

34704-875

0627-2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 27, 2011

Dr. Premjit Halarnkar
Loveland Products Inc.
P.O. Box 1286
Greeley, CO 80632-1286

**Subject: Amended Reregistration Label for Cypermethrin 2.5 EC
EPA Registration No. 34704-875**

Dear Dr. Halarnkar:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the referenced product in connection with the **CYPERMETHRIN RED**, and have concluded that your submission is acceptable with the following label revision provision(s):

General Comment(s):

Add "RESTRICTED USE PESTICIDE" immediately below the heading "Directions For Use".

Revise the Signal word from CAUTION to **WARNING- Aviso** based on the toxicity profile.

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

Add **INGREDIENT STATEMENT**: "contains petroleum distillate".

Delete "but not limited to" wherever it appears on the label.

First Aid section comment(s):

Under "If Swallowed" as the last bullet add "Do not give anything to an unconscious person.".

The First Aid statements should be place in the following order "If on Skin or Clothing", "If Swallowed", "If in Eyes" and "If Inhaled".

Under "If Inhaled" add

"NOTE TO PHYSICIAN:

Contains petroleum distillate. Vomiting may cause aspiration pneumonia."

Personal Protective Equipment section comment(s):

Add "Pilots must wear:
Long- sleeved shirt and long pants, and
Shoes and socks.

See engineering controls for additional requirements."

Mixers, loaders, applicators and other handlers must wear the following section comment(s):

Replace the section with
Coveralls, worn over short- sleeved shirt and short pants,
Chemical- resistant footwear plus socks, and
Chemical- resistant gloves.

User Safety Recommendations section comment(s):

Add "Discard clothing and other absorbent materials that have
been drenched or heavily contaminated with the product's
concentrate. Do not reuse them."

Hazards to Humans and Domestic Animals section comment(s):

Replace this section with **Warning:** Causes moderate eye
irritation. Do not get on skin or clothing. Harmful if swallowed.
Harmful if absorbed through skin. Avoid contact with eyes.
Harmful if inhaled. Avoid breathing vapor or spray mist. Causes
moderate eye irritation. User should wash hands before eating,
drinking, chewing gum, using tobacco, or using the toilet. Remove
contaminated clothing and wash clothing before reuse.

Physical and Chemical Hazards section comment(s):

Since there are no flammable hazards anticipated for this
product, the Physical and Chemical Hazards heading and statements
currently on the label may be removed.

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

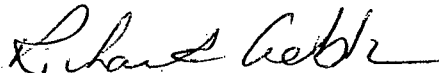
brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to EPA's Office of Enforcement and Compliance Assurance (OECA). As an alternative, you may refer consumers to the company's phone number or e-mail address.

PLEASE NOTE: This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

A copy of your label stamped "Accepted with Comments" is enclosed for your records. Within 10 business days of the date of this letter, you must submit an updated label incorporating all of the above changes. If we do not receive an amended label in response to this letter, this registration will be subject to cancellation in accordance with section 6(e) of FIFRA. Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

If you have any questions about this letter, please contact Linda A. DeLuise at 703.305.5428 or via e-mail at deluise.linda@epa.gov.

Sincerely Yours,



Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7504P)

Enclosures: Label stamped "Accepted with Comments"
Acute Toxicity Review: dated May 5, 2010
Product Chemistry Review: dated July 23, 2010

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RESTRICTED USE PESTICIDE

Due to Toxicity to fish or aquatic invertebrates.

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.

RECEIVED
with COMMENTS
In EPA Letter Dated
JUN 27 2011



CYPERMETHRIN 2.5 EC

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 34704-875

ACTIVE INGREDIENT:	
*Cypermethrin**	30.6%
INERT INGREDIENTS***	69.4%
	100.0%

* (±) a-cyano (3-phenoxyphenyl)methyl (±) *cis/trans* 3-(2,2-dichloroethyl)-2,2-dimethylcyclopropane carboxylate
 ** *Cis/trans* ratio: Max. 55% (±) *cis* and min. 45% (±) *trans*
 ***Contains xylene range aromatic solvents.

Contains 2.5 pounds cypermethrin per gallon.
 U.S. Patent No. 4,024,163

KEEP OUT OF REACH OF CHILDREN CAUTION

See below for additional precautionary information.

FIRST AID

If Inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none"> Immediately call a poison control center or doctor. Do not give any liquid to the person. Do not induce vomiting unless told to do so by the poison control center or doctor.

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

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL:
1-866-944-8565.

Note to Physician: Like the natural pyrethrins, the synthetic derivative is expected to have relatively minor toxicity in humans; in fact, any significant acute toxic effects are more likely from a carrier hydrocarbon solvent. Consequently induction of vomiting may increase the likelihood of the most important toxic potential, chemical pneumonia, and so should either be avoided or done only under medical supervision. Ingestion of a large amount calls for gastric lavage, with care (Trendelenburg position, suction available, cuffed endotracheal tube if patient is unconscious) to avoid intrapulmonary aspiration. A saline cathartic (sodium or magnesium sulfate), 15-30 gm. dissolved in water should be given, as should 15-20 gm. activated charcoal as a slurry in water. Digestible fats, oils or alcohol may increase absorption and so should be avoided. Skin contact (vapor or powder) may be followed by transient tingling or numbness, usually of the face, but this subsides without treatment.

EPA REG. NO. 34704-875
 EPA EST. NO. 279-FL-1
 NET CONTENTS 1 GAL. (3.78 L)

IHT

EXP 11/09 RED

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin, inhaled or swallowed. Causes eye irritation. Avoid breathing vapor or spray mist. Avoid contact with skin, may cause sensitization reaction in some individuals. Avoid contact with eyes or clothing.

Product should be opened and poured in a well ventilated area.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or Viton (14 mils or greater). If you want more options, follow the instructions for category "G or H" on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeve shirt and long pants,
- Shoes and socks and in addition to the above,
- Handlers using hand-held equipment must also wear chemical-resistant gloves.

See engineering controls for additional requirements.

User Safety Requirements

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

Engineering controls

Pilots must use an enclosed cockpit that meet the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)]. Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean 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 wash waters.

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

PHYSICAL/CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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.

CYPERMETHRIN 2.5 EC

EPA REG. NO. 34704-875

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.

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls,
- Shoes plus socks,
- Chemical-resistant gloves made of any waterproof material.

BUFFER ZONES

Vegetative Buffer Strip

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing cypermethrin (Cypermethrin 2.5 EC) onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers:

Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21 pp.
<http://www.in.nrcs.usda.gov/technical/agronomy/newconbuf.pdf>

Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast) Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for ULV Aerial Application Do not apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Buffer Zone for Non-ULV Aerial Application Do not apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

Spray Drift Requirements Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. Do not apply when the wind velocity exceeds 15 mph.

Temperature Inversion

Do not make aerial or ground applications into 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.

Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

Additional Requirements for Ground Applications

Wind speed must be measured adjacent to the application site on the upwind side, immediately prior to application.

For ground boom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.

For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

Additional Requirements for Aerial Applications

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.

Flight speed and nozzle orientation must be considered in determining droplet size. Spray must be released at the lowest height consistent with pest control and flight safety. Do not release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a cross-wind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

CHEMIGATION USE DIRECTIONS

Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. 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.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

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

The irrigation line or water pump motor must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Cypermethrin 2.5 EC should be applied continuously for the duration of the water application. Cypermethrin 2.5 EC should be diluted in sufficient volume to insure accurate application over the area to be treated. When using chemigation, a minimum of 0.5 inch per acre of irrigation water is recommended. Agitation is not required when a suitable diluent is used.

APPLICATION INSTRUCTIONS

Rotational Crops

Rotational crops may not be planted within 30 days after last application. Use low rate under light to moderate infestation. Higher rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray and field scouting.

Tank-Mixture

Cypermethrin 2.5 EC may be applied in tank mixtures with other products approved for use on cotton, brassicas, bulb vegetables, head lettuce, and pecans. Observe all restrictions and precautions which appear on the labels of these products.

For improved control of aphids and mites on cotton, Cypermethrin 2.5 EC may be tank-mixed with Curacron® 8E. The tank-mixture is most effective when pest populations are first observed. Subsequent applications may be needed to maintain control.

CYPERMETHRIN 2.5 EC

EPA REG. NO. 34704-875

Maximum Usage When Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop Within the Same Season.

Do not apply more than the maximum seasonal total for either product when used alone, and do not apply more than the combined maximum seasonal total for both products as outlined in the table below.

Crop	Maximum Seasonal Total for Either Product Used Alone (lbs ai/acre)		Maximum Seasonal Total When Applying Both Products to the Same Crop (lbs ai/acre)	
	Zeta-cypermethrin* Fury® or Mustang® Mustang® Max™**	Cypermethrin**	Zeta-cypermethrin* plus Cypermethrin**	
Cotton	0.3	0.15	0.6	0.6
Head and Stem Brassica	0.3	0.15	0.6	0.6
Leafy Brassica Greens	0.3	0.15	0.4	0.4
Head Lettuce	0.3	0.15	0.6	0.6
Bulb Vegetables	0.25	0.125	0.5	0.5
Pecans	0.3	0.15	0.6	0.6

* Fury or Mustang (1.5 EC or 1.5 EW); Mustang Max (0.8 EC)

** Any cypermethrin product approved for crop use.

Cotton (14 day phi)

Specific Crop Restrictions:

Maximum single application rate of 0.1 lbs a.i./A. The minimum re-treatment interval of 5 days.

Maximum annual application rate of 0.4 lbs. a.i./A/year.

Do not make more than 10 synthetic pyrethroid applications (of one product or combinations of products) to cotton in one growing season.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Preemergent Use: Cutworms	0.025 to 0.10	1.3 to 5	Use Cypermethrin 2.5 EC in the time period from 14 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or air, banded (including T-band) or in-furrow spray using sufficient spray volume to achieve adequate coverage. Reduced volumes of water may be used with specialized equipment. Use a minimum of 1 gallon of water per acre by air. Use the higher rates of Cypermethrin 2.5 EC when incorporating into the soil.
Foliar Use: Cutworms Tobacco Thrips Soybean (banded) Thrips	0.025 to 0.10	1.3 to 5	Cypermethrin 2.5 EC may be applied in water or refined vegetable oil. When water is used, apply a minimum of one gallon of finished spray per acre by air or five gallons of finished spray with ground equipment.
Foliar Use: Boll Weevil Cabbage Looper Cotton Bollworm Cotton Fleahopper Cotton Leaf Perforator European Corn Borer Fall Armyworm Lygus Bugs Other Plant Bugs Pink Bollworm Saltmarsh Caterpillar Tarnished Plant Bug Tobacco Budworm White Flies* Yellow Striped Armyworm	0.04 to 0.10	2 to 5	When applying in water by air, one quart of emulsified oil may be substituted for one quart of water in the finished spray. When using oil, use a minimum of one quart per acre in the finished spray. Cypermethrin 2.5 EC may be injected into overhead sprinkler irrigation water provided 1) an anti-backflow check valve is present between the injection port and the water source, 2) a check valve is present in the line to prevent irrigation water from entering the chemical supply tank and 3) the irrigation injection system has interlocking on-off switches. For boll weevil control, apply Cypermethrin 2.5 EC at a 3 to 4 day interval until pest numbers are reduced to acceptable levels. A maximum of 0.6 lb. active ingredient may be applied per acre per season.
Foliar use: Beet Armyworm**	0.06 to 0.10	3 to 5	Do not graze or feed cotton for forage.

*Aids in control.

**For control of beet armyworms only in the high plains of Texas, Arizona, and California.

Head and Stem Brassica Vegetables including: Broccoli; Chinese Broccoli (gai ion, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo broccoli; Kohlrabi; Cabbage; Chinese Cabbage (napa) (tight-heading varieties only)

(1 day phi)

Specific Crop Restrictions:

Maximum application rate of 0.1 lbs a.i./A.

Minimum re-treatment interval of 7 days.

Maximum seasonal application rate of 0.6 lbs. a.i./A.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Cutworms Corn Earworm Tobacco Budworm Lygus Bugs Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids* Whiteflies*	0.05 to 0.10	2.5 to 5	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Cypermethrin 2.5 EC should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations but never to exceed the maximum allowable rate. Do not make applications less than 7 days apart.
Armyworms Loopers Stinkbugs Crickets Ground Beetles Onion Thrips Wireworm (adults)	0.075 to 0.10	3.75 to 5	A maximum of 0.6 lb. active ingredient may be applied per acre per season. In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.

*aids in control

Leafy Brassica Greens including: Broccoli Raab (rapini) ; Chinese cabbage (bok choy); Chinese Mustard Cabbage (gai choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens.

(1 day phi)

Specific Crop Restrictions:

Maximum application rate of 0.1 lbs a.i./A.

Minimum re-treatment interval of 7 days.

Maximum seasonal application rate of 0.4 lbs a.i./A.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Cutworms Corn Earworm Tobacco Budworm Lygus Bugs Saltmarsh Caterpillar Leafhoppers Flea Beetles Imported Cabbageworm Cucumber Beetles Aphids* Whiteflies*	0.05 to 0.10	2.5 to 5	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Cypermethrin 2.5 EC should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations but never to exceed the maximum allowable rate. Do not make applications less than 7 days apart.
Armyworms Loopers Stinkbugs Crickets Ground Beetles Onion Thrips Wireworm (adults)	0.075 to 0.10	3.75 to 5	A maximum of 0.4 lb active ingredient per acre per season. In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.

*aids in control

CYPERMETHRIN 2.5 EC
EPA REG. NO. 34704-875

Lettuce, Head
(5 day phi)

Specific Crop Restrictions:

Maximum application rate of 0.1 lbs a.i./A.

Minimum re-treatment interval of 7 days.

Maximum seasonal application rate of 0.6 lbs. a.i./A.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Corn Earworm	0.05 to 0.10	2.5 to 5	Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air. Lower rates of Cypermethrin 2.5 EC should be used under light to moderate insect pressure. Higher rates should be used to control heavy to extremely heavy insect populations but never to exceed the maximum allowable rate. A maximum of 0.6 lb. active ingredient may be applied per acre per season. In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required.
Cucumber Beetles			
Cutworms			
Diamondback Moth			
Flea Beetles			
Imported Cabbageworm			
Leafhoppers			
Lygus Bugs			
Saltmarsh Caterpillar			
Tobacco Budworm			
Armyworms			
Crickets			
Loopers			
Onion Thrips			
Stinkbug			

Bulb Vegetables (*Allium* spp.) including: Garlic; Garlic, Great-Headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions.

(5 day PHI)

Specific Crop Restrictions:

Maximum application rate of 0.1 lbs a.i./A.

Minimum re-treatment interval of 7 days.

Maximum seasonal application rate of 0.6 lbs a.i./A.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Onion Thrips	0.08 to 0.10	4 to 5	Apply Cypermethrin 2.5 EC in a minimum of 20 gallons per acre with ground equipment or in a minimum of 3 gallons per acre by aircraft. Begin applications when pests appear. Do not make applications less than 7 days apart. To control Onion Thrips: Use higher rates as population increases but do not exceed the maximum allowable rate and avoid rescue situations. Use of a crop oil concentrate at 16 fl. oz./A is recommended. A maximum of 0.5 lb. active ingredient may be applied per acre per season. Do not graze livestock in treated areas or cut treated crops for feed.
Aphids	0.04 to 0.10	2 to 5	
Armyworms			
Cutworms			
Leafminers			
Onion Maggot			
Adults			
Stink Bugs			

Pecans
(21 day phi)

Specific Crop Restrictions:

Maximum single application rate of 0.1 lbs a.i./A.

Minimum re-treatment interval of 7 days.

Maximum annual application rate of 0.5 lbs a.i./A/year.

PEST	DOSAGE		REMARKS
	LB A/A	FL OZ/A	
Black Pecan Aphid	0.06 to 0.10	3 to 5	Applications at the lower rate should be made when pest populations are low. Rates should be increased as the pest pressure increases. Apply by ground equipment to the point of drip. Use 100 gallons of dilute spray per acre for smaller trees. For larger trees which require higher gallonage to achieve adequate coverage, apply in 200 to 300 gallons of water. In order to calculate the correct number of gallons of water needed to spray one acre of your trees to the point of drip, you may need to conduct a test. If you do not know how to conduct such a test with your equipment, you should request assistance from your equipment dealer. Up to 0.5 lb active ingredient per acre season may be applied prior to shuck split. Do not graze livestock in treated orchards or cut treated cover crops for feed.
Hickory Shuckworm			
Pecan Nut Casebearer			
Pecan Weevil			
Yellow Pecan Aphid			

DEALERS SHOULD SELL IN ORIGINAL PACKAGES ONLY.

STORAGE AND DISPOSAL

Pesticide Storage: Do not store below 10°F, (-12°C).

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. 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 of the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.acrecycle.org.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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CYPERMETHRIN 2.5 EC
EPA REG. NO. 34704-875

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