# 12/22/2009

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# U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460 EPA Registration No.

83222-23

Date of Issuance:

DEC 2 2 2009

# NOTICE OF PESTICIDE:

☑ Registration ☐ Reregistration

(under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)

Term of Issuance:

**Conditional** 

Name of Pesticide Product:

Lambda 25 CS

Name and Address of Registrant (include ZIP Code):

J. Oliver Products, Inc. 3187 Robertson Gin Road Hernando, MS 38632

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

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

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

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(a) provided that you:

- 1. Note that the Agency's acceptance of this product registration is contingent on the compliance of the registrant and the conditions of registration for the product registration cited on the Formulator's Exemption Statement and Confidential Statement of Formula. As such, this registration is subject to the following product chemistry data requirements:
  - OPPTS Guideline 830.6317, Storage Stability Study
  - OPPTS Guideline 830.6320, Corrosion Characteristics Study
- 2. Submit and/or cite all data required for registration of your product under FIFRA Section 3(c)(5) when the Agency requires all registrants of similar products to submit such data, and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 3. In the Tank Mixtures section on page four of the label, replace the statement regarding "a compatibility agent" with one of the following sentences in quotes:
  - a. Delete "such as" so that it reads as "If necessary, a compatibility agent may assist in mixing," or

- b. "If necessary, a compatibility agent such as [registrant to insert appropriate example(s)] may assist in mixing."
- 4. The foliar application to corn use rates, target pests, and notes on page 10 are mostly a düplicate of page 8; move the following target pests from page 10 to page 8 of the draft label:
  - aphid species (suppression only)
  - aster leafhopper
  - common cornstalk borer
  - Southern armyworm
  - spider mite species (suppression only)
  - Tarnished plant bug
  - Western bean cutworm
  - corn silkfly (adult) (suppression only)
- 5. Delete the duplicate table of target pests, use rates, and notes for "corn (foliar) including field, popcorn, and seed corn" use from page 10.
- 6. Revise the word "toll" to "roll" on page 19 of the label.
- 7. Revise the EPA Registration Number to read: "EPA Registration No. 83222-23" on page 1 of the label.

Two copies of the finished labeling must be submitted prior to releasing the product for shipment. 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. A copy of your label stamped "Accepted with Comments" is enclosed for your records.

If you have any questions concerning this action, please contact Rosanna Louie at (703) 308-0037.

# Enclosure:

- Lambda 25 CS Label, Stamped Accepted with Comments

Signature of Approving Official:

Date:

DEC 2 2 2009

Kimberly Nesci

Product Manager (11)

Registration Division, Insecticide Branch

EPA Form 8570-6

# RESTRICTED USE PESTICIDE

DUE TO TOXICITY TO FISH AND AQUATIC ORGANISMS
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.

# Lambda 25 CS

	GROUP	3	INSECTICIDE		, , , , , , , , , , , , , , , , , , ,
		hould sell in c	original packages only		3
Active Ingredic	ent:	•		By Wt.	3903
Lambda-cyhalo	thrin: [1a(S*),3a(Z)]-(±)-cy	/ano-(3-pheno)	kyphenyl)methyl-3-	0 2 2 3 2 2	່າຄາດີ
	trifluoro-1-propenyl)-2,2-d			. 23.6% <sup>*</sup> °°°	9937
	its:				າງຊີ້ວ
				100.0%	2223
Contains 2 16 r	oounds active ingredient p	er dallon			1 0 0 0 0
Contains petrol		er gallon.		:	ი იი ი ი იკეი
FDA Don No. (	2222 VV		EDA.	Γst No.	
EPA Reg. No. 8	03222-1	84		Est. No.	<del></del>
		Manufactur	ea BV:		

Manufactured By: J. Oliver Products, Inc. 3187 Robertson Gin Road Hernando, MS 38632

Net Contents \_\_\_\_

ACCEPTED with COMMENTS In EPA Letter Dated:

DEC 22 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 83222-23

# WARNING / AVISO

	FIRST AID
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</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 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 on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <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 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>
•	per or label with you when calling a poison control center or doctor, or going for call the Poison Control Center 800-222-1222.

**Note to Physician** - Contains petroleum distillate – vomiting may cause aspiration pneumonia. This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

# PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

# Warning / Aviso

May be fatal if swallowed. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, protective eyewear, and chemical-resistant gloves Category G such as barrier laminate or viton ≥. 14 mils.

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 invertebrates and toxic to wildlife. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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 to drift to blooming crops if bees are visiting the treatment area.

# DIRECTIONS FOR USE

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

# SHAKE WELL BEFORE USING

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, wear:

- Coveralls
- Chemical-resistant gloves Category G, such as barrier laminate, or viton. ≥. 14 mils.
- Shoes plus socks

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

## **APPLICATION INSTRUCTIONS**

Thorough crop coverage is necessary for good control of insects. Apply by ground or aerial equipment in enough water (minimum 2 gal / acre by air, or 10 gal / acre by ground unless directed otherwise by this label) to completely cover foliage. In dense foliage or high pest pressure, the higher use rates on this label, and / or increased water volume may provide better control. For soil-incorporated application, the higher rates indicated on this label will provide improved control. For cutworm control, this product may be applied before, during, or after planting. In addition, the following may be used as diluents:

- Crop Oil Concentrate
- Methylated Sunflower Oils
- Urea-Ammonium Nitrate

Do not use non-emulsifiable oils, diesel fuel, or straight mineral oil as diluents.

# **RESISTANCE MANAGEMENT**

Lambda cyhalothrin is a Group 3 (synthetic pyrethroid) insecticide. 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 may be the cause, immediately consult your local 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 WATER SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES, OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS:

Do not apply by ground within 25 ft., or by air within 150 ft. of lakes; reservoirs; rivers; permanent

streams, marshes, pot holes, or natural ponds, estuaries and commercial fish farm ponds. Increase the buffer zone to 450 ft. 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 ft. above the crop canopy should be avoided.
- Make aerial or ground applications when the wind velocity favors on-target product deposition (approximately 3 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 ft. 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 ft. 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 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

## **TANK MIXTURES**

When tank mixing with any other agricultural products, ALWAYS ADD LAMBDA 25 CS LAST. Fill the tank with  $\frac{1}{2}$  -  $\frac{2}{3}$  volume of water. Start agitation and then add tank mix partner products as directed on their labels. AFTER the tank mix partners are fully dispersed, continue agitation and add Lambda 25 CS, then finish filling with water to the required volume.

## Always follow the precautions and limitations of the most restricted product in the tank mixture.

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. If necessary, a compatibility agent such as may assist in mixing

# **Compatibility Test:**

Before mixing in the spray tank, it is advisable to test compatibility by mixing all components in a small container in proportionate quantities.

If pesticides do not ball-up or form flakes, sludge, gel, oily films or layers, or other precipitates, then the tested mixture is compatible. Usually incompatibility in any of the above-described forms will be seen within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Re-run the above compatibility test with a suitable compatibility agent (e.g. COMPLETE COMPATIBILITY®. (One quarter teaspoon is equivalent to 2 pints per 100 gallons of fluid fertilizer.)

Tested material not used in the actual application must be disposed of in accordance with the Storage and Disposal instructions on this label.

No type of non-emulsifiable oils should be used in combination with Lambda 25 CS.

If adjuvants are used, use only:

· Nonionic Surfactant (NIS) containing at least 75% surface agent, or

• Nonphytotoxic Crop Oil Concentrate (COC), such as 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:

- 1. Contains only EPA exempt ingredients.
- 2. Is nonphytotoxic to the target crop.
- 3. Is compatible in mixture. (May be established through a jar test.)

### **CHEMIGATION**

# **Sprinkler Irrigation Application**

Apply Lambda 25 CS at the same rates and timing as described in this label for other application methods.

As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types.

Check the irrigation system to insure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Maintain thorough agitation in the pesticide supply tank when mixing / loading, and during the entire application period.

Apply by injecting the recommended rate of Lambda 25 CS into the irrigation system using a metering device that will evenly distribute the product to the target area in 0.1-0.2 acre-inch of water. Use the smallest amount of water required for even and complete coverage. In order to improve mixing of the insecticide in the irrigation water, the injection point should be shortly before a right-angle turn in the irrigation line.. Following application, flush the entire irrigation and injection system with clean water before shutting down the system.

If application is being made during a normal irrigation set of a stationary sprinkler, Lambda 25 CS should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

# **Use Precautions - Sprinkler Irrigation Applications**

- A. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move. Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- C. If you have any 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 back-flow.
- 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, 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.
- 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 to 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 are capable of being fitted with a system interlock.

L. Any alternatives to the above required safety devices must conform to the list of EPA - approved alternative devices.

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

N. Do not apply 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 an average of at least 25 individuals daily at least 60 days out of the year.

# CROPS AND RATES Agricultural Crops

Alfalfa (including alfalfa grown for seed)

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
meadow spittlebug Mexican bean beetle pea aphid pea weevil (adult) plant bug species including lygus species <sup>3</sup> spotted alfalfa aphid stink bug species sweet clover weevil (adult) thrips species (not including western flower thrips) western yellowstriped armyworm whitefringed beetle species (adult) yellowstriped armyworm	1.28 to 1.92
beet armyworm <sup>1,3</sup> spider mites <sup>2</sup> blotch leafminer <sup>3</sup>	1.92

# NOTES:

Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. Apply in a-minimum of 2 gals. per acre by air or 10 gals. per acre by ground. When foliage is dense and/or pest populations are high 5–10 gals. per acre by air or 20 gals. per acre by ground and higher use rates are recommended. Use higher rates for increased residual control.

Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Be aware of bee hazard resulting from a cool evening and/or morning dew. It may be advisable to remove bee shelters during and for 2–3 days following application. Avoid direct application to bee shelters.

**Do not** apply more than 0.03 lb. a.i. (1.92 fl. oz. or 0.12 pts. of product) per acre per cutting. **Do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season. **Do not** apply within 1 day of harvest for forage or within 7 days of harvest for hay.

- 1 For large larvae, use the higher rate
- 2 Provides suppression only
- 3 Avoid resistance by following directions under "Resistance Management"

## Canola

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
armyworm species cabbage seedpod weevil cutworm species diamondback moth flea beetle grasshoppers looper species lygus bug	0.96 to 1.92
cabbage aphid	1.92

### NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Do not apply within 7 days of harvest.

**Do not** apply more than 5.76 fl. oz. or 0.36 pts. of this product (or equivalent to 0.09 lb ai if using other lambda cyhalothrin products) per acre per year.

Corn (at planting) including field, popcorn, seed, and sweet

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TARGET PEST	RATE
corn rootworm larvae: Mexican, Northern, Southern, Western cutworm species	0.33 fl. oz per 1000 ft of row
lesser cornstalk borer red imported fire ant (suppression only)	
seedcorn beetle seedcorn maggot white grub species	,
wireworm species	

### NOTES

**Banded Applications** – Apply at planting as a 5 to 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.

**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. finished spray per acre.

**Do not** harvest or graze livestock or cut treated crops for feed within 21 days of at plant application.

**Do not** apply more than 5.76 fl. oz. or 0.36 pts. of this product (or equivalent to 0.09 lb ai if using other lambda cyhalothrin products) per acre per year. For field corn, popcorn, and seed corn **do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per crop from at plant and foliar applications. For sweet corn **do not** apply more than 0.48 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per crop from at plant and foliar applications.

Corn (foliar) including field, popcorn, and seed corn

<del></del>
RATE (FL. OZ. Lambda 25 CS per acre)
0.96 to 1.6
1.28 to 1.92
1.92

# NOTES:

Inspect crop by scouting, or by local corn growth stages, usually at intervals of 7 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss. Apply with ground or air equipment using sufficient water of thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

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. In heavy infestations, applications may provide only suppression of infestation or subsequent migration.

For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program use a minimum of 0.03 lb. a.i. (1.92 fl. oz. of product) per acre.

Do not apply within 21 days of harvest.

**Do not** allow livestock to graze in treated areas or harvest treated 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.

**Do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per crop from at plant and foliar applications. **Do not** apply more than 0.06 lb. a.i. (3.84 fl. oz. or 0.24 pts. of product) per acre after silk initiation. **Do not** apply more than 0.03 lb. a.i. (1.92 fl. oz. or 0.12 pts. of product) per acre after corn has reached the milk stage (yellow kernels with milky fluid).

Sweet Corn (foliar)

TARGET PEST	RATE
corn rootworm larvae: Mexican, Northern, Southern, Western cutworm species	0.33 fl. oz per 1000 ft of row
lesser cornstalk borer red imported fire ant (suppression only) seedcorn beetle	
seedcorn maggot white grub species wireworm species	

### NOTES:

**Banded Applications** – Apply at planting as a 5 to 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.

**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. finished spray per acre.

Do not harvest or graze livestock or cut treated crops for feed within 21 days of at plant application.

**Do not** apply more than 5.76 fl. oz. or 0.36 pts. of this product (or equivalent to 0.09 lb ai if using other lambda cyhalothrin products) per acre per year. For field corn, popcorn, and seed corn **do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per crop from at plant and foliar applications. For sweet corn **do not** apply more than 0.48 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per crop from at plant and foliar applications.

Corn (foliar) including field, popcorn, and seed corn

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
aphid species (suppression only) armyworm (use higher rate for large larvae)	1.28 to 1.92
aster leafhopper beet armyworm (use higher rate for large larvae),3 chinch bug common cornstalk borer corn earworm	
corn rootworm beetle (adult): Mexican, Northern, Southern, Western cutworm species European corn borer fall armyworm (use higher rate for large larvae)	
flea beetle species grasshopper species Japanese beetle (adult) sap beetle (adult) Southern armyworm (use higher rate for large larvae)	ø
Southwestern corn borer spider mite species (suppression only) stink bug species tarnished plant bug	
webworm species Western bean cutworm yellowstriped armyworm (use higher rate for large larvae)	
corn silkfly (Adult) (suppression only)	1.92

# NOTES:

Inspect crop by scouting, or by local corn growth stages, usually at intervals of 4 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss. Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial applied corn rootworm control program use a minimum of 0.025 lb. a.i. (1.6 fl. oz. of product) per acre.

Do not apply within 1 day of harvest.

**Do not** allow livestock to graze in treated areas or harvest treated 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.

**Do not** apply more than 0.48 lb. a.i. (30.72 fl. oz. or 1.92 pts. of product) per acre per crop from at plant and foliar applications.

# Rice, Wild Rice

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
bird cherry-oat aphid chinch bug fall armyworm grasshopper species greenbug leafhopper species rice stink bug rice water weevil (adult) riceworm sharpshooter species true armyworm yellow sugarcane aphid yellowstriped armyworm	1.6. to 2.56
European corn borer Mexican rice borer rice seed midge rice stalk borer sugarcane borer	1.92 to 2.56  NOTE: Application must be made before larvae bore into the stalks.

### NOTES:

Inspect crop by scouting. Apply when insect populations reach locally-determined population that may lead to yield loss. Repeat applications may be made at 5 to 7 day intervals, if indicated by scouting.

Lambda 25 CS may be applied to crops also treated with propanil as a herbicide.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre. Use of an emulsified crop oil may improve performance.

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 at flood establishment or within 5 days. **Do not** exceed 10 days from starting permanent flood until insecticide application unless weevils have not been previously present in that area. Adults may also be treated at later stages of rice development to reduce overwintering populations.

To control rice water weevil in water-seeded rice, apply 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 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.

In water - seeded rice in California, Lambda 25 CS may also be applied at the 1-3 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. Scout for adults, based upon history of infestation in that field. Monitor field edges and levee areas for adults. If adults are found, spray the inside perimeter of the field, or if necessary, spray the entire field.

Lambda 25 CS may only provide suppression of certain biotypes of greenbug. If satisfactory control is not achieved with the first application of Lambda 25 CS, a resistant biotype may be present. In this case, an alternate (non-pyrethroid) insecticide registered for this use should be used.

For control of stem borers, scout fields when rice growth is near panicle differentiation for early symptoms such 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.

Apply 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 stage for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.

Mixers / loaders supporting aerial applications to wild rice at a rate of 0.04 lb. ai. per acre, and treating 1200 acres (or more) per day must wear dust-mist respirator.

**Do not** release floodwater within 7 days after an application.

**Do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pt. of product) per acre per season. **Do not** apply more than 0.04 lb. a.i. (2.56 fl. oz. or 0.16 pt. of product) per acre 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 aquatic crustaceans.

Do not apply as an ultra-low volume (ULV) spray.

Grain Sorghum (Milo)

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species sorghum midge	0.96 to 1.28
armyworm beet armyworm (avoid resistance by following directions under "resistance management") corn earworm European corn borer (before larvae bore into stalk) fall armyworm (use higher rate for large larvae) flea beetle species grasshopper species lesser cornstalk borer (before larvae bore into stalk) Southwestern corn borer(before larvae bore into stalk) stink bug species webworm species yellowstriped armyworm (use higher rate for large larvae)	1.28 to 1.92
chinch bug Mexican rice borer (before larvae bore into stalk) rice stalk borer (before larvae bore into stalk) sugarcane borer (before larvae bore into stalk)	1.92

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For sorghum midge control, make the first application when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed.

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. In heavy infestations, applications may provide only suppression of infestation or subsequent migration

**Do not** apply more than 0.08 lb. a.i. (5.12 fl. oz. or 0.32 pt. of product) per acre per season. **Do not** apply more than 0.06 lb. a.i. (3.84 fl. oz. or 0.24 pt. of product) per acre per season after crop emergence.

Do not apply more than 0.02 lb. a.i. (1.28 fl. oz. or 0.08 pt. of product) per acre per season once crop is in soft-dough stage.

Do not apply within 30 days of harvest.

Small Grains (Barley, Buckwheat, Oats, Rye, Triticale, Wheat and Wheat Hay)

TARGET PEST	RATE
	(FL. OZ. Lambda 25 CS per acre)
cutworm species	0.96 to 1.6
(including army cutworm)	
armyworm	1.28 to 1.92
bird cherry-oat aphid (apply before insects begin to roll	
leaves. after beginning of boot stage, higher rates may be	,
needed)	
cereal leaf beetle	
English grain aphid (apply before insects begin to roll	
leaves: after beginning of boot stage, higher rates may be	
needed)	
fall armyworm	
flea beetle species	
grasshopper species Hessian fly when adults emerge)	·
orange blossom wheat midge	
Russian wheat aphid (apply before insects begin to roll	
leaves. after beginning of boot stage, higher rates may be	
needed)	·
stink bug species	·
yellowstriped armyworm	
grass sawfly	1.6 to 1.92
chinch bug	1.92
corn leaf aphid (suppression only)	
greenbug (apply before insects begin to roll leaves. after	
beginning of boot stage, higher rates may be needed),	
(avoid resistance by following directions under "resistance	
management")	
mite species (suppression only)	
NOTES:	

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For chinch bug control, repeat applications at 3-5-day intervals if needed. In heavy infestations, applications may provide only suppression of infestation or subsequent migration

Lambda 25 CS may only provide suppression of certain biotypes of greenbug. If satisfactory control is not achieved with the first application of Lambda 25 CS, a resistant biotype may be present. In this case, an alternate (non-pyrethroid) insecticide registered for this use should be

Do not apply within 30 days of harvest.

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 treatment. Do not feed treated straw to meat or dairy animals within 30 days after the last treatment.

Do not apply more than 0.06 lb. a.i. (3.84 fl. oz. or 0.24 pts. of product) per acre per season.

# Cole Crops (Broccoli, Brussels Sprouts, Cabbage, Cavalo broccolo, Cauliflower, Gai Lon (Chinese Broccoli), Napa (Chinese Cabbage), Gai Choy (Chinese Mustard Cabbage), Kohlrabi

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
alfalfa looper	0.96 to 1.6
cabbage looper	
cabbage webworm	·
cutworm species	
imported cabbageworm	
Southern cabbageworm	
aphid species, suppression only (avoid resistance by	1.28 to 1.92
following directions under "resistance management")	
armyworm	
beet armyworm first and second instar only (avoid	
resistance by following directions under "resistance	•
management")	
corn earworm	
diamondback moth (avoid resistance by following directions	·
under "resistance management")	•
fall armyworm, suppression only	
flea beetle species	
grasshopper species	
Japanese beetle (adult)	
leafhopper species	
meadow spittlebug	
plant bug species including lygus species (avoid resistance	
by following directions under "resistance management")	
spider mite specie, suppression only	
stink bug species	
thrips species, suppression only	
vegetable weevil (adult)	·.
whitefly species, suppression only (avoid resistance by following directions under "resistance management")	
yellowstriped armyworm	

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Do not apply within 1 day of harvest.

Do not apply more than 0.24 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.

## COTTON

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species	0.96 to 1.6
soybean thrips	0.00 to 1.0
tobacco thrips	
cabbage looper	1.28 to 1.92
cotton fleahopper	
cotton leaf perforator	
cotton leafworm	
lygus bug species, suppression only	
pink bollworm	•
saltmarsh caterpillar	
bandedwing whitefly	1.6 to 2.56
beet armyworm, first and second instar only (avoid	_
resistance by following directions under "resistance	
management")	
boll weevil	
brown stink bug	
cotton aphid, suppression only (avoid resistance by	·
following directions under "resistance management") cotton bollworm	
European corn borer	
fall armyworm	·
green stink bug	·
southern green stink bug	
sweet potato whitefly, suppression only (avoid resistance	
by following directions under "resistance management")	
tobacco budworm (avoid resistance by following directions	
under "resistance management")	
twospotted spider mite, suppression only	

# NOTES:

Inspect crop by scouting at intervals of 5 to 7 days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Applications may also be made with equipment adapted and calibrated for ULV sprays. Mix with once-refined vegetable oil and apply in a minimum of at least one quart of this mixture per acre. When bollworm or budworm pressure is low, the rate may be reduced to 0.02 lb. a.i. (1.28 fl. oz. of product) so long as there is intense monitoring of insect population in the treated field.

To maintain adequate boll weevil control, repeat applications every 3 to 5 days.

Lambda 25 CS also provides ovicidal activity against cotton bollworm and tobacco budworm when applied according to label directions.

Do not apply within 21 days of harvest.

Do not graze livestock in treated areas.

Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. or 0.8 pt. of product) per acre per season.

**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.

CUCURBIT VEGETABLES: Chayote (fruit), Chinese Waxgourd, (Chinese preserving melon), Citron Melon, Cucumber, Gherkin, Gourd (edible), Lagenaria species (includes: hyotan, cucuzza), Luffa acutangula, L. cylindrical (includes: hechima, Chinese okra), Momordica species (includes: balsam apple, balsam pear, bitter melon, Chinese cucumber), Muskmelon (hybrids and/or cultivars of Cucumis melo, including true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon), Pumpkin, summer squashes

(Cucurbita pepo var melopepo – includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini), Winter squashes (Cucurbita maxima; C. moschata -includes butternut squash, calabaza, hubbard squash), (*C. mixta*; *C. pepo* - includes: acorn squash, spaghetti squash), Watermelon (includes: hybrids and/or varieties of *Citrulius lanatus*)

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
armyworm species (avoid resistance by following directions under "resistance management") blister beetle species cabbage looper corn earworm	1.28 to 1.92
cricket species cucumber beetle species (adults) cutworm species flea beetle species grasshopper species June beetle species	
leaffooted bug leafhopper species lygus bug species (avoid resistance by following directions under "resistance management") melonworm	
pickleworm plant bug species rindworm species complex saltmarsh caterpillar squash beetle squash bug species	
squash vine borer species stink bug species thrips species, except western flower thrips (avoid resistance by following directions under "resistance management") tobacco budworm (avoid resistance by following directions	
under "resistance management") webworm species  aphid species (avoid resistance by following directions under "resistance management") leafminer species, suppression only (avoid resistance by	1.92
following directions under "resistance management") whitefly species, suppression only (avoid resistance by following directions under "resistance management") spider mite species, suppression only	

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Use the higher application volumes and / or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.

Insects that bore or tunnel into leaves, vines, stems or fruit must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Lambda 25 CS.

**Do not** apply more than 0.18 lb. a.i. (11.5 fl. oz. or 0.72 pts. of product) per acre per season. **Do not** apply within 1 day of harvest.

FRUITING VEGETABLES: Eggplant, Ground cherry, Pepino, Peppers (bell and

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cabbage looper	0.96 – 1.60
cutworm species	1
nornworm species	
aphid species, suppression only (avoid resistance by	1.28 to 1.92
following directions under "resistance management")	
tomatillo beet armyworm, first and second instar only (avoid	
resistance by following directions under "resistance	
management")	
comato blister beetle species	·
Colorado potato beetle (avoid resistance by following	
directions under "resistance management")	•
cucumber beetle species (adult) European corn borer before larvae bore into stalk or fruit	
fall armyworm, first and second instar only	,
flea beetle species	
grasshopper species	
Japanese beetle (adult)	
eafhopper species	
eafminer species, suppression only	
meadow spittlebug	
pepper weevil (adult), suppression only	
plant bug species	
southern armyworm, first and second instar only	
spider mite species, suppression only	·
stalk borer, before larvae bore into stalk or fruit	
stink bug species	<i>'</i>
hrips, except western flower thrips	
obacco budworm (avoid resistance by following directions	·
under "resistance management")	
omato fruitworm	
omato pinworm	
omato psyllid, suppression only (avoid resistance by ollowing directions under "resistance management")	
ollowing directions under Tesistance management ) /egetable weevil (adult)	
whitefly species suppression only (avoid resistance by	
following directions under "resistance management")	
/ellowstriped armyworm1	·

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Do not apply within 5 days of harvest.

Do not apply more than 0.36 lb. a.i. (23.04 fl. oz. or 1.44 pts. of product) per acre per season.

GRASS FORAGE, FODDER, and HAY: Pasture and Rangeland Grass, Grass Grown for

Hay or Silage, and Grass Grown for Seed

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
army cutworm	0.96 – 1.6
cutworm species	·
grass Essex skipper	
range caterpillar	·
striped grass looper	
beet armyworm	1.28 to 1.92
billbug species suppression only	·
bird cherry-oat aphid before insects start to toll leaves	
black grass bug	
black turfgrass beetle	·
(adult)	
blue stem midge	
cereal leaf beetle	·
chinch bug	
crane fly species	·
cricket species	
English grain aphid before insects start to roll leaves	
fall armyworm	
flea beetle species	
grass mealybug	
grass sawfly (adult)	
grasshopper species	
green June beetle (adult)	,
greenbug before insects start to roll leaves (avoid	
resistance by following directions under "resistance	
management")	
Japanese beetle (adult)	
katydid species	
leafhopper species	
grass, grass grown for mite species, suppression only	
hay or silage and grass Russian wheat aphid before insects	
start to roll leaves	
grown for seed southern armyworm	
spittlebug species	
stink bug species	
sugarcane aphid	
thrips species	
tick species	
true armyworm	
webworm species	
yellowstriped armyworm	

# NOTES:

Inspect crop by scouting at intervals of 5 days or less. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Use higher application volumes and rates when foliage is dense, pest populations are high, larvae are large and/or weather conditions are adverse. Use higher rates for longer residual. Lambda 25 CS may only achieve suppression in case of heavy infestations and/or migrations of

chinch bugs. If this is the case, apply a second application using a non-pyrethroid insecticide. Lambda 25 CS may only provide suppression of certain biotypes of greenbug. If satisfactory control is not achieved with the first application of Lambda 25 CS, a resistant biotype may be present. In this case, an alternate (non-pyrethroid) insecticide registered for this use should be used.

Pasture and rangeland grass may be used for grazing or cut for forage 0 days after application. **Do not** cut grass to be dried and harvested for hay until 7 days after the last application. In grass grown for seed, straw, hay and mature seed (seed screenings) may be used as feed 7 days after the last application. After regrowth, grass grown for seed may be grazed, or cut for forage or to be harvested and dried for hay.

**Do not** apply more than 0.03 lb. a.i. (1.92 fl. oz. or 0.12 pts. of product) per acre per cutting for pastures, rangeland and grasses grown for seed. In pastures and rangeland receiving 0.03 lb. ai. per acre which have not been cut between applications, do not re-treat for at least of 30 days.

Do not apply more than 0.09 lb. a.i. (5.76 fl. oz. or 0.36 pts. of product) per acre per season.

**LEGUME VEGEATBLES: Peas and Beans,** including **Edible Podded** (Jackbean *Canavalia ensiformis,* Sword bean *Canavalia gladiata, immature soybean* glycine max) **Edible Podded, Succulent Shelled, or Dry Shelled** (Pigeon peas *Cajanus cajun; Phaseolus spp.* including field, kidney, Lima, navy, pinto, runner, snap, tepary, and wax beans; *Pisum spp.* including dwarf, edible-pod, English, field, garden, snow, and sugar snap peas; *Vigna spp.* including adzuki, asparagus, moth, mung, rice, urd, and yardlong, beans, black-eyed peas, catjang, Chinese longbeans, cowpeas, Crowder peas, Southern peas), **Succulent Shelled or dried shelled** - fava bean (broadbean) *Vicia fava:* **Dried Shelled** - chickpea (garbanzo bean) *Cicer arietimum:* guar bean *Cyamopsis tetragonoloba*; Lablab bean *Lablab purpureus; Lupinus spp.* including, grain, sweet, white, and sweet white lupines; and Lentils *Lens esculata.* 

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species green cloverworm Mexican bean beetle saltmarsh caterpillar velvetleaf caterpillar	0.96 – 1.6

-16-16	100/ 100
alfalfa caterpillar	1.28 to 1.92
aphid species (avoid resistance by following directions	·
under "resistance management")	
armyworm - use higher rate for large larvae.	
bean leaf beetle	
bean leaf skeletonizer	
blister beetle species	·
corn earworm	
corn rootworm beetle species (adult)	
cucumber beetle species (adult)	·.
curculio and weevil species (foliage and pod feeding adults	
and larvae before larvae bore into stalks or pods)	
European corn borer	
fall armyworm - use higher rate for large larvae.	
flea beetle species (adult)	
flea hopper species	
grasshopper species	
Japanese beetle (adult)	
Chinese leafhopper species	
leaftier species	
looper species	
meadow spittlebug	
painted lady butterfly (larva)	ef .
plant bug species including lygus species (avoid resistance	<u> </u>
by following directions under "resistance management")	
stalk borer before larvae bore into stalks or pods	
stink bug species	
threecornered alfalfa hopper	i .
thrips species excluding western flower thrips (avoid	
resistance by following directions under "resistance	,
management")	
tobacco budworm (avoid resistance by following directions	
under "resistance management")	
webworm species western bean cutworm	
western yellowstriped armyworm - use higher rate for large	
larvae.	
yellowstriped armyworm - use higher rate for large larvae	·
beet armyworm, suppression only (avoid resistance by	1.92
following directions under "resistance management")	
leafminer species, suppression only (avoid resistance by	
following directions under "resistance management")	
lesser cornstalk borer, suppression only	·
soybean looper, suppression only (avoid resistance by	1
following directions under "resistance management")	
spider mite species, suppression only	
whitefly species, suppression only (avoid resistance by	
following directions under "resistance management")	
NOTES:	
Inspect crop by scouting at intervals of 5 or more days. Appl	y when insect populations reach
locally-determined population that may lead to yield loss.	Management and the second seco
Apply with ground or air equipment using sufficient water for	
applying by air, apply a minimum of 2 gals. of water per acre	
For edible podded and succulent shelled legume vegetables	, <b>do not</b> apply within 7 days of
harvest	

For dried shelled legume vegetables, **do not** apply within 21 days of harvest. **Do not** apply more than 0.12 lb .a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season. For succulent and dried shelled peas and beans, **do not** graze livestock in treated areas or harvest vines for forage or hay.

## **SOYBEANS**

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
bean leaf beetle	0.96 - 1.6
cabbage looper	
corn earworm	
corn rootworm beetle (adult): Mexican, Northern,	
Southern, Western	
cutworm species	
green cloverworm	
Mexican bean beetle	
painted lady (thistle) caterpillar	
potato leafhopper	
saltmarsh caterpillar	
soybean aphids - use the lower rate for early season	
application or light insect pressure	· .
threecornered alfalfa hopper	
thrips species, excluding western flower thrips	·
velvetbean caterpillar	
woollybear caterpillar	
blister beetle species	1.60 to 1.92
European corn borer	1.00 10 1.02
fall armyworm - use the higher rate for large larvae.	
grasshopper species	·
Japanese beetle (adult)	
plant bug species	·
silverspotted skipper	:
stink bug species	
tobacco budworm (avoid resistance by following directions	
under "resistance management")	
webworm species	·
yellowstriped armyworm - use the higher rate for large	
larvae.	
beet armyworm, suppression only (avoid resistance by	1.92
following directions under "resistance management")	
lesser cornstalk borer	
soybean looper, suppression only (avoid resistance by	
following directions under "resistance management")	
spider mite species, suppression only	1

### NOTES

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For edible podded and succulent shelled legume vegetables, **do not** apply within 7 days of harvest.

**Do not** graze or harvest treated soybean forage, straw, or hay for livestock feed.

For control of adult corn rootworm beetles (Diabrotica species) as part of an aerial-applied corn

rootworm control program, use a minimum of 0.02 lb. a.i (1.28 fl. oz. of product) per acre. Do not apply within 30 days of harvest.

Do not apply more than 0.06 lb. a.i. (3.84 fl. oz. or 0.24 pt. of product) per acre per season.

LETTLICE (Leaf and Head)

imported cabbageworm saltmarsh caterpillar  aphid species, suppression only (avoid resistance by following directions under "resistance management") armyworm beet armyworm, first and second instar only (avoid resistance by following directions under "resistance management") corn earworm diamondback moth (avoid resistance by following directions under "resistance management") European corn borer fall armyworm, first and second instar only flea beetle species grasshopper species Japanese beetle (adult) leafhopper species meadow spittlebug plant bug species including lygus species (avoid resistance by following directions under "resistance management") southern armyworm spider mite species, suppression only stink bug species tobacco budworm (avoid resistance by following directions under "resistance management") vegetable weevil (adult) whitefly species, suppression only (avoid resistance by	LETTUCE (Leaf and Head)	
cabbage looper cutworm species green cloverworm imported cabbageworm saltmarsh caterpillar  aphid species, suppression only (avoid resistance by following directions under "resistance management") armyworm beet armyworm, first and second instar only (avoid resistance by following directions under "resistance management") corn earworm diamondback moth (avoid resistance by following directions under "resistance management") European corn borer fall armyworm, first and second instar only flea beetle species grasshopper species Japanese beetle (adult) leafhopper species meadow spittlebug plant bug species including lygus species (avoid resistance by following directions under "resistance management") southern armyworm spider mite species, suppression only stink bug species tobacco budworm (avoid resistance by following directions under "resistance management") vegetable weevil (adult) whitefly species, suppression only (avoid resistance by	TARGET PEST	<u> </u>
cabbage looper cutworm species green cloverworm imported cabbageworm sailtmarsh caterpillar  aphid species, suppression only (avoid resistance by following directions under "resistance management") armyworm beet armyworm, first and second instar only (avoid resistance by following directions under "resistance management") corn earworm diamondback moth (avoid resistance by following directions under "resistance management") European corn borer fall armyworm, first and second instar only flea beetle species grasshopper species Japanese beetle (adult) leafhopper species including lygus species including lygus species (avoid resistance by following directions under "resistance management") southern armyworm spider mite species, suppression only stink bug species tobacco budworm (avoid resistance by following directions under "resistance management") vegetable weevil (adult) whitefly species, suppression only (avoid resistance by	alfalfa looper	0.96 – 1.6
cutworm species green cloverworm imported cabbageworm saltmarsh caterpillar  aphid species, suppression only (avoid resistance by following directions under "resistance management") armyworm beet armyworm, first and second instar only (avoid resistance by following directions under "resistance management") corn earworm diamondback moth (avoid resistance by following directions under "resistance management") European corn borer fall armyworm, first and second instar only flea beetle species grasshopper species Japanese beetle (adult) leafhopper species meadow spittlebug plant bug species including lygus species (avoid resistance by following directions under "resistance management") southern armyworm spider mite species, suppression only stink bug species tobacco budworm (avoid resistance by following directions under "resistance management") vegetable weevil (adult) whitefly species, suppression only (avoid resistance by		
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	whitefly species, suppression only (avoid resistance by	
- '	following directions under "resistance management")	
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# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For edible podded and succulent shelled legume vegetables, do not apply within 7 days of harvest.

Do not apply within 1 day of harvest.

Do not apply more than 0.3 lb. a.i. (19.2 fl. oz. or 1.2 pts. of product) per acre per season.

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Cition (Baid) and CARE.	<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>
TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species leafminer species (adult)	0.96 – 1.6
onion maggot (adult) seedcorn maggot (adult)	
aphid species, suppression only armyworm species, first and second instar only flower thrips, suppression only (avoid resistance by following directions under "resistance management") onion thrips (avoid resistance by following directions under "resistance management") plant bug species stink bug species	1.28 to 1.92 (Use the higher label rates as thrips population increases and avoid rescue situations.)
tobacco thrips (avoid resistance by following directions under "resistance management")	
western flower thrips, suppression only (avoid resistance by following directions under "resistance management")	

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For thrips control by aerial application, the addition of 1% COC v/v, 1/4% NIS v/v or a silicone adjuvant may enhance the deposition of the spray and increase coverage. Always follow use directions on the adjuvant label.

Do not apply within 14 days of harvest.

Do not apply more than 0.24 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.

# **PEANUTS**

· LANGIO	
TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species	0.96 – 1.6
green cloverworm	
potato leafhopper	
rednecked peanut worm	
threecornered alfalfa hopper	
velvetbean caterpillar	•
bean leaf beetle	1.28 to 1.92
corn earworm	·
fall armyworm - use the higher rate for large larvae.	
grasshopper species	
southern corn rootworm (adult)	
stink bug species	
tobacco thrips	
vegetable weevil	
whitefringed beetle (adult)	

aphid species, suppression only	1.92
beet armyworm, suppression only (avoid resistance by	
following directions under "resistance management")	
lesser cornstalk borer, suppression only	· •
soybean looper, suppression only (avoid resistance by	
following directions under "resistance management")	
spider mite species, suppression only	

## NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

For thrips control by aerial application, the addition of 1% COC v/v, 1/4% NIS v/v or a silicone adjuvant may enhance the deposition of the spray and increase coverage. Always follow use directions on the adjuvant label.

Do not apply within 14 days of harvest.

Do not apply more than 0.24 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.

POME FRUITS(Apples, crabapples, Loquat, Mayhaw, Oriental Pears, Pears, Quince

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
apple aphid	1.28 to 2.56
apple maggot (adult)	·
cherry fruit fly species (adult)	
codling moth	
green fruitworm	
Japanese beetle	
leafhopper species	
leafroller species lesser appleworm	
omnivorous leafroller	
orange tortrix	· .
oriental fruit moth	
pear psylla, suppression only	
pear sawfly	·
periodical cicada	
plant bug species	·
plum curculio	
rosy apple aphid	
San José scale (fruit infestations only)	
spirea aphid, suppression only	
stink bug species	
tent caterpillar species tentiform leaf miner species	•
tree borer species	
tufted apple budworm	
webworm species	

## NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 5 gals. of water per acre, or more if required to obtain complete coverage.

Do not apply within 21 days of harvest.

Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. or 0.80 pts. of product) per acre per year.

**Do not** apply more than 0.16 lb. a.i. (10.24 fl. oz. or 0.64 pts. of product) per acre per year post bloom.

STONE FRUITS (Apricots, Chickasaw Plums, Damson Plums, Japanese Plums, Nectarines, Peaches, Plums, Plumcots, Prunes, Sweet and Sour (Tart) Cherries)

	RATE (FL. OZ. Lambda 25 CS per acre)
American plum borer apple maggot (adult) black cherry aphid cherry fruit fly species (adult)	1.28 to 2.56
codling moth green fruitworm Japanese beetle June beetle leafhopper species leafroller species oriental fruit moth	•
peach twig borer peachtree borer species pear sawfly periodical cicada plant bug species plum curculio rose chafer bug species tent caterpillar species	

### NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 5 gals. of water per acre, or more if required to obtain complete coverage.

Do not apply within 14 days of harvest.

Do not apply more than 0.2 lb. a.i. (12.8 fl. oz. or 0.80 pts. of product) per acre per year. Do not apply more than 0.16 lb. a.i. (10.24 fl. oz. or 0.64 pts. of product) per acre per year post bloom.

# **SUGARCANE**

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
Mexican rice borer, before the larvae bore into the stalk pygmy mole cricket rice stalk borer, before the larvae bore into the stalk sugarcane aphid (avoid resistance by following directions under "resistance management") sugarcane beetle (adult), suppression only of aboveground, active beetles sugarcane borer, before larvae bore into the stalk West Indian cranefly yellow sugarcane aphid (avoid resistance by following directions under "resistance management")	1.6 to 2.56
I	

# NOTES:

Inspect crop by scouting at intervals of 7 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre. **Do not** apply within 21 days of harvest.

Do not apply more than 0.16 lb. a.i. (10.24 fl. oz. or 0.64 pt. of product) per acre per season.

# **SUNFLOWER**

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species sunflower beetle	0.96 to 1.6
banded sunflower moth fall armyworm - use the high rate for large larvae grasshopper species head-clipper weevil (adult) Japanese beetle (adult) leafhopper species meadow spittlebug painted lady (thistle) caterpillar seed weevil (adult) spotted cabbage looper stem weevil (adult) stink bug species sunflower maggot (adult) sunflower moth woollybear caterpillar	1.28 to 1.92
beet armyworm, suppression only (avoid resistance by following directions under "resistance management") spider mite species, suppression only	1.92

# NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Do not apply within 45 days of harvest.

Do not apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season.

**Do not** apply more than 0.09 lb. a.i. (5.76 fl. oz. or 0.36 pts. of product) per acre per season after bloom initiation.

Do not apply as an ultra-low volume (ULV) spray.

## **TOBACCO**

	<u> </u>
TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
armyworm species, first and second instar only	0.96 - 1.92
blister beetle species	
cabbage looper	
corn earworm	
cucumber beetle species (adult)	•
cutworm species	,
grasshopper species	
Japanese beetle (adult)	
katydid species	
plant bug species (avoid resistance by following directions	
under "resistance management")	
potato tuberworm	
salt marsh caterpillar	1
stinkbug species	
tobacco aphid species, suppression only (avoid resistance	
by following directions under "resistance management")	
tobacco budworm (avoid resistance by following directions	
under "resistance management")	
tobacco flea beetle (adult)	
tobacco hornworm	
tobacco thrips species, suppression only	
tomato hornworm	
tree cricket species	· ·
vegetable weevil (adult)	
webworm species	
NOTES:	

### NOTES

Inspect crop by scouting at intervals of 7 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre.

Do not apply within 40 days of harvest.

Do not apply more than 0.09 lb. a.i. (5.76 fl. oz. or 0.36 pts. of product) per acre per year.

TREE NUTS (Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Chinquapins, Filberts (Hazelnuts), Hickory Nuts, Macadamia Nuts, Pistachios, Black Walnuts, English (Persian) Walnuts, Pecans

TARGET PEST (not including pecans)	RATE (FL. OZ. Lambda 25 CS per acre)
ants beech nut chinch bug Brazil nut codling moth butternut filbertworm cashew leaffooted bug chestnut leafroller species chinquapin navel orangeworm filbert (hazlenut) peach twig borer hickory nut plant bug species macadamia nut stink bug species (bush nut) walnut aphid pistachio walnut husk fly species walnut, black (adult)	1.28 – 2.56
TARGET PESTS ON PECANS  hickory shuckworm pecan aphid species pecan casebearer species pecan phylloxera species pecan spittlebug pecan weevil stink bug species	1.28 – 2.56

## NOTES:

Inspect crop by scouting at intervals of 5 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 5 gals. of water per acre, or more if required to obtain complete coverage.

**Do not** apply more than 0.16 lb. a.i. (10.24 fl. oz. or 0.64 pts. of product) per acre per year. **Do not** apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per year post bloom.

# TUBEROUS AND CORM VEGETABLES (Potato, Sweet Potato, Yams and Related)

(including: Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem only), Canna (edible), Cassava (bitter and sweet), Chayote (root), Chufa, Dasheen, Ginger, Leren, Potato, Sweet Potato, Tanier,

Turmeric, Yam (bean and true)

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
cutworm species leafhopper species saltmarsh caterpillar sweet potato hornworm woolybear caterpillar species	0.96 to 1.6

aphid species (avoid resistance by following directions	1.28 to 1.92
under "resistance management")	
armyworm species (avoid resistance by following directions	·
under "resistance management")	· ·
blister beetle species	
Colorado potato beetle1	
corn earworm	
cricket species	,
cucumber beetle species (adults)	
European corn borer	
flea beetle species (adults)	,
grasshopper species	
looper species (avoid resistance by following directions	
under "resistance management")	·
lygus bug species (avoid resistance by following directions	
under "resistance management")	
plant bug species	
potato psyllid	
potato tuberworm	9
stink bug species	·
sweet potato leaf beetle (adults)	
sweet potato vine borer	
thrips species excluding western flower thrips (avoid	·
resistance by following directions under "resistance	
management")	
tortoise beetle species	
webworm species	
weevil species (adults)	·
leafminer species, suppression only (avoid resistance by	1.92
following directions under "resistance management")	
spider mite species, suppression only	
whitefly species suppression only (avoid resistance by	,
following directions under "resistance management")	
NOTES	

### NOTES:

Inspect crop by scouting at intervals of 7 or more days. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre. When applying by ground, use a minimum of 10 gallons of dilution per acre.

Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.

Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration.

Do not apply more than 0.12 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season. Do not apply within 7 days of harvest.

# **NON-AGRICULTURAL USES**

Tree Nurseries: Deciduous and Conifer

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
bagworm	1.28 to 2.56
balsam twig aphid	
balsam wooly aphid	·
birch leafminer	
black pine weevil	
elm leaf beetle	
European elm bark beetle	
gypsy moth	
Japanese beetle	
June beetle species	
leaf beetle species	
leafroller species	
May beetle species	·
mealybug species, suppression only	
pales weevil	
pine chafer	
pine colaspis beetle	
pine conelet bug	
pine leaf chermid	
pine needle scale	
pine sawfly species	
pine tip moth species	
pine tortoise scale	
pine weevil species	
poplar aphid species	
sawfly species	
spittlebug species	
spruce budworm	
tent caterpillar species	
tussock moth species	
webworm species	

# NOTES:

Inspect crop by scouting at intervals based on local conditions and history. Apply when insect populations reach locally-determined population that may lead to yield loss.

Apply with ground or air equipment using sufficient water for thorough coverage of foliage. When applying by air, apply a minimum of 2 gals. of water per acre. When applying by ground, use a minimum of 10 gallons of dilution per acre.

Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.

Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration.

Do not apply more than 0.5 lb. a.i. (32 fl. oz. or 2 pints of product) per acre per season.

## **Conifer and Deciduous Seed Orchards**

TARGET PEST	RATE (FL. OZ. Lambda 25 CS per acre)
coneworm species seed bug species thrips species	For high volume sprayers, dilute 2.56 fl. oz. per 100 gals. of water and apply 5-10 gals. of finished spray per tree.
	For low volume sprayers, dilute 10 fl. oz. per 100 gals. of water and apply 100 gals. of finished spray per acre.
	For aerial applications, apply 7.5 fl. oz./A in a minimum of 10 gals. finish spray per acre.
NOTES:  Do not apply more than 0.5 lb.	a.i. (32 fl. oz. or 2 pts. of product) per acre per year.

# NON CROP AREAS (not including public lands)

In non-crop areas adjacent to treated crops, spray according to the use directions indicated for the crop to control insects which may migrate into crops from the non-cropped area. Use the highest rate for dense foliage, high insect pressure, or late growth stages of larvae. Repeat as necessary, but do not exceed maximum rates if spray will also be applied to the crop, and **do not** apply more than 12.8 fl. oz (0.8 pint) of Lambda 25 CS per year.

Do not graze livestock in treated non-crop areas.

# STORAGE AND DISPOSAL

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

**Storage and Spill Procedures:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth. Fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

Container Disposal: Nonrefillable Container. Do not reuse or refill container. Triple Rinse (or equivalent) after emptying container. Offer for recycling if available, or puncture and dispose of in a sanitary land fill or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke. For Containers equal to or less than 5 Gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. For Containers greater than 5 Gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container1/4 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

For Bulk containers: (Refillable Container) Refill this container with pesticides only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

# **WARRANTY STATEMENT**

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