	U.S. ENVIRONAL PROTECTI	ON EPA Reg.	Number	Date of Issuance:
UNITED STATES	AGENCY	LIANG.	Number.	Date of issuance.
	Office of Pesticide Programs Registration Division (7505P)			
	Ariel Rios Building	83222	-11	JAN 2 4 2008
WIAL PROTECTIC	1200 Pennsylvania Ave., NW			
··	Washington, D.C. 20460	·		
	NOTICE OF PESTICIDE:	Term of Is	suance: Ć	onditional
	<u>x</u> Registration	Name of P	esticide Pro	duct:
	Reregistration	Lambd	o-Cv A	Gold
	(under FIFRA, as amended)		а-сул	
Name and Address	of Registrant (include ZIP Code):	l		a second and a second
	<b>5</b>			
J. Oliver Produc	ts, LLC	•		
3817 Robertson	Gin Rd.			
Hernando, MS	38632			
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	g differing in substance from that accepted in connection with he label in commerce. In any correspondence on this product			
	on furnished by the registrant, the above named pesticide is h ation is in no way to be construed as an endorsement or recon			
	ninistrator, on his motion, may at any time suspend or cancel			
of any name in connectio	n with the registration of a product under this Act is not to be			
its use if it has been easie		construed as giving the reg	istrant a rig	to exclusive use of the name of
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Submit three copies of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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A stamped copy of the label is enclosed for your records.

#### RESTRICTED USE PESTICIDE Due to Toxicity to Fish and Aquatic Organisms

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

# LAMBDA-CY AG GOLD

For the Control of a Variety of Insect Pests on Selected Crops

Contains the same active ingredient as Karate® Insecticide.

Active Ingredient:	
Lambda-cyhalothrin	13.1%
Inert Ingredients:	
Total	100.0%

Contains petroleum distillates. Contains 1 lb. of active ingredient per gallon.

### KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

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

EPA Reg. No. 83222-X

#### EPA Est. No. XXXXX-XX-XXX

Net Contents: Gallons

Manufactured By: J. Oliver Products, LLC 3187 Robertson Gin Rd. Hernando, MS 38632

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#### ACCEPTED with COMMENTS In EPA Letter Dated:

JAN 2 4 2008

Under the Federal Insecticide, Fungleide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

	FIRST AID
If on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <li>Bines align immediately with glopty of water for 15 20 minutes.</li> </ul>
· · · · ·	<ul> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul> <li>Hold eye open and rinse slowly and gently with water 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continuing rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Do not give any liquid to the person.</li> <li>Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
	iner or label with you when calling a poison control center or doctor, or going for emergencies call Prosar 24 hours a day at 1-877-250-9291.
	ntains petroleum distillate – vomiting may cause aspiration pneumonia.

#### PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals DANGER-PELIGRO

Corrosive. Causes skin burns. May be fatal if swallowed or inhaled. Causes substantial but temporary eye injury. Do not get in eyes, on skin or clothing. Do not breathe vapor or spray mist. Harmful if absorbed through skin. Wear protective clothing, gloves, eyewear (goggles, face shield, or safety glasses) and respirator as indicated under Personal Protective Equipment. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

#### **Personal Protective Equipment (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear: .

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber or viton ≥14 mils

- Chemical-resistant footwear plus socks
- Protective eyewear
- · Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- For exposures in enclosed areas, use a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.
- For exposures outdoors, use a NIOSH approved respirator with any R, P or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

#### **User Safety Recommendations**

#### Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing 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 extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### **Physical and Chemical Hazards**

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Combustible liquid. Do not use or store near heat or open flame.

#### 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.

This labeling must be in the possession of the user at the time of application.

#### 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 24 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 over long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber or viton ≥14 mils
- Chemical-resistant footwear plus socks

• Protective eyewear

• Chemical-resistant headgear for overhead exposure

#### FAILURE TO FOLLOW THE DIRECTIOINS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR INSECT CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

#### GENERAL INFORMATION

Initial and residual control is contingent upon thorough crop coverage. Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gallons per acre by air or 10 gallons per acre by ground unless otherwise specified in this label. When foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), use of higher application volumes and/or higher use rates may improve initial and residual control.

For cutworm control, Lambda-Cy AG Gold may be applied before, during or after planting. For soil incorporated applications, use higher rates for improved control.

#### Resistance

Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state agricultural authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

#### **Spray Drift Precautions**

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

Do not apply by ground within 25 feet, or by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, pot holes, or natural ponds; estuaries and commercial fish farm ponds. increase the buffer zone to 450 feet when ultra low volume (ULV) application is made.
All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.

• For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of wing span or rotor diameter.

• Use the largest droplet size consistent with good pest control. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible, and by avoiding excessive spray boom pressure.

• Spray should be released at the lowest height consistent with pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

• Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid

applications when wind gusts approach 15 mph.

• Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the aquatic area.

• Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip.

• Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.

• Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

In the State of New York, a 25 foot vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial or ground application. For aerial applications, the 25 foot vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 foot buffer strip (or 450 foot buffer strip for ULV application) required for spray drift.

#### TANK MIX APPLICATION

When tank mixing with any other agricultural product, always add Lambda-Cy AG Gold last. Fill the tank with one half to two thirds volume of the mixing diluent. Make sure all other products are fully dispersed in the mixing diluent before adding the recommended rate of Lambda-Cy AG Gold to the tank. Add the remainder of the mixing diluent volume. It is recommended that mixing and spray equipment have continuous agitation for best results. Follow the precautions and limitations of the most restricted product in the tank mixture.

While Lambda-Cy AG Gold has good flexibility for tank mixing with other agricultural products, a jar test for physical compatibility is recommended for untried mixtures using proper ratios and mixing sequences of all ingredients to be included in the mixture.

Lambda-Cy AG Gold is an aqueous based formulation. It is recommended that no type of nonemulsifiable oils be used in combination with Lambda-Cy AG Gold. If adjuvants are used, use only:

- Nonionic Surfactant (NIS) containing at least 75% surface agent, or
- Non-phytotoxic Crop Oil Concentrate (COC) including once refined Vegetable Oil concentrate (VOC), or
- Methylated Sunflower Oils (MSO) containing a minimum of 17% emulsifier.

Adjuvants other than NIS or COC may be used providing the product meets the following criteria:

- Contains only EPA exempt ingredients.
   Is non-phytotoxic to the target crop.
   Is compatible in mixture (may be established through a jar test).
   Is supported locally for use with Lambda-Cy AG Gold on the target crop through proven field trials and through university and extension recommendations.

In addition, the following may be used as diluents:

Crop Oil Concentrate Methylated Sunflower Oils Urea-Ammonium Nitrate

It is recommended that the following not be used in combination with Lambda-Cy AG Gold as

diluents or adjuvants:

Non-emulsifiable Oils Diesel Fuel Straight Mineral Oil

#### CHEMIGATION

#### **Sprinkler Irrigation Application**

Apply Lambda-Cy AG Gold at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types (see TANK MIX APPLICATION) rates and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with Lambda-Cy AG Gold applied by chemigation.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of Lambda-Cy AG Gold into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1-0.2 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the main irrigation line ahead of a right angle turn in the line to insure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system.

In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of Lambda-Cy AG Gold for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

It is not recommended that Lambda-Cy AG Gold be applied through an irrigation system connected to a public water system. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves and average of at least 25 individuals daily at least 60 days out of the year

#### **Use Precautions - Sprinkler Irrigation Application**

A. 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 system(s). Do not apply this product through any other type of irrigation system.

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

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

D. 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.

E. 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.

F. 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.

G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

H. The pesticide injection pipeline must also contain a functional, normally closed, solenoidoperated 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.

I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

J. 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.

K. 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.

L. Any alternatives to the above required safety devices must conform to the list of EPAapproved alternative devices.

M. Do not apply when wind speed favors drift beyond the area intended for treatment or nonuniform distribution of treated water.

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N. Do not apply through chemigation systems connected to public water systems.

# SPECIFIC USE DIRECTIONS - AGRICULTURAL USES

	Rate			
Сгор	Target Pests	lb. a.i/A	fl. oz./A	Remarks
ALAFAFA	Alfalfa Caterpillar	0.015-0.025	1.92 - 3.20	<ul> <li>Apply only to fields planted to pure</li> </ul>
AND	Army cutworm			stands of alfalfa.
ALFALFA	Cutworm spp.			• Apply as required by scouting. Timing
GROWN	Green Cloverworm			and frequency of applications should be
FOR SEED	Leafhopper species			based upon insect populations reaching
10110	Looper spp.			locally determined economic
	Threecornered Alfalfa			thresholds.
	Hopper			• Apply with ground or air equipment
	Velvetbean Caterpillar			using sufficient water to obtain full
	Webworm spp.			coverage of foliage. Apply in a
	Alfalfa Seed Chalcid	0.02-0.03	2.56 - 3.84	minimum of 2 gallons per acre by air or
	(Adult)			10 gallons per acre by ground. When
	Alfalfa Weevil	1		foliage is dense and/or pest populations
	Armyworm			are high 5-10 gallons per acre by air or
	Bean Leaf Beetle (Adult)			20 gallons per acre by ground and
	Blister Beetle spp.			higher use rates are recommended. Use
	Blue Alfalfa Aphid Clover Leaf Weevil spp.			higher rates for increased residual
	Clover Lear weevin spp. Clover Root Borer			control.
	(Adult)			• Avoid application when bees are
	Clover Root Curculio			actively foraging by applying during the
	spp. (Adult)			early morning or during the evening
	Clover Stem Borer			hours. Be aware of bee hazard resulting
	(Adult)			
	Corn Earworm		· · .	from a cool evening and/or morning
	Cowpea Aphid			dew. It may be advisable to remove bee
	Cowpea Curculio (Adult)			shelters during and for 2-3 days
	Cowpea Weevil (Adult)			following application. Avoid direct
	Cucumber Beetle Spp.	·		application to bee shelters.
	(Adult)			• Do not apply more than 0.03 lb. a.i.
	Egyptian Alfalfa Weevil		· ·	(0.24 pls.) per acre per cutting.
	Fall Armyworm <sup>1</sup>			• Do not apply more than 0.12 lb. a.i.
	Grape Colaspis (Adult)	Ì		(0.96 pt.) per acre per season.
	Grasshopper spp.			• Do not apply within 1 day of harvest
	Green June Beetle (Adult)			for forage or within 7 days of harvest
	Green Peach Aphid <sup>3</sup>			for hay.
	Japanese Beetle (Adult)			
	Meadow Spittlebug			<sup>1</sup> Use higher rates for large larvae.
]	Mexican Bean Beetle			<sup>2</sup> Suppression only.
	Pea Aphid Pea Weevil (Adult)			<sup>3</sup> See resistance statement under
	Plant Bug spp. Including			GENERAL INFORMATION.
	Lygus spp. <sup>3</sup>			
	Spotted Alfalfa Aphid			<sup>4</sup> Does not include Western Flower
	Stink Bug spp.		•	Thrips.
	Sweet Clover Weevil			
	(Adult)		· ·	· · · · · · · · · · · · · · · · · · ·
	Thrips spp. <sup>4</sup>	1		
	Western Yellow-striped			
	Armyworm			· · · ·
	Whitefringed Beetle spp.			· ·
	(Adult)	1	· ·	
	Yellow-striped			
	Armyworm			· 1
	Beet Armyworm <sup>1, 3</sup>	0.03	3.84	· · · ·
	Blotch Leafminer <sup>3</sup>			
	Spider Mites <sup>1</sup>			

		R	ate	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CANOLA	Cutworm spp. Armyworm spp. Diamondback Moth Flea Beetle Cabbage Seedpod Weevil Lygus Bug Grasshoppers	0.015-0.03	1.92-3.84	<ul> <li>Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply a minimum of 2 gals. of</li> </ul>
•	Cabbage Aphid	0.03	3.84	<ul> <li>water/A.</li> <li>Do not apply within 7 days of harvest</li> <li>Do not apply more than 0.09 lb. a.i.</li> <li>(0.72 pt)/A per year.</li> </ul>
CEREAL GRAINS: Corn (At- Plant): Field Corn Popcorn Seed Corn Sweet Corn Sweet Corn	Corn Rootworm Larvae (Western, Northern, Southern, Mexican) Cutworm spp. Seed corn Maggot Seed corn Beetle Lesser Cornstalk Borer White Grub spp. Wireworm spp. Red Imported Fire Ant <sup>1</sup>	0.005 lb. ai per 1,000 ft. of row <sup>2</sup>	0.66 fl. oz. per 1,000 ft. of row <sup>2</sup>	<ul> <li>Banded Applications: Apply at planting as a 5-7 inch T-band sprayed across the open seed furrow between the furrow openers and the press wheels or as a band application behind the press wheel.</li> <li>In-Furrow Applications: Apply into the seed furrow through spray nozzles or microtubes behind the planter furrow openers and in front of the press wheel. Apply a minimum of 3 gals. of finished spray/A.</li> <li>Do not harvest or graze livestock or cut treated crops for feed within 21 days of at-plant application.</li> <li>Do not apply more than 0.09 lb. a.i. (0.72 pt)/A per crop at-plant</li> <li>For field corn, popcorn, and seed corn, do not apply more than 0.12 lb. a.i./A per crop from at-plant and foliar applications.</li> <li>For sweet corn do not apply more than 0.48 lb. a.i/A per crop from at-plant and foliar applications.</li> <li>Suppression only.</li> </ul>

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<sup>2</sup> Lbs. a.i. and fl. oz./A of Lambda-Cyhalothrin applied at 0.66 fl. oz./1000 ft. of row for various row spacings:							
Row Spacing	40"	38"	36"	34"	32"	30"	
Linear Ft./A	13,068	13,756	14,520	15,374	16,335	17,424	
Lbs. a.i./A	0.067	0.07	0.075	0.079	0.084	0.09	
FI. oz./A	8.6	9.1	96	10.1	10.8	11.5	

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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Corn (Foliar): Field Corn	Cutworm spp. Western Bean Cutworm <sup>1</sup> Corn Earworm <sup>1</sup> Green Cloverworm Meadow Spittlebug	0.015-0.025	1.92-3.20	• Apply as required by scouting or locally prescribed corn growth stages, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations
Popcorn Seed Corn	Tobacco Budworm1 4European Corn Borer1Southwestern CornBorerStalk Borer1Hop Vine Borer1Armyworm2Fall Armyworm2Yellow-stripedArmyworm2Webworm spp.Flea Beetle spp.Western CornRootworm Beetle(Adult)Northern CornRootworm Beetle(Adult)Southern CornRootworm Beetle(Adult)Southern CornRootworm Beetle(Adult)Bean Leaf Beetle(Adult)Bean Leaf BeetleCereal Leaf BeetleJapanese Beetle (Adult)Sap Beetle (Adult)Sink Bug spp.Grasshopper spp.Corn Leaf Aphid3Bird Cherry-Oat Aphid3Bird Cherry-Oat Aphid3Base Armuran 24	0.02-0.03	2.56-3.84	<ul> <li>should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods.</li> <li>Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small corn. Direct spray to the base of corn plants. Repeat applications at 3-5 day intervals if needed. Lambda-Cy AG Gold may only suppress heavy infestations and/or subsequent migrations.</li> <li>For control of adult corn rootworm beetles (<i>Diabrotica</i> species) as part of an aerial-applied corn rootworm control program, use a minimum of 3.84 fl. oz/A (0.03 lb. a.i./A).</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not allow livestock to graze in treated areas or harvest treat corn forage as feed for meat or dairy animals within 1 day after last treatment. Do not feed treated corn fodder or silage to meat or dairy animals within 21 days after last treatment.</li> <li>Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per crop from at-plant</li> </ul>
	Beet Armyworm <sup>2, 4</sup> Chinch Bug Green Bug <sup>3,4</sup> Southern Corn Leaf Beetle Mexican Rice Borer <sup>1</sup> Rice Stalk Borer <sup>1</sup> Sugarcane Borer <sup>1</sup>	0.03	3.84	<ul> <li>(0.96 pt.)/A per crop from at-prant and foliar applications.</li> <li>Do not apply more than 0.06 lb. a.i. (0.48 pt.) after silk initiation.</li> <li>Do not apply more than 0.03 lb. a.i. (0.24 pt.) after corn has reached the milk stage (yellow kernels with milky fluid).</li> <li>'For control before the larva bores into the plant stalk or ear.</li> <li><sup>2</sup> Use higher rates for large larvae.</li> <li><sup>3</sup>Suppression only.</li> <li><sup>4</sup>See resistance statement under GENERAL INFORMATION.</li> </ul>

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· · ·		R	ate	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Corn (Foliar): Sweet Corn	Corn Earworm Fall Armyworm <sup>1</sup> Southern Armyworm <sup>1</sup> Beet Armyworm <sup>1</sup> Yellow-Striped Armyworm <sup>1</sup> Cutworm spp. Western Bean Cutworm Webworm spp. European Corn Borer Southwestern Corn Borer Common Cornstalk Borer Western Corn Rootworm Beetle (Adult) Northern Corn Rootworm Beetle (Adult) Southern Corn Rootworm Beetle (Adult) Mexican Corn Rootworm Beetle (Adult) Japanese Beetle (Adult) Sap Beetle (Adult) Sap Beetle (Adult) Flea Beetle spp. Tarnished Plant Bug Stink Bug spp. Chinch Bug Aster Leafhopper Grasshopper spp. Aphid spp. <sup>2,3</sup> Spider Mite spp. <sup>2</sup> Corn Silkfly (Adult) <sup>2</sup>	0.02-0.03	3.84	<ul> <li>Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods and should be targeted for control before insects enter the stalk or ear.</li> <li>Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>For control of adult corn rootworm beetles (<i>Diabrotica</i> species) as part of an aerial applied corn rootworm control program, use a minimum of 3.2 fl. oz./A (0.025 lb. a.i./A).</li> <li>Do not apply within 1 day of harvest.</li> <li>Do not apply within 1 day of harvest.</li> <li>Do not apply within 1 day after last treated areas or harvest treated corn forage as feed for meat or dairy animals within 1 day after last treatment.</li> <li>Do not apply more than 0.48 lb. a.i. (3.84 pts.)/A per season.</li> <li><sup>1</sup> Use higher rates for large larvae.</li> <li><sup>2</sup> Suppression only.</li> <li><sup>3</sup> See resistance statement under GENERAL INFORMATION.</li> </ul>

			Rate
Crop	Target Pests	lb. a.i./A	fl. oz./A
CEREAL GRAINS: Rice	True Armyworm Fall Armyworm Yellow-striped Armyworm Rice Water Weevil (Adult) Rice Stink Bug Chinch Bug Grasshopper spp. Leafhopper spp. Bird Cherry-Oat Aphid Greenbug Sharpshooter spp.	0.025-0.04	3.20-5.12
. '	Yellow Sugarcane Aphid European Corn Borer <sup>1</sup> Mexican Rice Borer <sup>1</sup> Rice Seed Midge <sup>1</sup> Rice Stalk Borer <sup>1</sup> Sugarcane Borer <sup>1</sup>	0.03-0.04	3.84-5.12

REMARKS:

• Apply as required by scouting. Timing and frequency of application should be based upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5-7 days, by scouting.

• Lambda-Cy AG Gold can be safely used when propanil products are being used for weed control.

• Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water (or a total carrier volume)/A but ensure sufficient volume is used to provide adequate coverage. In addition, adding an emulsifiable crop oil (e.g., 1 pt./A) when lower aerial application volumes are used is recommended to help improve coverage, reduce evaporation, and improve efficacy.

• For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time frame of 0-5 days after permanent flood establishment. Do not exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.

• For control of rice water weevil in water seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.

• California: In addition to above directions, for control of rice water weevil in water seeded rice, Lambda-Cy AG Gold may be applied at the 1- to 3-leaf growth stage with the majority at the 2- leaf growth stage.

Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: (a) spray the inside perimeter of the field, or (b) spray the entire field.

• Greenbug is known to have many biotypes. Lambda-Cy AG Gold may only provide suppression. If satisfactory control is not achieved with the first application of Lambda-Cy AG Gold, a resistant biotype may be present. Use alternate chemistry for control.

• For control of stem borers, scout fields when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.

• Do not release floodwater within 7 days of an application.

• Do not apply more than 0.12 lb. a.i. (0.96 pt.)/A per season.

• Do not apply more than 0.04 lb. a.i. (0.32 pt.)/A within 21 to 27 days of harvest.

- Do not apply within 21 days of harvest.
- Do not use treated rice fields for the aquaculture of edible fish and crustacea.
- Do not apply as an ultra-low volume (ULV) spray.

<sup>1</sup> For control before the larvae bores into the plant stalk.

	Rate			
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS: Sorghum	Cutworm spp. Sorghum Midge	0.015-0.02	1.92-2.56	• Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications
(Grain)	Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm <sup>1</sup> Yellow-striped Armyworm <sup>1</sup> Corn Earworm Webworm spp. European Corn Borer <sup>2</sup> Southwestern Corn Borer <sup>2</sup> Lesser Cornstalk Borer <sup>2</sup> Flea Beetle spp. Stink Bug spp.	0.02-0.03	2.56-3.84	<ul> <li>should be based upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed.</li> </ul>
	Grasshopper spp. Chinch Bug Mexican Rice Borer <sup>2</sup> Rice Stalk Borer <sup>2</sup> Sugarcane Borer <sup>2</sup>	0.03	3.84	<ul> <li>For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of sorghum plants. Repeat applications at 3- to 5-day intervals if needed.</li> <li>Lambda-Cy AG Gold may only suppress heavy infestations and/or subsequent migrations.</li> <li>Do not apply within 30 days of harvest.</li> <li>Do not apply more than 0.08 lb. a.i. (0.64 pt.)/A per season.</li> <li>Do not apply more than 0.06 lb. a.i. (0.48 pt.)/A per season after crop emergence.</li> <li>Do not apply more than 0.02 lb. a.i. (0.16 pt.)/A per season once crop is in soft dough stage.</li> </ul>
• • • •				<ul> <li><sup>1</sup> Use higher rates for large larvae only.</li> <li><sup>2</sup> For control before the larva bores into the plant stalk.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> </ul>
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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CEREAL GRAINS:	Cutworm spp. Army Cutworm	0.015-0.025	1.92-3.20	• Apply as required by scouting, usually at intervals of 5 or more days.
Wheat Wheat Hay Triticale	Armyworm Fall Armyworm Yellow-striped Armyworm Flea Beetle spp. Cereal Leaf Beetle Stink Bug spp. English Grain Aphid <sup>1</sup> Russian Wheat Aphid <sup>1</sup> Bird Cherry-Oat Aphid <sup>1</sup> Grasshopper spp. Orange Blossom Wheat Midge Hessian Fly <sup>4</sup>	0.02-0.03	2.56-3.84	<ul> <li>Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>For chinch bug control. repeat applications at 3- to 5-day intervals if needed. Lambda-Cy AG Gold may only suppress heavy infestations and/or migrations.</li> <li>Greenbug is known to have many</li> </ul>
	Grass Sawfly Chinch Bug Greenbug <sup>1</sup> , <sup>2</sup> Corn Leaf Aphid <sup>2</sup>	0.025-0.03	3.20-3.84 3.84	<ul> <li>biotypes. Lambda-Cy AG Gold may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.</li> <li>Do not apply within 30 days of</li> </ul>
	Mite Spp. <sup>2</sup>			<ul> <li>harvest.</li> <li>Do not allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after last treatment. Do not feed treated straw to meat or dairy animals within 30 days after last treatment.</li> </ul>
•				<ul> <li>Do not apply more than 0.06 lb. a.i. (0.48 pt.) /A per season.</li> <li><sup>1</sup> Best control is obtained before insects begin to roll leaves. Once wheat has started to boot, Lambda-Cy AG Gold may provide suppression only. Higher rates and increased coverage will be necessary.</li> <li><sup>2</sup>Suppression only.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> <li><sup>4</sup> Make applications when adults emerge.</li> </ul>

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		Rate		
Сгор	Target Pests	lb. a.i./A	fl. oz./A	Remarks
COLE CROPS: Broccoli Brussels Sprouts Cabbage	Alfalfa Looper Cabbage Looper Imported Cabbageworm Southern Cabbageworm Cutworm spp. Cabbage Webworm	0.015-0.025	1.92-3.20	• Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
Cavalo Broccolo Cauliflower Chinese Broccoli (gai lon) Chinese (napa) Chinese Mustard Cabbage (gai choy) Kohlrabi	Diamondback Moth <sup>3</sup> Armyworm Beet Armyworm <sup>1,3</sup> Fall Armyworm <sup>1</sup> Yellow-striped Armyworm Corn Earworm Flea Beetle spp. Japanese Beetle (Adult) Vegetable Weevil (Adult) Grasshopper spp. Leafhopper spp. Plant Bug spp. including Lygus spp <sup>3</sup> Stink Bug spp. Meadow Spittlebug Aphid spp. <sup>2,3</sup> Whitefly spp. <sup>2,3</sup> Thrips spp. <sup>2</sup> Spider Mite spp. <sup>2</sup>	0.02-0.03	2.56-3.84	<ul> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>Do not apply within 1 day of harvest.</li> <li>Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per season.</li> <li><sup>1</sup>For control of first and second instar only.</li> <li><sup>2</sup>Suppression only.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> </ul>

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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
COTTON	Cutworm spp. Tobacco Thrips Soybean Thrips	0.015-0.02	1.92-2.56	• Apply as required by scouting, usually at intervals of 5-7 days. Timing and frequency of applications should be based
	Lygus Bug spp. <sup>3</sup> Pink Bollworm Cabbage Looper Cotton Leafperforator Saltmarsh Caterpillar Cotton Leafworm Cotton Fleahopper	0.02-0.03	2.56-3.84	<ul> <li>upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of foliage.</li> <li>Applications may also be made with equipment adapted and calibrated for</li> </ul>
	Cotton Bollworm Tobacco Budworm <sup>3</sup> Boll Weevil Fall Armyworm Beet Armyworm <sup>1,3</sup> European Corn Borer Brown Stink Bug	0.025-0.04	3.20-5.12	<ul> <li>ULV sprays. Lambda-Cy AG Gold may be mixed with once-refined vegetable oil and applied in a minimum of at least 1 qt. of finished spray/A.</li> <li>Under light bollworm/budworm infestation levels, 0.02 lb. a.i./A may be applied in conjunction with intense field monitoring,</li> </ul>
	Green Stink Bug Southern Green Stink Bug Two-spotted Spider Mite <sup>2</sup> Cotton Aphid <sup>2,3</sup>			<ul> <li>For boll weevil control spray on a 3- to 5-day schedule.</li> <li>When applied according to label directions for control of cotton bollworm and tobacco budworm,</li> </ul>
	Bandedwing Whitefly <sup>2,3</sup> Sweetpotato Whitefly <sup>2,3</sup>			<ul> <li>Lambda-Cy AG Gold also provides ovicidal control of unhatched <i>Heliothis</i> spp, eggs.</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not graze livestock in treated areas.</li> </ul>
				<ul> <li>Do not apply more than 1.6 pts. (0.2 lb. a.i.)/A per season.</li> <li>Do not make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing season.</li> </ul>
				<sup>1</sup> For control of first and second instar only. <sup>2</sup> Suppression only. <sup>3</sup> See resistance statement under GENERAL INFORMATION.

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		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
Crop FRUITING VEGETABLES: Tomato and Tomatillo Peppers (bell and non-bell) Eggplant Ground Cherry Pepino	Cabbage Looper Cutworm spp. Hornworm spp. Tomato Fruitworm Tobacco Budworm <sup>3</sup> Tomato Pinworm Beet Armyworm <sup>1,3</sup> Southern Armyworm <sup>1</sup> Yellow-striped Armyworm <sup>1</sup> Fall Armyworm <sup>1</sup> European Corn Borer <sup>4</sup> Leafminer spp. <sup>2</sup> Colorado Potato Beetle <sup>3</sup> Flea Beetle spp. Grasshopper spp. Leafhopper spp. Leafhopper spp. Leafhopper spp. Leafhopper spp. Aphid spp <sup>2,3</sup> Whitefly spp <sup>2,3</sup> Meadow Spittlebug Stink Bug spp. Plant Bug spp. Stalk Borer <sup>4</sup> Blister Beetle spp. Japanese Beetle (Adult) Pepper Weevil (Adult) <sup>2</sup> Vegetable Weevil (Adult)			<ul> <li>Remarks</li> <li>Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>Do not apply within 5 days of harvest.</li> <li>Do not apply more than 0.36 lb. a.i. (2.88 pts.)/A per season.</li> <li><sup>1</sup>For control of first and second instar only.</li> <li><sup>2</sup>Suppression only.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> <li><sup>4</sup>For control before the larva bores into the plant stalk or fruit.</li> <li><sup>5</sup>Does not include Western Flower Thrips.</li> </ul>
	(Adult) Tomato Psyllid <sup>2,3</sup> Spider Mite spp. <sup>2</sup> Thrips <sup>5</sup> Cucumber Beetle spp. (Adult)			

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		R	ate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks	
LEGUME	Cutworm spp.	0.015-0.025	1.92-3.20	• Apply as required by scouting.	
VEGETABLES	Green Cloverworm			usually at intervals of 5 or more	
(BEANS AND PEAS):	Imported			days. Timing and frequency of	
Edible Podded	Cabbageworm				
(only)	Saltmarsh Caterpillar			applications should be based upon	
Canavalia gladiata-	Velvetleaf Caterpillar			insect populations reaching locally	
sword bean	Mexican Bean Beetle			determined economic thresholds.	
Canavalia ensiformis –	· ·	0.02-0.03	2.56-3.84	• Apply with ground or air	
jackbean	Corn Earworm			equipment using sufficient water to	
Glycine max - Soybean	Painted Lady Butterfly			obtain full coverage of foliage.	
(immature seed)	(larva)			When applying by air, apply in a	
Edible Podded,	European Corn Borer				
Succulent	Looper spp.			minimum of 2 gals. of water/A.	
Shelled or Dried	Western Bean Cutworm			• For edible podded and succulent	
Shelled of Difed	Tobacco Budworm <sup>4</sup>	1		shelled legume vegetables, do not	
-	Armyworm <sup>2</sup>			apply within 7 days of harvest.	
Phaseolus spp includes: field,	Fall Armyworm <sup>2</sup>			• For dried shelled legume	
	Yellow-striped			vegetables, do not apply within 21	
kidney, lima, navy,	Armyworm <sup>2</sup>			days of harvest.	
pinto, runner, snap,	Western Yellow-striped				
tepary, and wax beans	Armyworm <sup>2</sup>			• Do not apply more than 0.12 lb.	
Vigna spp includes:	Bean Leafskeletonizer			a.i. (0.96 pt.)/A per season.	
adzuki, asparagus,	Webworm spp.			• For succulent and dried shelled	
moth,	Leaftier spp.	}		peas and beans, do not graze	
mung, rice, urd and	Alfalfa Caterpillar			livestock in treated areas or harves	
yard long beans, black-	Stalk Borer <sup>1</sup>			vines for forage or hay.	
eyed pea, catjang,	Cucumber Beetle spp.			vines for forage of may.	
Chinese longbean,	(Adult)				
cowpea, Crowder pea,	Corn Rootworm Beetle			<sup>1</sup> For control before the larva bores	
and Southern pea	spp. (Adult)		· .	into the plant stalk or pods.	
Pisumspp	Flea Beetle spp. (Adult)			<sup>2</sup> Use higher rates for large larvae.	
includes: dwarf,	Curculio and Weevil	ł	} .	<sup>3</sup> For suppression only.	
edible-pod, English,	spp. <sup>1</sup> (foliage and pod	1		<sup>4</sup> See resistance statement under	
field, garden, green,	feeding adults and			GENERAL INFORMATION.	
snow and sugar snap				<sup>5</sup> Does not include Western Flower	
peas	larvae) Blister Beetle spp.	1			
Cajanus cajan - Pigeon	Bean Leaf Beetle			Thrips.	
pea					
Succulent	Japanese Beetle (Adult)				
Shelled or Dried	Leafhopper spp.				
Shelled	Flea Hopper spp.				
Vicia faba broadbean	Three-cornered Alfalfa			· . · ·	
(favabean)	Hopper			,	
Dried Shelled	Meadow Spittlebug				
(only)	Stink Bug spp.				
Lupinus spp includes:	Plant Bug spp. Including				
grain, sweet, white and	Lygus spp <sup>4</sup>				
sweet white lupines	Grasshopper spp.				
Cicer arietimum -	Thrips spp <sup>4,5</sup>				
Chickpea (garbanzo	Aphid spp <sup>4</sup>				
bean)					
	Beet Armyworm <sup>3,4</sup>	0.03	3.84		
Cyamopsis estracopoloha	Soybean Looper <sup>3,4</sup>				
etragonoloba -	Lesser Cornstalk			·	
guar	Borer <sup>3</sup>				
Lablab pupureus -	Leafminer spp <sup>3,4</sup>		1		
Lablab bean					
(hyacinth bean)	Whitefly spp <sup>3,4</sup>			}	
Lens esculata -	Spider Mite Spp <sup>3</sup>				
Lentils			1		
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	Rate			
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
LEGUME	Corn Earworm	0.015-0.025	1.92-3.20	• Apply as required by scouting,
VEGETABLES:	Velvetbean Caterpillar			usually at intervals of 5 or more
Soybean	Green Cloverworm			days. Timing and frequency of
	Cabbage Looper			applications should be based upon
	Painted Lady (Thistle)			insect populations reaching locally
	Caterpillar			determined economic thresholds.
	Saltmarsh Caterpillar			• Do not graze or harvest treated
	Woollybear Caterpillar			soybean forage, straw, or hay for
	Cutworm spp.			livestock feed.
	Bean Leaf Beetle			• Apply with ground or air
	Mexican Bean Beetle			equipment using sufficient water to
	Western Corn			obtain full coverage of foliage.
	Rootworm Beetle			When applying by air, apply in a
	(Adult)			minimum of 2 gals. of water/A.
	Northern Corn			• For control of adult corn
	Rootworm Beetle			rootworm beetles (Diabrotica
	(Adult)			species) as part of an aerial applied
	Southern Corn			corn rootworm control program,
	Rootworm Beetle			use a minimum of 2.56 fl. oz./A
•	(Adult)			(0.02 lb. a.i./A).
	Mexican Corn			• Do not apply within <u>30</u> days of
• :	Rootworm Beetle			harvest.
	(Adult)			• Do not apply more than 0.06 lb.
	Three-Cornered Alfalfa			a.i. (0.48 pt.)/A per season.
	Hopper			
. •	Potato Leafhopper			<sup>1</sup> Use higher rates for large larvae.
	Thrips spp. <sup>5</sup>			<sup>2</sup> Suppression only.
	Soybean Aphid <sup>4</sup>			<sup>3</sup> See resistance statement under
	Armyworm <sup>1</sup>	0.025-0.03	3.20-3.84	GENERAL INFORMATION.
	Fall Armyworm <sup>1</sup>			<sup>4</sup> Use lower rates for early season
	Yellow-striped			applications and/or lighter
	Armyworm			populations.
	Tobacco Budworm <sup>3</sup>			<sup>5</sup> Does not include Western Flower
	Webworm spp.			Thrips.
	European Corn Borer			
	Silverspotted Skipper			
	Japanese Beetle (Adult)			· ·
	Blister Beetle spp.			
	Stink Bug spp.			
	Plant Bug spp.			
	Grasshopper spp.			
	Beet Armyworm <sup>2,3</sup>	0.03	3.84	
	Soybean Looper <sup>2,3</sup>			
	Lesser Cornstalk Borer <sup>2</sup>	5		
	Spider Mite spp. <sup>2</sup>			
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	Rate			
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
LETTUCE	Alfalfa Looper	0.015-0.025	1.92-3.20	Apply as required by scouting,
(HEAD	Cabbage Looper			usually at intervals of 5 or more
•	Imported Cabbageworm			days. Timing and frequency of
AND LEAF)	Cutworm spp.			applications should be based upon
	Saltmarsh Caterpillar			insect p populations reaching locally
	Green Cloverworm			determined economic thresholds.
		0.02-0.03	2.56-3.84	• Apply with ground or air equipment
	Diamondback Moth <sup>3</sup>	0.02-0.03	2.50-5.04	using sufficient water to obtain full
	Armyworm			coverage of foliage. When applying
	Beet Armyworm <sup>1,3</sup>			
	Fall Armyworm <sup>1</sup>			by air, apply in a minimum of 2 gals.
	Southern Armyworm			of water/A.
	Corn Earworm		(	• Do not apply within 1 day of harvest.
	Tobacco Budworm <sup>3</sup>			• Do not apply more than 0.3 lb. a.i. (2.
	European Corn Borer			pts.)/A per season.
-	Flea Beetle spp.		]	For control of first and second instar
	Japanese Beetle (Adult)	1		only.
	Vegetable Weevil			<sup>2</sup> Suppression only.
	(Adult)		<b>\</b>	<sup>3</sup> See resistance statement under
	Grasshopper spp.		· ·	GENERAL INFORMATION.
	Leafhopper spp.			
	Plant Bug spp. including			
	Lygus spp. <sup>3</sup>			· · · · · · · · · · · · · · · · · · ·
	Stink Bug spp.			
i.	Meadow Spittlebug			
	Aphid spp. <sup>2,3</sup>		1	
	Whitefly spp. <sup>2,3</sup>			
	Spider Mite spp. <sup>2</sup>	`		
ONION ·	Cutworm spp.	0.015-0.025	1.92-3.20	• Apply as required by scouting, usually at
(BULB)	Seedcorn Maggot (Adult)		F	intervals of 5 or more days, Timing and
AND	Onion Maggot (Adult)	÷		frequency of applications should be based
GARLIC	Leafminer spp. (Adult)			upon insect populations reaching locally
GARLIC		0.02-0.03	2.56-3.84	determined economic thresholds.
	Armyworm spp. <sup>1</sup>			• Use the higher label rates as thrips
	Onion Thrips <sup>3</sup>			population increases and avoid
	Tobacco Thrips <sup>3</sup>			rescue situations.
	Western Flower Thrips <sup>2,3</sup>			• Apply with ground or air equipment
	Flower Thrips <sup>2,3</sup>			using sufficient water and application
	Aphid spp. <sup>2</sup>	· · ·	l	methods to obtain full coverage of
	Plant Bug spp.			foliage. When applying by air, apply
	Stink Bug spp.			in a minimum of 2 gals. of water/A.
	5 11			• For thrips control by aerial application, the
				addition of 1 % COC v/v, 1/4% NIS v/v, or a
				silicone adjuvant (follow manufacturer's use
[				directions) may enhance the deposition of the
			l .	spray and increase plant coverage.
ļ				• Do not apply within 14 days of
.				harvest.
				• Do not apply more than 0.24 lb. a.i.
				(1.92 pts.)/A per season.
•		· _		<sup>1</sup> For control of the first and second
				instars only.
1				<sup>2</sup> Suppression only.
	· I			
				<sup>3</sup> See resistance statement under GENERAL INFORMATION.

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	Rate		T	
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
PEANUT	Cutworm spp. Green Cloverworm Velvetbean Caterpillar Red-necked Peanut Worm	0.015-0.025	1.92-3.20	• Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon
	Potato Leafhopper Corn Earworm Fall Armyworm <sup>1</sup> Bean Leaf Beetle Southern Corn Rootworm (Adult) Vegetable Weevil Whitefringed Beetle (Adult) Stink Bug spp.	0.02-0.03	2.56-3.84	<ul> <li>insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water/A.</li> <li>Do not apply within 14 days of harvest.</li> <li>Do not apply more than 0.12 lb. a.i.</li> </ul>
	Tobacco Thrips Grasshopper spp. Beet Armyworm <sup>2,3</sup> Soybean Looper <sup>2,3</sup> Lesser Cornstalk Borer <sup>2</sup> Spider Mite spp. <sup>2</sup> Aphid spp. <sup>2</sup>	0.03	3.84	<ul> <li>(0.96 pt.)/A per season.</li> <li>Do not graze livestock in treated areas.</li> <li>Do not use treated vines or hay for animal feed.</li> <li><sup>1</sup> Use higher rates for large larvae.</li> <li><sup>2</sup>Suppression only.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> </ul>
POME FRUITS: Apple Crabapple Loquat Mayhaw Oriental Pear Pear Quince	Leafroller spp. Codling Moth Tufted Apple Budworm Oriental Fruit Moth Lesser Appleworm Green Fruitworm Tent Caterpillar spp. Tentiform Leaf Miner spp. Apple Maggot (Adult) Cherry Fruit Fly spp.	0.02-0.04	2.56-5.12	<ul> <li>Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in</li> </ul>
•	(Adult) Pear Sawfly Plum Curculio Japanese Beetle Plant Bug spp. Stink Bug spp. Leafhopper spp. Periodical Cicada Apple Aphid Rosy Apple Aphid			<ul> <li>a minimum of 5 gals. of water/A but use higher volumes as appropriate for thorough coverage.</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not apply more than 0.2 lb. a.i. (1.6 pts.)/A per year.</li> <li>Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.</li> </ul>
· ·	Pear Psylla <sup>1</sup> San Jose Scale (fruit infestations only) Orange Tortrix Omnivorous Leafroller Spirea Aphid <sup>1</sup> Tree Borer spp. Webworm spp.			<sup>1</sup> Suppression only.

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		Rate		
Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
STONE FRUITS: Apricot Sweet and Tart Cherry Nectarine Peach Plum Chickasaw Plum Damson Plum Japanese Plum Plumcot Prune	Leafroller spp. Peach Twig Borer Oriental Fruit Moth Peachtree Borer spp. Green Fruitworm Tent Caterpillar spp. American Plum Borer Cherry Fruit Fly spp. (Adult) Plum Curculio Rose Chafer Japanese Beetle Plant Bug spp. Stink Bug spp. Leafhopper spp. Periodical Cicada Black Cherry Aphid Apple Maggot (Adult) Codling Moth June Beetle Pear Sawfly Thrips spp.	0.02-0.04	2.56-5.12	<ul> <li>Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 5 gals. of water/A, but use higher volumes as appropriate for thorough coverage.</li> <li>Do not apply within 14 days of harvest.</li> <li>Do not apply more than 0.2 lb. a.i. (1.6 pts.)/A per year.</li> <li>Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per year post bloom.</li> </ul>
SUGARCANE	Sugarcane Borer <sup>1</sup> Rice Stalk Borer <sup>1</sup> Sugarcane Beetle (Adult) <sup>2</sup> Yellow Sugarcane Aphid <sup>3</sup> Mexican Rice Borer <sup>1</sup> Pygmy Mole Cricket Sugarcane Aphid <sup>3</sup> West Indian Cranefly	0.025-0.04	3.20-5.12	<ul> <li>Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.</li> <li>Apply with ground or air equipment using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply a minimum of 2 gals. of water/A.</li> <li>Do not apply within 21 days of harvest.</li> <li>Do not apply more than 0.16 lb. a.i. (1.28 pts.)/A per season.</li> <li><sup>1</sup>For control before the larva bores into the plant stalk.</li> <li><sup>2</sup>Suppression only of beetles active above ground.</li> <li><sup>3</sup>See resistance statement under GENERAL INFORMATION.</li> </ul>

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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
SUNFLOWER	Sunflower Beetle	0.015-0.025	1.92-3.20	
	Cutworm spp.			• Apply as required by scouting,
	Sunflower Moth	0.02-0.03	2.56-3.84	usually at intervals of 5 or more
,	Banded Sunflower Moth			days. Timing and frequency of
	Fall Armyworm <sup>1</sup>			applications should be based upon
	Woollybear Caterpillar			insect populations reaching locally
	Spotted Cabbage	ļ		determined economic thresholds.
	Looper			• Apply with ground or air equipment
· .	Painted Lady (Thistle)			using sufficient water to obtain full
	Caterpillar			coverage of sunflower heads and/or
	Seed Weevil (Adult)			foliage. When applying by air, apply
	Stem Weevil (Adult)			in a minimum of 2 gals. of water/A.
	Head-Clipper Weevil			• Do not apply within 45 days of
	(Adult)			harvest.
	Japanese Beetle (Adult)			• Do not apply more than 0.12 lb. a.i.
	Sunflower Maggot			(0.96 pt.)/A per season.
	(Adult)		l	• Do not apply more than 0.09 lb. a.i.
	Leafhopper spp.		1	(0.72 pt.)/A per season after bloom
	Meadow Spittlebug	1		initiation.
	Stink Bug spp.			• Do not apply as a ultra-low volume
•	Grasshopper spp.			(ULV) spray.
	Beet Armyworm <sup>2,3</sup>	0.03	3.84	
	Spider Mite spp. <sup>2</sup>			<sup>1</sup> Use higher rates for large larvae.
	-r			<sup>2</sup> Suppression only.
				<sup>3</sup> See resistance statement under
			1	GENERAL INFORMATION.
TOBACCO	Tobacco Budworm <sup>2</sup>	0.015-0.03	1.92-3.84	• Apply as required by scouting,
	Tobacco Hornworm			usually at intervals of 7 or more
	Cabbage Looper			days. Timing and frequency of
•	Corn Earworm			applications should be based upon
	Salt Marsh Caterpillar			insect populations reaching locally
	Armyworm spp.'			determined economic threshold.
	Cutworm spp.		· · ·	• Apply with ground or air equipment
	Webworm spp.		:	using sufficient water to obtain full
	Tobacco Flea Beetle			coverage of the foliage. When applying by air, apply in a minimum
	(Adult)			of 2 gals. of water/A.
	Cucumber Beetle spp.			• Do not apply within 40 days of
	(Adult)			harvest.
	Blister Beetle spp.			• Do not apply more than 0.09 lb. a.i.
	Vegetable Weevil			(0.72  pt.)/A per year.
	(Adult)			(on 2 punt por your.
	Japanese Beetle (Adult)			<sup>1</sup> For control of first and second instar
	Grasshopper spp.			only.
i	Tree Cricket spp.			<sup>2</sup> Suppression only.
	Katydid spp.			<sup>3</sup> See resistance statement under
	Plant Bug spp. <sup>3</sup>			GENERAL INFORMATION.
	Stinkbug spp.		· .	
	Tobacco Thrips spp. <sup>2</sup>	-		
	Tobacco Aphid spp. <sup>2,3</sup>			
	Tobacco Hornworm			
	Potato Tuberworm			

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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
TREE NUTS:	Leafroller spp.	0.02-0.04	2.56-5.12	• Apply as required by scouting,
Almond	Navel Orangeworm			usually at intervals of 5 or more
Beech Nut	Codling Moth			days. Timing and frequency of
Brazil Nut	Filbertworm			applications should be based upon
Butternut	Peach Twig Borer			insect populations reaching locally
Cashew	Walnut Husk Fly spp.			determined economic threshold.
Chestnut	(Adult)			• Apply with ground or air equipment
Chinquapin	Ants			using sufficient water to obtain full
Filbert	Plant Bug spp.			coverage of the foliage or target
(Hazelnut)	Stink Bug spp.			area. When applying by air, apply in
Hickory Nut	Chinch Bug			a minimum of 5 gals. of water/A, but
Macadamia Nut	Leaffooted Bug		· ·	use higher rates as appropriate for
(Bush Nut)	Walnut Aphid			thorough coverage.
Walnut, Black				• Do not apply within 14 days of
Walnut,				harvest.
English				• Do not apply more than 0.16 lb. a.i.
(Persian)				(1.28 pts.)/A per year.
Pecan	Hickory Shuckworm	0.02-0.04	2.56-5.12	• Do not apply more than 0.12Ib. a.i.
	Pecan Casebearer spp.			(0.96 pt.)/A per year post bloom.
	Pecan Weevil			
· · · ·	Pecan Aphid spp.			
	Pecan Spittlebug			1
	Pecan Phylloxera spp.	•		· · ·
	Stink Bug spp.			
	· · · · · · · · · · · · · · · · · · ·			

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Crop	Target Pests	lb. a.i./A	fl. oz./A	Remarks
CONIFER AND DECIDUOUS TREES: Plantations Nurseries	Pine Tip Moth spp. Spruce Budworm Bagworm Tent Caterpillar spp. Leafroller spp. Gypsy Moth Webworm spp. Tussock Moth spp. Pine Sawfly spp. Sawfly spp. Pine Chafer Japanese Beetle	0.02-0.04	2.56-5.12	<ul> <li>To control exposed foliage, flower, cone, seed, and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.</li> <li>Apply with ground equipment using sufficient water to obtain full coverage of target site. When applying by air, apply a minimum of 2 gals. of water/A.</li> </ul>
	May Beetle spp. June Beetle spp. Pine Colaspis Beetle Leaf Beetle spp. Pales Weevil Pine Weevil spp. Pine Conelet Bug Spittlebug spp. Pine Leaf Chermid Balsam Wooly Aphid Balsam Twig Aphid			<ul> <li>Do not apply more than 0.24 lb. a.i. (1.92 pts.)/A per year.</li> <li><sup>1</sup> Suppression only.</li> </ul>
	Birch Leafminer Black Pine Weevil Elm Leaf Beetle European Elm Bark Beetle Mealybug spp. <sup>1</sup> Pine Needle Scale Pine Tortoise Scale Poplar Aphid spp.			
CONIFER AND DECIDUOUS TREES: Seed Orchards	Coneworm spp. Seed Bug spp. Thrips spp.	See Remarks	See Remarks	<ul> <li>For high volume sprayers, dilute 5.12 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.</li> <li>For low volume sprayers, dilute 20 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per/A.</li> <li>For aerial applications, apply 15 fl. oz./A in a minimum of 10 gals. finished spray/A.</li> <li>Do not apply more than 0.5 lb. a.i. (4 pts.)/A per year.</li> </ul>
NON- CROPLAND (Excluding Public Land)	See Crop Outlets on this label for target pest and rates.	See Crop Outlets	See Crop Outlets	<ul> <li>Spray non-cropland adjacent to agricultural areas to control migratory insects, which may threaten crops.</li> <li>Follow general use directions, rates, and spray recommendations found elsewhere in this label for the adjacent crop outlet and target pests.</li> <li>Use highest labeled rates for dense/large foliage, high insect</li> </ul>

# NON-AGRICULTURAL USES

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		populations, and larger larval stages.
		• Repeat as necessary to maintain
		control.
	· · · · · · · · · · · · · · · · · · ·	• Do not exceed 0.2 lb. a.i. (1.6 pts.)/A
		per year.
		<ul> <li>Do not graze livestock in treated</li> </ul>
		areas.

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# Rate Conversion Chart

Lb. A.I. Per Acre	Fl. Oz. Per Acre	Pints Per Acre	Treated Acres Per Gallon
0.015	1.92	. 0.12	66
0.02	2.56	0.16	50
0.025	3.20	0.20	40
0.03	3.84	0.24	33
0.04	5.12	0.32	25

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

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

[For Bulk, Mini-Bulk, EZ Handler® and Boomerang Container Disposal Return container to point of purchase for reuse with seal intact and in salable condition. Container Precautions

Before refilling RETURNABLE CONTAINERS, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. Container Precautions

Before refilling RETURNABLE CONTAINERS, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. **Refill Only With Lambda-Cy AG Gold.** The contents of RETURNABLE CONTAINERS cannot be completely removed by cleaning. Refilling with materials other than Lambda-Cy AG Gold will result in contamination and may weaken container.

After filling and before transporting, check for leaks.

Do not refill or transport damaged or leaking container. CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

#### **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of J. OLIVER PRODUCTS, LLC, Inc. or Seller. To the extent consistent with applicable law all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold J. OLIVER PRODUCTS, LLC and Seller harmless for any claims relating to such factors.

J. OLIVER PRODUCTS, LLC 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 referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or J. OLIVER PRODUCTS, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW J. OLIVER PRODUCTS, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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