. <b>DIMILIN 2L</b> remains active on the foliage and will continue to control larvae and grasshoppers/Mormon crickets that hatch later in the season. <b>DIMILIN 2L</b> is not effective in controlling larvae and grasshoppers/Mormon crickets once they have reached the adult stage. Since it is an insect growth regulator, effects may not be seen until these insects have molted at least once. If adult grasshoppers/Mormon crickets from early hatching and/or overwintering species are present, tank-mix <b>DIMILIN 2L</b> with a registered adulticide to control later hatching species. Check mixing compatibility and sprayability prior to transferring to the main spray tank.</p> <p>Besides a fatal incomplete molting, adult grasshoppers/Mormon crickets may exhibit missing posterior legs, hernias, abdominal segments malformed, twisted antennae, hemolymph exudation, and wrinkled wings. Additionally, they may move slower, have limited jumps and unsteady landings, show a reduction in feeding, have atrophy of posterior legs or be unable to fly. Any nymph/adult possessing these symptoms is likely more susceptible to predatory insects, birds and mammals.</p>

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
LEAFY BRASSICA SUBGROUP 5B[**] includes: Broccoli raab; Cabbage; Chinese (bok choy); Collards; Kale; Mizuna; Mustard greens; Mustard spinach; Rape greens; Turnip greens			<p><b>LEAFY BRASSICA SUBGROUP 5B RESTRICTIONS:</b> Do not make more than 4 applications per season. Do not apply more than 16 fl oz of <b>DIMILIN 2L</b> (4 oz diflufenzuron ai) per acre per calendar year. Do not use on turnip cultivars or varieties which produce a harvestable root.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 7 days of application.</p> <p><b>[**Not registered for use in New York]</b></p>
	Grasshopper	2 - 4	<p>Apply to grasshoppers in the 2nd to 3rd nymphal stage of development. Reapply in 7-day intervals if nymphal hatchout/crop reinfestation continues. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. Use the higher listed rate in the range if the area has a history of heavy infestations, dense foliage is present, or greater residual control is desired. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank-mix with a knockdown insecticide under these conditions.</p>
			<p><b>Ground Application:</b> Use a minimum of 30 gallons of water per acre to give uniform coverage. Additional applications allow for more complete coverage of newly expanding foliage.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae and nymphs must ingest treated plant material and then molt before populations are reduced. Thus initial signs of control may not be seen until 5 to 7 days after treatment.</p>

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
LIVESTOCK / POULTRY PREMISES[**] includes: -Litter -Stale / waste feed -Manure -Manure / straw mixtures -Feed muck / spoilage -Spoiled organic refuse -Bedding material -Floors			<p><b>LIVESTOCK/POULTRY PREMISES RESTRICTIONS:</b> Do not apply directly to livestock or poultry. Do not contaminate feed or water through application-cover or remove exposed feed and water from the area to be treated. Band and broadcast applications (for indoor use only) - Apply only once per production cycle at a rate not to exceed 520 fl oz of <b>DIMILIN 2L</b> per calendar year. Spot treatment applications - For outdoor use, do not apply more than 7.5 fl oz of <b>DIMILIN 2L</b> per acre per application and do not exceed 17 applications per calendar year. For indoor use, do not apply more than 520 fl oz of <b>DIMILIN 2L</b> per acre per calendar year. Manure and process wastewater shall not be applied closer than 100 feet to any down gradient surface waters, open tile line intake structures, sinkholes, agricultural or domestic well heads, or other conduits to surface waters, unless a 35-foot wide vegetated buffer or physical barrier is substituted for the 100-foot setback or alternative conservation practices or field-specific conditions will provide pollutant reductions equivalent or better than the reductions achieved by the 100-foot setback.</p> <p><b>[**Not registered for use in New York]</b></p>
	Carrion Beetle[*] Darkling Beetle[*] Hide Beetle[*]	12 fl oz/1000 ft <sup>2</sup> in 2 to 20 gals water per 1000 ft <sup>2</sup>	<p><b>Broadcast Application:</b> Apply as a whole house broadcast spray to the litter following de-caking, as well as to floors, walls, posts, cage frames, and cracks and crevices around insulation. When treating the litter, pay particular attention to areas under feed and water lines. Apply in sufficient volume to uniformly and thoroughly wet the litter and other surfaces- spray volume will vary depending on the depth of litter being treated.</p>

-Walls / wall footings -Posts -Cage frames -Ceilings	<b>[*Not registered for use in California]</b>		<b>Band Application:</b> When the whole house is not being treated, application can be made to areas where pests are concentrated, such as under feed and water lines, as well as along perimeter walls and side / end walks. Apply in sufficient volume to thoroughly wet litter following de-caking in a 2- to 4-foot wide band under and next to these areas- spray volume will vary depending on depth of litter. Lower sections of walls, posts and cage frames should also be treated at least 1 foot up from the floor.
	House fly Stable fly Face Fly Horn Fly	12 fl oz/1000 ft <sup>2</sup> in 2 to 20 gals water per 1000 ft <sup>2</sup>	<b>Broadcast Application:</b> Apply as a whole house broadcast spray or spot treatment to the litter between production cycles following clean out or de-caking, as well as to floors, walls, posts, cage frames and ceilings. When treating the litter, pay particular attention to moist areas under feed and water lines. Apply in sufficient volume to uniformly and thoroughly wet the litter and other surfaces- spray volume will vary depending on the depth of litter being treated.
		7.5 fl oz in 15 gals water	<b>Spot Treatments:</b> Apply as a directed spray at a volume of 1 quart of spray solution to 10 sq ft of surface area. 15 gallons of spray solution will treat 600 sq ft. Begin applications when flies first appear. Additional applications may be made at 3-week intervals as needed, if adult fly numbers begin to increase, typically at 2- to 3-week intervals. For spot treatment in poultry houses, make applications only between production cycles, and not while birds are in the houses.
Livestock / poultry operations includes farms, farm buildings, barns, feedlots, dairies, equine facilities, poultry houses, and other production facilities. Application sites within these operations also include fence lines of holding pens, feed troughs, feed bunks, hay bale feeders, water troughs; and marginal areas of waste retention ponds. For insect control around hay feeding sites, treat the entire area where manure and waste hay are mixed at the soil surface by livestock activity. <b>DIMILIN 2L</b> will not control adult or pupal stages but does provide extended control of eggs and developing larvae. Exposure to adults, however, through contact or ingestion, does impact their reproductive potential, resulting in reduced numbers and viability of eggs. If a large adult population already exists at the time treatment is to be made, application with a knockdown insecticide either alone or in a tank mix with <b>DIMILIN 2L</b> may be desirable to achieve rapid reduction of that population.			

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
NON-CROP AREAS <sup>[**]</sup> (includes field border, fence rows, roadsides, farmsteads, ditchbanks, wasteland, Conservation Reserve Program CRP Land)	<b>NON-CROP AREA RESTRICTIONS:</b> See Grassland section for restrictions. <b>[**Not registered for use in New York]</b>		
	Grasshopper Mormon cricket	2	Apply <b>DIMILIN 2L</b> to manage these insects in their breeding areas before they move into cropland. See Grassland section for timing of application.
	Lepidopteran foliage feeding caterpillars such as: Fall Armyworms Striped Grass Looper	2	For maximum control use <b>DIMILIN 2L</b> at first sign of hatch outs and prior to larvae reaching fourth instars (<1/2 inch). <b>DIMILIN 2L</b> must be ingested and larvae must molt before populations are reduced.
	<b>Aerial application:</b> See <b>Aerial application</b> section of Grassland. <b>Ground application:</b> See <b>Ground application</b> section of Grassland.		



Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEACH SUBGROUP <sup>[**]</sup> 12-12B includes: nectarine and peach and cultivars, varieties and hybrids of these.  PLUM SUBGROUP12-12C includes: Apricot; Japanese apricot; Chinese jujube; Plum; American plum; Beach plum; Canada plum; cherry plum; Chickasaw plum; Damson plum; Japanese plum; Klamath plum; Prune plum; Plumcot; Sloe; cultivars, varieties and hybrids of these.	<b>PEACH AND PLUM RESTRICTIONS:</b> Do not make more than two applications per calendar year. Do not apply more than 32 fl oz of <b>DIMILIN 2L</b> (8 oz diflubenzuron ai) per acre per calendar year. Allow at least 14 days between applications. <b>Pre-Harvest Interval:</b> Allow at least 14 days after treatment before harvest.  <b>[**Not registered for use in New York]</b>		
	Peach twig borer	12 – 16	Apply <b>DIMILIN 2L</b> at a rate 12 - 16 fl oz/acre (0.1875 lb ai to 0.25 lb ai/acre). Two applications can be made with a 14-day interval between applications. <b>Dormant/delayed dormant:</b> Apply <b>DIMILIN 2L</b> with 4 to 6 gallons per acre (1.5 to 2.0 gallons per 100 gallons in a dilute spray) narrow range oil. Always use the higher listed rate of <b>DIMILIN 2L</b> if the crop has a history of heavy infestations. <b>Bloom to Harvest:</b> Apply starting at early bloom. Vegetable oil may be used during bloom at the rate of 1 qt per acre. Always use the higher listed rate in the range if the crop has a history of heavy infestations.
	Fall webworm Filbert leafroller Oblique banded leafroller Omnivorous leafroller Omnivorous leaf tier Oriental fruit moth Redhumped caterpillar Variegated leafroller Walnut caterpillar Winter moth Codling moth <sup>[*]</sup> Katydid <sup>[*]</sup> Plum curculio <sup>[*]</sup> <b>[*Not registered for use in California]</b>	8 - 16	Apply <b>DIMILIN 2L</b> at a rate of 8 to 16 fl oz/acre (0.125 lb ai to 0.25 lb ai/acre). Two applications can be made with a 14-day interval between applications. Apply <b>DIMILIN 2L</b> at first sign of larval infestation. Use the higher listed rate for longer residual control, higher pest infestations, low crop load, larger trees or heavy, dense foliage. For adult control of plum curculio, tank mix with an adulticide.
	Ground applications must be made in sufficient water for thorough coverage, using at least 50 gallons per acre for small trees (10 feet tall) and at least 100 gallons per acre for larger trees. Using insufficient water for thorough coverage and/or using an uneven spray pattern across the canopy will likely result in less than desired efficacy.  Adjuvant: Crop oil at a rate of 0.25% v/v may be included in the tank mixture.		

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEANUTS <sup>[**]</sup>	<b>PEANUT RESTRICTIONS:</b> Do not make more than 3 applications per season. Do not apply more than 24 fl oz of <b>DIMILIN 2L</b> (6 oz diflubenzuron ai) per acre per calendar year. <b>Pre-harvest Interval:</b> Do not harvest within 28 days of application.  <b>[**Not registered for use in New York]</b>		
	Velvet bean caterpillar Mexican bean beetle Green cloverworm	2 – 4	Make applications when larvae are small (< 0.5 inches) to give greater control and minimum insect damage to leaves. Repeat application if damaging numbers reappear. The minimum reapplication interval is 14 days. Use the higher listed rate in the range if the crop has a history of heavy infestations, dense foliage is present, or greater residual control is desired.
	Redneck Peanut Worm <sup>[*]</sup>  <b>[*Not registered for use in California]</b>	4	
	Armyworms, such as: Beet armyworm Fall armyworm Southern armyworm Yellow-striped armyworm Lesser cornstalk borer Soybean looper (suppression)	4 – 8	



Grasshopper	2	For best results, apply when the majority of infesting grasshoppers have reached the 2nd to 3 <sup>rd</sup> nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding. Use a tank mix with a knockdown insecticide under these conditions.
<p><b>Aerial Application:</b> Apply in sufficient water (3 to 5 gallons per acre) to achieve uniform coverage of foliage.</p> <p><b>Ground Application:</b> Apply in 9 to 35 gallons of water per acre to give uniform coverage.</p> <p><b>Adjuvant Usage:</b> See Cotton section.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae/nymphs must ingest treated plant material and then molt before populations are reduced. Thus initial signs of control may not be seen until 5 to 7 days after treatment.</p>		

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEARS[**]	<p><b>PEARS RESTRICTIONS:</b> Do not apply more than 4 applications per year. Do not apply more than 64 fl oz of <b>DIMILIN 2L</b> (16 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 14 days of application.</p> <p>Do not use oil in tank mix in late season treatments (3rd and 4th applications).</p> <p><b>[**Not registered for use in New York]</b></p>		
	Pear psylla (pre-bloom)	40 - 48	Apply in 80 to 400 gallons of water per acre during the delayed dormant to the popcorn stage period. Complete uniform coverage of the tree is essential to achieve insect control. A horticultural mineral oil should be used at a rate of 4 to 6 gallons per acre during the delayed dormant period. After this period and through the popcorn stage, apply oil at a concentration of 0.25%, but use no more than 1 gallon per acre. A surfactant may be used to improve coverage. Follow manufacturer's label specifications. <b>DIMILIN 2L</b> should be applied during egg deposition so that it will come in contact with pear psylla eggs and/or 1st and 2nd instar nymphs.
	Pear psylla (post-bloom)	12 - 16	Applications at normal codling moth rates and timings will provide suppression of pear psylla.
	Pear rust mite (pre-bloom)	40 - 48	Apply in 80 to 400 gallons of water per acre from delayed dormant to the popcorn stage. See 'Pear psylla (pre-bloom)' for the use of oil.
	Codling moth	12 - 16	<p>Apply in a minimum of 80 gallons of water per acre. Use the lower rate where there is light codling moth pressure and/or on small trees. Complete coverage of the fruit and foliage in all areas of the trees is essential for insect control. Timing of application is extremely important because <b>DIMILIN 2L</b> controls codling moth by prohibiting the hatching of eggs. It must be applied prior to egg laying so that eggs are laid on treated plant parts.</p> <p>Apply first application as soon as possible after first moths are caught (biofix) or observed, or about 50- to 75-degree-days after biofix. This timing can be determined by your local pest control consultant and/or fruit specialist with the aid of pheromone traps. Normally this timing occurs at late petal fall or about 10 to 14 days earlier than the timing used for organophosphate insecticides.</p> <p>Apply second application about 14 to 18 days after the first.</p> <p>If necessary, apply third and fourth application, timed prior to egg laying of the 2nd generation by using the same method as for the 1st generation. If traps are not used, make the 3rd application 21 to 30 days after the second, followed by the 4th application 21 to 30 days later. If a degree day model is used the 3rd spray should be timed at 1000-degree-days after biofix.</p> <p>Combination with organophosphates for codling moth control: <b>DIMILIN 2L</b> can be used in combination with an organophosphate insecticide, to save a trip through the orchard and to make timing of the <b>DIMILIN 2L</b> sprays easier. The combination is more effective than <b>DIMILIN 2L</b> alone when controlling moderate to heavy codling moth infestations and/or treating large trees. The combination will provide residual control of eggs laid after application. Apply <b>DIMILIN 2L</b> and the organophosphates at their labeled rates. Apply at the beginning of egg hatch of 1st generation codling moth. This is the normal timing for the first organophosphate cover spray (250-degree-days following biofix for 1st generation and 1250-degree-days for the 2nd generation). This program can be repeated for the 2nd or 3rd generation of codling moth or use <b>DIMILIN 2L</b> alone prior to egg laying. Do not use oil in tank mix with <b>DIMILIN 2L</b> in late season treatments. With light codling moth populations, as indicated by monitoring, this combination may offer control of an entire generation with 1 application. When populations are heavy, this combination will improve control, but it may not control an entire generation with one spray. A second spray of <b>DIMILIN 2L</b> alone or in combination may be applied 14 to 18 days later.</p>

	Leafminer	8 - 16	Apply in a minimum of 80 gallons of water just prior or during egg laying to control eggs and larvae. Timing for control of the 1st or 2nd generation can be determined by your local pest control consultant or fruit specialist. Should later generations of leafminers occur, apply <b>DIMILIN 2L</b> in the same manner.  It is desirable to have <b>DIMILIN 2L</b> in place at the time of egg laying. It will continue to give control through the early sap feeding stage. Complete coverage of the foliage is essential to achieve control of the larvae through the early sap feeding stage.
Oil may cause injury to certain pear varieties. Check compatibility of oil mixtures with your local tree fruit specialist.			

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEPPER/ EGGPLANT SUBGROUP**] 8-10B includes: African eggplant; bell pepper; eggplant; martynia; nonbell pepper; okra; pea eggplant; pepino; roselle; scarlet eggplant; cultivars, varieties, and/or hybrids of these.	<b>PEPPER/EGGPLANT SUBGROUP 8-10B RESTRICTIONS:</b> Up to five applications per growing season may be made, but do not apply more than 24 fl oz of <b>DIMILIN 2L</b> (6 oz diflubenzuron ai) per acre per calendar year. Allow a minimum of seven days between any two applications. <b>Pre-harvest interval:</b> Do not apply within seven days of harvest. <b>[**Not registered for use in New York]</b>		
	Beet armyworm Fall armyworm Southern armyworm and other foliage feeding Lepidopteran insects	4 – 8	Make initial application of 4 - 8 fl oz <b>DIMILIN 2L</b> per acre when larvae are small to give greater control and minimum damage to leaves and/or to fruit. Use a higher listed rate if being applied alone and/or infestation is considered heavy. A knockdown tank-mix partner should be used if late instar larvae are present. Use a minimum of 30 gallons of water per acre to give uniform coverage. Additional applications allow for more complete coverage of new foliage and expanding fruit.
	Pepper weevil	4 - 8	Apply <b>DIMILIN 2L</b> at 4 - 8 fl oz per acre starting at initial flowering. Use at the higher listed rate if adult infestation is considered moderate to heavy. Apply additional applications at 7-day intervals up to 7 days before harvest. Additional applications allow for more complete coverage of new foliage and expanding fruit. Note that <b>DIMILIN 2L</b> will not control adults; however eggs laid by adults will exhibit reduced hatching in fruits once adults have consumed or contacted residues of <b>DIMILIN 2L</b> on pepper tissue.
	<b>Aerial application:</b> Apply in sufficient water (3 to 10 gallons per acre) to achieve uniform coverage of foliage. <b>Ground application:</b> Use a minimum of 30 gallons of water per acre to give uniform coverage. <b>Adjuvant Usage:</b> See Cotton Section. Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae and nymphs must ingest treated plant material and then molt before populations are reduced. Thus initial signs of control may not be seen until 5 to 7 days after treatment.		

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
RICE	<b>RICE RESTRICTIONS:</b> Do not apply more than 16 fl oz of <b>DIMILIN 2L</b> (4 oz diflubenzuron ai) per acre per calendar year. <b>Pre-harvest Interval:</b> Do not harvest within 80 days of application. Do not use on rice fields in which crayfish (crawfish) farming is included in the cultural practice. Do not drain treated water into fields where crayfish farming is intended Do not apply to rice immediately adjacent to sites of crayfish aquaculture. Do not use treated rice flood waters for irrigated crops except for uses currently established for <b>DIMILIN 2L</b> . Do not impregnate on granular materials. Do not use on wild rice ( <i>Zizania</i> spp.).		
	Rice water weevil (Southern U.S. Rice Belt) -for drill seeded; dry seeded; or water seeded, delayed flood rice	12 – 16	Make a single application of <b>DIMILIN 2L</b> per acre per year to control larvae when adult infestations reach economic threshold and/or at initial oviposition, usually within a time frame of 2 to 5 days after permanent flood establishment. If adult weevil infestations are historically high and/or migration into the field is prolonged, use the higher listed application rate.
	Rice water weevil (Southern U.S. Rice Belt) water seeded, pinpoint flood, or continuous flood rice	8 + 8	To control larvae, apply split applications. Apply 8 fl oz per acre after the permanent flood when adult infestations reach economic threshold and/or at initial oviposition, usually when rice leaves are exposed above the water surface. The 2nd 8 fl oz treatment must be made 5 to 7 days after the 1st application. Failure to make the second application 5 to 7 days after the 1 <sup>st</sup> application could result in inadequate control of rice water weevil larvae, especially if adult infestations are high and/or migration into the field is prolonged.
	Rice water weevil (California)	8 - 16	To control larvae apply <b>DIMILIN 2L</b> once per year at initiation of oviposition by adults. During a typical year this coincides with 2 to 8 days after rice emergence above the water. Target the application for 2 to 5 days after rice emergence above the water (2- to 4-leaf stage). Use 12 - 16 fl oz <b>DIMILIN 2L</b> if infestations have been historically high.
Consult your local extension service for determination of economic threshold and/or determination of oviposition. <b>DIMILIN 2L</b> does not appear to control adult weevils. It controls rice water weevil by preventing larval emergence from the egg. Eggs laid under the surface of treated water are controlled. Additionally, adults feeding on treated plant surfaces do not lay viable eggs. Apply <b>DIMILIN 2L</b> by air using at least 5 gallons total volume per acre. Do not apply <b>DIMILIN 2L</b> if flooding is in progress. Activity will be reduced. Since <b>DIMILIN 2L</b> is water active, the entire field must be treated.			

For maximum activity of **DIMILIN 2L** do not disturb flood after a single application for at least 7 days. With split applications in water seeded, pinpoint or continuous flood rice, flood must not be disturbed for a minimum of 4 days following the 1st treatment and 7 days following the 2<sup>nd</sup> application. Hold treated water at least 14 days to allow for dissipation of **DIMILIN 2L**.

**DIMILIN 2L** is not phytotoxic to rice. **DIMILIN 2L** can be safely applied in combination with post permanent flood herbicides such as FACET<sup>®</sup>, GRANDSTAND<sup>®</sup> and LONDAX<sup>®</sup>. However, before using a tank-mix combination, read each product label carefully and follow Precautionary Statements on each label.

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
SOYBEANS[*]	<p><b>SOYBEANS RESTRICTIONS:</b> Do not make more than 2 applications per season. Do not apply more than 8 fl oz of <b>DIMILIN 2L</b> (2 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-Harvest Interval:</b> Do not harvest within 21 days of application.</p> <p><b>[*Not registered for use in California]</b></p>		
	Velvet bean caterpillar Mexican bean beetle Green cloverworm	2 - 4	Make applications when larvae are small (< 0.5 inches) to give greater control and minimum insect damage to leaves. Repeat application if damaging numbers reappear. The minimum reapplication interval is 30 days. <b>DIMILIN 2L</b> may be applied at the lower rate (2 fl oz) to prevent velvet bean caterpillar build-up when the vegetative growth of soybeans is completed and as pod formation begins. Consult local Extension Service regarding infestation levels requiring treatment.
	Beet armyworm Fall armyworm Soybean looper (suppression)	4	Application must be made when worms are small before populations build.
	Grasshopper	2	Apply when the majority of infesting grasshoppers have reached the 2nd to 3rd nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.
<p><b>Aerial application:</b> apply in sufficient water (3 to 5 gallons per acre) to achieve uniform coverage of foliage.</p> <p><b>Ground application:</b> apply in 9 to 35 gallons of water per acre to give uniform coverage.</p> <p><b>Adjuvant usage:</b> See Cotton Section.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae/nymphs must feed on it and then molt before populations are reduced. Thus initial signs of control may not be seen until several days after treatment.</p> <p><b>Soybean yield enhancement:</b> In the absence of significant insect pressure and under certain growing conditions, an increase in soybean seed yield has been demonstrated with <b>DIMILIN 2L</b> under field conditions on both determinate and indeterminate cultivars. Application of 2 - 4 fl oz per acre to high yield potential soybean plants at the R3 to R3.5 growth stage period has been more consistent in increasing yields than applications at other reproductive stages of the soybean plant. This reproductive period represents beginning pod growth (pod 3/16 inch long at one of the uppermost nodes on the main stem with a fully developed leaf) to just prior to full pod elongation (pod 3/4 inch long at one of the 4 uppermost nodes on the main stem with a fully developed leaf ).</p>			

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
<p>TREE NUTS GROUP 14-12[**] includes:  African tree nut  Almond  Beech nut  Brazil nut  Butternut  Brazilian pine  Bunya  Bur oak  Cajou nut  Candlenut  Cashew  Chestnut  Chinquapin  Coconut  Coquito nut  Dika nut  Filbert (hazelnut)  Ginkgo  Guiana chestnut  Heartnut  Hickory nut  Japanese horse chestnut  Macadamia nut (bush nut)  Mongongo nut  Pecan  Pistachio  Sapucaia nut  Tropical almond  Walnut (black &amp; English)  Yellowhorn  Cultivars, varieties, and/or hybrids of these</p>	<p><b>TREE NUTS GROUP 14-12 RESTRICTIONS:</b> Do not exceed 4 (3 for walnuts) applications. Do not apply more than 64 fl oz of <b>DIMILIN 2L</b> (16 oz diflubenzuron ai) per acre per calendar year.  <b>Pre-harvest Interval:</b> Do not harvest within 28 days of application.  <b>[**Not registered for use in New York]</b></p>		
	Codling moth	16	<p><b>DIMILIN 2L</b> is most effective when applied prior to egg laying. <b>DIMILIN 2L</b> must be present on the surface upon which eggs are laid; therefore, full coverage spray is necessary. Apply first application when moth flights begin or when moths are found in pheromone traps. Apply the 2nd application approximately 21 days after the 1st application. For control of the 2<sup>nd</sup> brood, application should be timed prior to egg laying, similar to 1st brood. Because of fluctuations in temperature, the emergence and moth flights of the over-wintering population may be extended over a long period of time. Under such circumstances, <b>DIMILIN 2L</b> should be tank mixed with an organophosphate insecticide at its lowest label rate. This tank mix should be applied at normal 1st organophosphate timing. Later in the season, if egg laying has already occurred before application of <b>DIMILIN 2L</b>, tank mix <b>DIMILIN 2L</b> with an organophosphate as previously described.</p>
	Filbert worm	12 – 16	<p>The lower rate may be used where filbert worm pressure is low and/or the trees are small. The higher listed rate is necessary when worm pressure is moderate to high and/or the trees are large. Apply <b>DIMILIN 2L</b> 2 to 3 days after the 1st moth is caught in pheromone detection traps. Mating takes place within several days of emergence and egg laying begins the next day. <b>DIMILIN 2L</b> must be applied prior to egg deposition on the treated foliage. Good uniform coverage of the tree is essential to achieve optimum control of filbert worm with <b>DIMILIN 2L</b>.  Normally <b>DIMILIN 2L</b> will give season long control. If moth pressure remains high, additional applications should be made.</p>
	Hickory shuckworm	8 - 16	<p>Apply split applications of <b>DIMILIN 2L</b> at 4 - 8 fl oz per acre when hickory shuckworm moth emergence begins or larval feeding is detected and then again two weeks later for maximum nut protection and hickory shuckworm control.  Apply <b>DIMILIN 2L</b> starting at half-shell hardening. Make subsequent applications at 21-day intervals to shuck split, or while nuts are susceptible to hickory shuckworm under heavy infestations. Use the higher listed rate under higher pest infestations, low crop load, larger trees or heavy, dense foliage.</p>
	Peach twig borer	12 - 16	<p><b>Dormant/delayed dormant:</b> Apply <b>DIMILIN 2L</b> at the rate of 12 - 16 fl oz per acre with 4 to 8 gallons per acre (1.5 to 2.0 gallons per 100 gallons in a dilute spray) narrow range oil. Always use the higher listed rate of <b>DIMILIN 2L</b> in the rate range if the crop has a history of heavy infestations.  <b>Bloom:</b> Apply <b>DIMILIN 2L</b> at the rate of 12 - 16 fl oz per acre starting at early bloom. Always use the higher listed rate of <b>DIMILIN 2L</b> in the rate range if the crop has a history of heavy infestations.  <b>Spring flight ("May Spray"):</b> Using pheromone traps to determine flight activity, apply <b>DIMILIN 2L</b> at the rate of 16 fl oz per acre at initial flight activity.  <b>Summer flight:</b> Using pheromone traps to determine flight activity, apply <b>DIMILIN 2L</b> at the rate of 16 fl oz per acre at initial flight activity.</p>
	Pecan nut casebearer	8 – 16	<p>Apply split applications of <b>DIMILIN 2L</b> at 4 - 8 fl oz per acre beginning at bud break and then again two weeks later for maximum nut set and pecan nut case bearer control. Normal timing in southeastern US would be from mid-April for bud break and then two weeks later (early May).  Apply <b>DIMILIN 2L</b> in split applications at the initiation of each adult generation to target egg hatch. Note for the 1st generation this is approximately 8 to 15 days following the first prolonged moth catch (biofix which is defined as the date on which the total of 5 moths are captured in 3 pheromone traps within a 7-day period). States may have a different recommendation for initiation of spraying; please consult authorities such as county and university extension specialists on current recommendations. Use the higher listed rate for longer residual control, higher pest infestations, low crop load, larger trees or heavy, dense foliage.</p>
	Pecan weevil (suppression)	8 – 16	Use the higher listed rate if weevils are attacking fruit and for higher infestations.
	Others, including: Fall webworm Filbert leafroller Oblique banded leafroller Omnivorous leafroller Omnivorous leaf-tier Oriental fruit moth Redhumped caterpillar	8 - 16	Apply <b>DIMILIN 2L</b> at the first sign of larval infestations. Use the higher listed rate for longer residual control, higher pest infestations, low crop load, larger trees or heavy, dense foliage.

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
	Variegated leafroller Walnut caterpillar Winter moth		
Apply ground applications in sufficient water for thorough coverage, using at least 50 gallons per acre for small trees (10 feet tall) and at least 100 to 300 gallons per acre for larger trees. Using insufficient water for thorough coverage and/or using an uneven spray pattern across the canopy will likely result in less than desired efficacy. If 4 applications are used, application timing should correspond to dormant to pre-bud swell, bloom to petal fall, and at leaves/immature nut fruit formation and at hull split.			

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
TURFGRASS <sup>[**]</sup> (For use in sod farms only)	<b>TURFGRASS (For use in sod farms only) Restrictions:</b> Do not exceed a total of 4 applications per year. Do not apply more than 8 fl oz of <b>DIMILIN 2L</b> (2 oz diflufenbuzuron ai) per acre per calendar year.  <b>[**Not registered for use in New York]</b>		
	Lepidopteran foliage feeding caterpillars such as: Sod webworm Armyworms, including: Fall, True, Southern, Beet, Yellow-striped, Striped Grass Looper, Granulate Cutworm	2	Apply <b>DIMILIN 2L</b> at first sign of hatchouts and prior to larvae reaching 4th instars (>1/2 inch). Apply in 20 to 50 gallons of water per acre depending on density of turf and caterpillar pressure. <b>DIMILIN 2L</b> must be ingested and larvae must molt before populations are reduced. Repeat applications at 14-day intervals or as needed to protect new foliage growth.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE** – Keep this product in its tightly closed original container only. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.

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

### CONTAINER HANDLING

**Plastic containers: Nonrefillable container.** Do not reuse or refill this container. Triple rinse or pressure rinse (or equivalent) promptly after emptying.

**Triple rinse** as follows: For containers small enough to shake: Empty the remaining contents into a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and then recap. Shake for 10 seconds. Pour rinsate into 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.

For containers too large to shake: Empty remaining contents into a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into a mix tank or store for later use or disposal. Repeat this procedure two more times.

**Pressure rinse** as follows: Empty the remaining contents into a mix tank and continue to drain for 10 seconds after the flow continues to drip. Hold container upside down over mix tank to collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Then** offer container for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**Recycling:** Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or [www.acrecycle.org](http://www.acrecycle.org).

### Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of MacDermid Agricultural Solutions, Inc. ("MacDermid"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

MacDermid warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MACDERMID DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MACDERMID, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF ARYSTA IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF MACDERMID, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT MACDERMID'S ELECTION, THE REPLACEMENT OF THE PRODUCT.**

DIMILIN is a registered trademark of an Arysta LifeScience Group Company.

Facet is a registered trademark of BASF AG.

Grandstand is a registered trademark of Dow AgroSciences.

Londax is a registered trademark of E.I. DuPont de Nemours and Company.

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# SUPPLEMENTAL LABELING

**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.

**ACCEPTED**  
06/06/2017  
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 400-461

**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on PEARS[\*\*].**  
[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

**INGREDIENTS:** \_\_\_\_\_ **% BY WT.**

**ACTIVE INGREDIENT:**

diflubenzuron

N-[[[4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide\* .....22%

**OTHER INGREDIENTS:** .....78%

**TOTAL:** .....100%

\*Contains 2 lb diflubenzuron per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION / PRECAUCIÓN**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN® 2L** BEFORE APPLYING. USE OF **DIMILIN 2L** ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN 2L (EPA Reg. No. 400-461)**.

xxxxxxV071Su

Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEARS[**]	<p><b>PEARS RESTRICTIONS:</b> Do not apply more than 4 applications per year. Do not apply more than 64 fl oz of <b>DIMILIN 2L</b> (16 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 14 days of application.</p> <p>Do not use oil in tank mix in late season treatments (3rd and 4th applications).</p> <p><b>[**Not registered for use in New York]</b></p>		
	Pear psylla (pre-bloom)	40 - 48	<p>Apply in 80 to 400 gallons of water per acre during the delayed dormant to the popcorn stage period.</p> <p>Complete uniform coverage of the tree is essential to achieve insect control. A horticultural mineral oil should be used at a rate of 4 to 6 gallons per acre during the delayed dormant period. After this period and through the popcorn stage, apply oil at a concentration of 0.25%, but use no more than 1 gallon per acre. A surfactant may be used to improve coverage. Follow manufacturer's label specifications. <b>DIMILIN 2L</b> should be applied during egg deposition so that it will come in contact with pear psylla eggs and/or 1st and 2nd instar nymphs.</p>
	Pear psylla (post-bloom)	12 - 16	Applications at normal codling moth rates and timings will provide suppression of pear psylla.
	Pear rust mite (pre-bloom)	40 - 48	Apply in 80 to 400 gallons of water per acre from delayed dormant to the popcorn stage. See 'Pear psylla (pre-bloom)' for the use of oil.
	Codling moth	12 - 16	<p>Apply in a minimum of 80 gallons of water per acre. Use the lower rate where there is light codling moth pressure and/or on small trees. Complete coverage of the fruit and foliage in all areas of the trees is essential for insect control. Timing of application is extremely important because <b>DIMILIN 2L</b> controls codling moth by prohibiting the hatching of eggs. It must be applied prior to egg laying so that eggs are laid on treated plant parts.</p> <p>Apply first application as soon as possible after first moths are caught (biofix) or observed, or about 50 to 75 degree-days after biofix. This timing can be determined by your local pest control consultant and/or fruit specialist with the aid of pheromone traps. Normally this timing occurs at late petal fall or about 10 to 14 days earlier than the timing used for organophosphate insecticides.</p> <p>Apply second application about 14 to 18 days after the first.</p> <p>If necessary, apply third and fourth application, timed prior to egg laying of the 2nd generation by using the same method as for the 1st generation. If traps are not used, make the 3rd application 21 to 30 days after the second, followed by the 4th application 21 to 30 days later. If a degree day model is used the 3rd spray should be timed at 1000 degree-days after biofix.</p> <p>Combination with organophosphates for codling moth control: <b>DIMILIN 2L</b> can be used in combination with an organophosphate insecticide, to save a trip through the orchard and to make timing of the <b>DIMILIN 2L</b> sprays easier. The combination is more effective than <b>DIMILIN 2L</b> alone when controlling moderate to heavy codling moth infestations and/or treating large trees. The combination will provide residual control of eggs laid after application. Apply <b>DIMILIN 2L</b> and the organophosphates at their labeled rates. Apply at the beginning of egg hatch of 1st generation codling moth. This is the normal timing for the first organophosphate cover spray (250 degree-days following biofix for 1st generation and 1250 degree-days for the 2nd generation). This program can be repeated for the 2nd or 3rd generation of codling moth or use <b>DIMILIN 2L</b> alone prior to egg laying. Do not use oil in tank mix with <b>DIMILIN 2L</b> in late season treatments. With light codling moth populations, as indicated by monitoring, this combination may offer control of an entire generation with 1 application. When populations are heavy, this combination will improve control, but it may not control an entire generation with one spray. A second spray of <b>DIMILIN 2L</b> alone or in combination may be applied 14 to 18 days later.</p>
Leafminer	8 - 16	<p>Apply in a minimum of 80 gallons of water just prior or during egg laying to control eggs and larvae. Timing for control of the 1st or 2nd generation can be determined by your local pest control consultant or fruit specialist. Should later generations of leafminers occur, apply <b>DIMILIN 2L</b> in the same manner.</p> <p>It is desirable to have <b>DIMILIN 2L</b> in place at the time of egg laying. It will continue to give control through the early sap feeding stage. Complete coverage of the foliage is essential to achieve control of the larvae through the early sap feeding stage.</p>	
Oil may cause injury to certain pear varieties. Check compatibility of oil mixtures with your local tree fruit specialist.			

Produced For:  
**MacDermid Agricultural Solutions, Inc.**  
c/o ARYSTA LIFESCIENCE NORTH AMERICA, LLC  
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Cary, NC 27513

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# SUPPLEMENTAL LABELING

**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.

**ACCEPTED**  
06/06/2017  
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 400-461

**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on PEARS[\*\*].**  
[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
	diflubenzuron	
	N-[[[4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide* .....	.22%
<b>OTHER INGREDIENTS:</b>	.....	.78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN® 2L** BEFORE APPLYING. USE OF **DIMILIN 2L** ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN 2L (EPA Reg. No. 400-461)**.

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEARS[**]	<p><b>PEARS RESTRICTIONS:</b> Do not apply more than 4 applications per year. Do not apply more than 64 fl oz of <b>DIMILIN 2L</b> (16 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 14 days of application.</p> <p>Do not use oil in tank mix in late season treatments (3rd and 4th applications).</p> <p><b>[**Not registered for use in New York]</b></p>		
	Pear psylla (pre-bloom)	40 - 48	<p>Apply in 80 to 400 gallons of water per acre during the delayed dormant to the popcorn stage period.</p> <p>Complete uniform coverage of the tree is essential to achieve insect control. A horticultural mineral oil should be used at a rate of 4 to 6 gallons per acre during the delayed dormant period. After this period and through the popcorn stage, apply oil at a concentration of 0.25%, but use no more than 1 gallon per acre. A surfactant may be used to improve coverage. Follow manufacturer's label specifications. <b>DIMILIN 2L</b> should be applied during egg deposition so that it will come in contact with pear psylla eggs and/or 1st and 2nd instar nymphs.</p>
	Pear psylla (post-bloom)	12 - 16	Applications at normal codling moth rates and timings will provide suppression of pear psylla.
	Pear rust mite (pre-bloom)	40 - 48	Apply in 80 to 400 gallons of water per acre from delayed dormant to the popcorn stage. See 'Pear psylla (pre-bloom)' for the use of oil.
	Codling moth	12 - 16	<p>Apply in a minimum of 80 gallons of water per acre. Use the lower rate where there is light codling moth pressure and/or on small trees. Complete coverage of the fruit and foliage in all areas of the trees is essential for insect control. Timing of application is extremely important because <b>DIMILIN 2L</b> controls codling moth by prohibiting the hatching of eggs. It must be applied prior to egg laying so that eggs are laid on treated plant parts.</p> <p>Apply first application as soon as possible after first moths are caught (biofix) or observed, or about 50 to 75 degree-days after biofix. This timing can be determined by your local pest control consultant and/or fruit specialist with the aid of pheromone traps. Normally this timing occurs at late petal fall or about 10 to 14 days earlier than the timing used for organophosphate insecticides.</p> <p>Apply second application about 14 to 18 days after the first.</p> <p>If necessary, apply third and fourth application, timed prior to egg laying of the 2nd generation by using the same method as for the 1st generation. If traps are not used, make the 3rd application 21 to 30 days after the second, followed by the 4th application 21 to 30 days later. If a degree day model is used the 3rd spray should be timed at 1000 degree-days after biofix.</p> <p>Combination with organophosphates for codling moth control: <b>DIMILIN 2L</b> can be used in combination with an organophosphate insecticide, to save a trip through the orchard and to make timing of the <b>DIMILIN 2L</b> sprays easier. The combination is more effective than <b>DIMILIN 2L</b> alone when controlling moderate to heavy codling moth infestations and/or treating large trees. The combination will provide residual control of eggs laid after application. Apply <b>DIMILIN 2L</b> and the organophosphates at their labeled rates. Apply at the beginning of egg hatch of 1st generation codling moth. This is the normal timing for the first organophosphate cover spray (250 degree-days following biofix for 1st generation and 1250 degree-days for the 2nd generation). This program can be repeated for the 2nd or 3rd generation of codling moth or use <b>DIMILIN 2L</b> alone prior to egg laying. Do not use oil in tank mix with <b>DIMILIN 2L</b> in late season treatments. With light codling moth populations, as indicated by monitoring, this combination may offer control of an entire generation with 1 application. When populations are heavy, this combination will improve control, but it may not control an entire generation with one spray. A second spray of <b>DIMILIN 2L</b> alone or in combination may be applied 14 to 18 days later.</p>
Leafminer	8 - 16	<p>Apply in a minimum of 80 gallons of water just prior or during egg laying to control eggs and larvae. Timing for control of the 1st or 2nd generation can be determined by your local pest control consultant or fruit specialist. Should later generations of leafminers occur, apply <b>DIMILIN 2L</b> in the same manner.</p> <p>It is desirable to have <b>DIMILIN 2L</b> in place at the time of egg laying. It will continue to give control through the early sap feeding stage. Complete coverage of the foliage is essential to achieve control of the larvae through the early sap feeding stage.</p>	
Oil may cause injury to certain pear varieties. Check compatibility of oil mixtures with your local tree fruit specialist.			

Produced For:  
**MacDermid Agricultural Solutions, Inc.**  
c/o ARYSTA LIFESCIENCE NORTH AMERICA, LLC  
15401 Weston Parkway, Suite 150  
Cary, NC 27513

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**SUPPLEMENTAL LABELING**

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<b>A C C E P T E D</b>
06/06/2017
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 400-461

**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on LEAFY BRASSICA SUBGROUP 5B[\*\*].**

[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>	
diflubenzuron	
N-[[[(4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide* .....	.22%
<b>OTHER INGREDIENTS:</b> .....	.78%
<b>TOTAL:</b> .....	100%

\*Contains 2 lb diflubenzuron per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION / PRECAUCIÓN**

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

THIS LABELING MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF APPLICATION. READ THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN® 2L** BEFORE APPLYING. USE OF **DIMILIN 2L** ACCORDING TO THIS LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR **DIMILIN 2L (EPA Reg. No. 400-461)**.

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
<p>LEAFY BRASSICA SUBGROUP 5B<sup>[**]</sup> includes:            Broccoli raab;            Cabbage;            Chinese (bok choy);            Collards;            Kale;            Mizuna;            Mustard greens;            Mustard spinach;            Rape greens;            Turnip greens</p>	<p><b>LEAFY BRASSICA SUBGROUP 5B RESTRICTIONS:</b> Do not make more than 4 applications per season. Do not apply more than 16 fl oz of <b>DIMILIN 2L</b> (4 oz diflubenzuron ai) per acre per calendar year. Do not use on turnip cultivars or varieties which produce a harvestable root.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 7 days of application.</p> <p><b>[**Not registered for use in New York]</b></p>		
	Grasshopper	2 - 4	<p>Apply to grasshoppers in the 2nd to 3rd nymphal stage of development.</p> <p>Reapply in 7 day intervals if nymphal hatchout/crop reinfestation continues.</p> <p><b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. Use the higher listed rate in the range if the area has a history of heavy infestations, dense foliage is present, or greater residual control is desired. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.</p>
	<p><b>Ground Application:</b> Use a minimum of 30 gallons of water per acre to give uniform coverage. Additional applications allow for more complete coverage of newly expanding foliage.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae and nymphs must ingest treated plant material and then molt before populations are reduced. Thus initial signs of control may not be seen until 5 to 7 days after treatment.</p>		

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# SUPPLEMENTAL LABELING

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<b>A C C E P T E D</b>
06/06/2017
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**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on TURFGRASS (For use in sod farms only)[\*\*].**

[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
diflubenzuron		
N-[[[(4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide*	.....	22%
<b>OTHER INGREDIENTS:</b>	.....	78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

### DIRECTIONS FOR USE

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
TURFGRASS[**] (For use in sod farms only)	<b>Turfgrass (For use in sod farms only) Restrictions:</b> Do not exceed a total of 4 applications per year. Do not apply more than 8 fl oz of <b>DIMILIN 2L</b> (2 oz diflubenzuron ai) per acre per calendar year. <b>[**Not registered for use in New York]</b>		
	Lepidopteran foliage feeding caterpillars such as: Sod webworm Armyworms, including: Fall, True, Southern, Beet, Yellow-striped, Striped Grass Looper, Granulate Cutworm	2	Apply <b>DIMILIN 2L</b> at first sign of hatchouts and prior to larvae reaching 4th instars (>1/2 inch). Apply in 20 to 50 gallons of water per acre depending on density of turf and caterpillar pressure. <b>DIMILIN 2L</b> must be ingested and larvae must molt before populations are reduced. Repeat applications at 14-day intervals or as needed to protect new foliage growth.

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**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on PEANUTS[\*\*].**  
[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
	diflubenzuron	
	N-[[[(4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide* .....	.22%
<b>OTHER INGREDIENTS:</b>	.....	.78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

### DIRECTIONS FOR USE

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
PEANUTS[**]	<p><b>PEANUTS RESTRICTIONS:</b> Do not make more than 3 applications per season. Do not apply more than 24 fl oz of <b>DIMILIN 2L</b> (6 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-harvest Interval:</b> Do not harvest within 28 days of application.</p> <p><b>[**Not registered for use in New York]</b></p>		
	Velvet bean caterpillar Mexican bean beetle Green cloverworm	2 – 4	Make applications when larvae are small (< 0.5 inches) to give greater control and minimum insect damage to leaves. Repeat application if damaging numbers reappear. The minimum reapplication interval is 14 days. Use the higher listed rate in the range if the crop has a history of heavy infestations, dense foliage is present, or greater residual control is desired.
	Redneck Peanut Worm[*] [*Not registered for use in California]	4	
	Armyworms, such as: Beet armyworm Fall armyworm Southern armyworm Yellow-striped armyworm Lesser cornstalk borer Soybean looper (suppression)	4 – 8	
	Grasshopper	2	For best results, apply when the majority of infesting grasshoppers have reached the 2nd to 3 <sup>rd</sup> nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding. Use a tank mix with a knockdown insecticide under these conditions.
	<p><b>Aerial Application:</b> Apply in sufficient water (3 to 5 gallons per acre) to achieve uniform coverage of foliage.</p> <p><b>Ground Application:</b> Apply in 9 to 35 gallons of water per acre to give uniform coverage.</p> <p><b>Adjuvant Usage:</b> See Cotton section.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae/nymphs must ingest treated plant material and then molt before populations are reduced. Thus initial signs of control may not be seen until 5 to 7 days after treatment.</p>		

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**GROUP 15 INSECTICIDE**



### Supplemental Label to Add DIRECTIONS FOR USE on LIVESTOCK/POULTRY PREMISES[\*\*].

[\*\*Not registered for use in New York]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
diflubenzuron		
N-[[[4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide*	.....	22%
<b>OTHER INGREDIENTS:</b>	.....	78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

### DIRECTIONS FOR USE

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
<p>LIVESTOCK / POULTRY PREMISES<sup>[**]</sup> includes: Litter Stale / waste feed Manure Manure / straw mixtures Feed muck / spoilage Spoiled organic refuse Bedding material Floors Walls / wall footings Posts Cage frames Ceilings</p>	<p><b>LIVESTOCK/POULTRY PREMISES RESTRICTIONS:</b> Do not apply directly to livestock or poultry. Do not contaminate feed or water through application cover or remove exposed feed and water from the area to be treated.</p> <p>Band and broadcast applications (for indoor use only) Apply only once per production cycle at a rate not to exceed 520 fl oz of <b>DIMILIN 2L</b> per calendar year.</p> <p>Spot treatment applications - For outdoor use, do not apply more than 7.5 fl oz of <b>DIMILIN 2L</b> per acre per application and do not exceed 17 applications per calendar year. For indoor use, do not apply more than 520 fl oz of <b>DIMILIN 2L</b> per acre per calendar year.</p> <p>Manure and process wastewater shall not be applied closer than 100 feet to any down gradient surface waters, open tile line intake structures, sinkholes, agricultural or domestic well heads, or other conduits to surface waters, unless a 35 foot wide vegetated buffer or physical barrier is substituted for the 100 foot setback or alternative conservation practices or field-specific conditions will provide pollutant reductions equivalent or better than the reductions achieved by the 100-foot setback.</p> <p><b>[**Not registered for use in New York]</b></p>		
	<p>Carrion Beetle<sup>[*]</sup> Darkling Beetle<sup>[*]</sup> Hide Beetle<sup>[*]</sup></p> <p><b>[*Not registered for use in California]</b></p>	<p>12 fl oz/1000 ft<sup>2</sup> in 2 to 20 gals water per 1000 ft<sup>2</sup></p>	<p><b>Broadcast Application:</b> Apply as a whole house broadcast spray to the litter following decaking, as well as to floors, walls, posts, cage frames, and cracks and crevices around insulation. When treating the litter, pay particular attention to areas under feed and water lines. Apply in sufficient volume to uniformly and thoroughly wet the litter and other surfaces spray volume will vary depending on the depth of litter being treated.</p> <p><b>Band Application:</b> When the whole house is not being treated, application can be made to areas where pests are concentrated, such as under feed and water lines, as well as along perimeter walls and side / end walks. Apply in sufficient volume to thoroughly wet litter following decaking in a 2 to 4 foot wide band under and next to these areas. Spray volume will vary depending on depth of litter. Lower sections of walls, posts and cage frames should also be treated at least 1 foot up from the floor.</p>
	<p>House fly Stable fly Face Fly Horn Fly</p>	<p>12 fl oz/1000 ft<sup>2</sup> in 2 to 20 gals water per 1000 ft<sup>2</sup></p>	<p><b>Broadcast Application:</b> Apply as a whole house broadcast spray or spot treatment to the litter between production cycles following clean out or decaking, as well as to floors, walls, posts, cage frames and ceilings. When treating the litter, pay particular attention to moist areas under feed and water lines. Apply in sufficient volume to uniformly and thoroughly wet the litter and other surfaces spray volume will vary depending on the depth of litter being treated.</p>
		<p>7.5 fl oz in 15 gals water</p>	<p><b>Spot Treatments:</b> Apply as a directed spray at a volume of 1 quart of spray solution to 10 sq ft of surface area. 15 gallons of spray solution will treat 600 sq ft.</p> <p>Begin applications when flies first appear. Additional applications may be made at 3 week intervals as needed, if adult fly numbers begin to increase, typically at 2 to 3 week intervals.</p> <p>For spot treatment in poultry houses, make applications only between production cycles, and not while birds are in the houses.</p>
	<p>Livestock / poultry operations includes farms, farm buildings, barns, feedlots, dairies, equine facilities, poultry houses, and other production facilities. Application sites within these operations also include fence lines of holding pens, feed troughs, feed bunks, hay bale feeders, water troughs; and marginal areas of waste retention ponds.</p> <p>For insect control around hay feeding sites, treat the entire area where manure and waste hay are mixed at the soil surface by livestock activity.</p> <p><b>DIMILIN 2L</b> will not control adult or pupal stages but does provide extended control of eggs and developing larvae. Exposure to adults, however, through contact or ingestion, does impact their reproductive potential, resulting in reduced numbers and viability of eggs. If a large adult population already exists at the time treatment is to be made, application with a knockdown insecticide either alone or in a tank mix with <b>DIMILIN 2L</b> may be desirable to achieve rapid reduction of that population.</p>		

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**ACCEPTED**  
06/06/2017  
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**GROUP 15 INSECTICIDE**



**Supplemental Label to Add DIRECTIONS FOR USE on SOYBEANS[\*].**  
[\*Not registered for use in California]

**This supplemental label expires February 4, 2019 and must not be used or distributed after this date.**

<b>INGREDIENTS:</b>	_____	<b>% BY WT.</b>
<b>ACTIVE INGREDIENT:</b>		
	diflubenzuron	
	N-[[[(4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide* .....	.22%
<b>OTHER INGREDIENTS:</b>	.....	.78%
<b>TOTAL:</b>	.....	100%

\*Contains 2 lb diflubenzuron per gallon.

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### DIRECTIONS FOR USE

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Crops	Pests	Application Rate (fl oz/acre)	Application Timing
SOYBEANS[*]	<p><b>SOYBEANS RESTRICTIONS:</b> Do not make more than 2 applications per season. Do not apply more than 8 fl oz of <b>DIMILIN 2L</b> (2 oz diflubenzuron ai) per acre per calendar year.</p> <p><b>Pre-Harvest Interval:</b> Do not harvest within 21 days of application.</p> <p><b>[*Not registered for use in California]</b></p>		
	Velvet bean caterpillar Mexican bean beetle Green cloverworm	2 - 4	<p>Make applications when larvae are small (&lt; 0.5 inches) to give greater control and minimum insect damage to leaves. Repeat application if damaging numbers reappear.</p> <p>The minimum reapplication interval is 30 days. <b>DIMILIN 2L</b> may be applied at the lower rate (2 fl oz) to prevent velvet bean caterpillar build-up when the vegetative growth of soybeans is completed and as pod formation begins. Consult local Extension Service regarding infestation levels requiring treatment.</p>
	Beet armyworm Fall armyworm Soybean looper (suppression)	4	Application must be made when worms are small before populations build.
	Grasshopper	2	Apply when the majority of infesting grasshoppers have reached the 2nd to 3rd nymphal stage of development. <b>DIMILIN 2L</b> is not effective in controlling grasshoppers once they reach the adult stage. If a large influx from neighboring fields should occur, the time to reduce that population may not be short enough to minimize extensive foliage feeding; use a tank mix with a knockdown insecticide under these conditions.
	<p><b>Aerial application:</b> apply in sufficient water (3 to 5 gallons per acre) to achieve uniform coverage of foliage.</p> <p><b>Ground application:</b> apply in 9 to 35 gallons of water per acre to give uniform coverage.</p> <p><b>Adjuvant usage:</b> See Cotton Section.</p> <p>Since <b>DIMILIN 2L</b> is an insect growth regulator, larvae/nymphs must feed on it and then molt before populations are reduced. Thus initial signs of control may not be seen until several days after treatment.</p> <p><b>Soybean yield enhancement:</b> In the absence of significant insect pressure and under certain growing conditions, an increase in soybean seed yield has been demonstrated with <b>DIMILIN 2L</b> under field conditions on both determinate and indeterminate cultivars. Application of 2 - 4 fl oz per acre to high yield potential soybean plants at the R3 to R3.5 growth stage period has been more consistent in increasing yields than applications at other reproductive stages of the soybean plant. This reproductive period represents beginning pod growth (pod 3/16 inch long at one of the uppermost nodes on the main stem with a fully developed leaf) to just prior to full pod elongation (pod 3/4 inch long at one of the 4 uppermost nodes on the main stem with a fully developed leaf ).</p>		

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