

34704-912

07/31/2006

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUL 31 2006

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Kelly Herrick
Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632-1286

Subject: Amendment to Update Label

EPA Reg. No. 34704-912
CYFLU
Your Submission Dated April 10, 2006

Dear Ms Herrick.

The amendment referred to above, submitted in connection with registration under Section (3) (c) (7) (b) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. On page 7, under sweet corn, revise "*Maximum Cyflu allowed per day*" to read: "*Maximum Cyflu allowed per 2- day interval*".
2. Delete, throughout the label, the qualifier "*unless accompanied by a supplemental label*" from the statement "*Use not permitted in CA unless accompanied...*" This implies a supplemental label may be available, which is not the case.

If you have any questions regarding this action, please contact Olga Odiott of my team at (703) 308-9369.

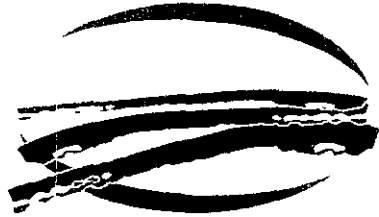
Sincerely,

A handwritten signature in black ink, appearing to read "George J. LaRocca".

George J. LaRocca
Product Manager I3
Insecticide Branch
Registration Division (7505C)

Enclosure

RESTRICTED USE PESTICIDE
 Restricted by 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 registered by the Certified Applicators certification



Cyflu

**ACCEPTED
 with COMMENTS
 In EPA Letter Dated
 JUL 31 2006
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under EPA Reg. No.
 34704-912**

Emulsifiable Pyrethroid Insecticide
**For control of certain insect pests on field, vegetable,
 tree and vine crops.**

ACTIVE INGREDIENT:
 Cyfluthrin
 Cyano(4-fluoro-3-phenoxyphenyl)methyl-3-(2,2-dichloroethenyl)-2,2-dimethyl-cyclopropanecarboxylate 25%
INERT INGREDIENTS 75%
TOTAL 100%

Contains 2 lb Cyfluthrin per gallon
 (This product contains aromatic petroleum distillates)

**KEEP OUT OF REACH OF CHILDREN
 DANGER—PELIGRO**

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

FIRST AID

If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 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"> Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have a 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 1-800-201-7976
Note to Physician: AHTIDP ...
 Only, Puffball, etc. ...
 ...
 ...

EPA REG. NO. 34704 912
EPA EST. NO. 34704-MS-1
NET CONTENTS 1 GAL. (3.78 L)

**PRECAUTIONARY STATEMENTS
 HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. May be fatal if inhaled. Do not breathe vapors or spray mist. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic skin reactions in some individuals.

Do not contaminate feed or food. Keep out of reach of children.

Personal Protective Equipment. Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.
Applicators and other handlers must wear: Long sleeved shirt and long pants, chemical-resistant gloves such as barrier laminate or viton, shoes plus socks, and protective eyewear.

Discard or clean up all spill and contact materials that have been in contact with heavily contaminated with this product concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and washing PPE. If no such instructions for washing, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls Statements
 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:
 - Wear a long-sleeved shirt, long pants, socks, and shoes to avoid using the toilet.
 - Remove all jewelry if pesticide gets near it. 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. Do not apply directly to water bodies where surface water is present or to other areas below the surface high with water. Do not apply when weather conditions favor drift from treated areas. Do not apply from aircraft. Do not apply to areas where aquatic organisms are being introduced into natural water bodies or to areas where they were washed. This pesticide is highly toxic to bees exposed to direct treatment or residues on blooming crops and weeds. Do not apply to bees. Additional information may be obtained by consulting your Cooperative Extension Service.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

Restricted Use Pesticide
 Use only those crops and uses registered for this product. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision.

AGRICULTURAL USE REQUIREMENTS

Use only those crops and uses registered for this product. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision. Do not use in any restricted use area unless you are a certified applicator or under their direct supervision.

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Center-Pivot and Automatic-Move Linear Systems: Infrared-sensitized dosage per acre continuously for one complete revolution (center pivot) or above of the system. The system should be run at maximum speed. It is recommended that no zones in the immediate area of control panels, chemical supply tanks, pumps and system safety devices be plugged to prevent chemical contamination of these areas. The use of END GUNS is NOT recommended. End guns that provide uneven distributions of treated water can result in crop injury, lack of effectiveness, or illegal pesticide residues in or on the crop.

Solid Set and Manually Controlled Linear Systems: Insects should be during the last 30 to 60 minutes of a regular irrigation period or as a separate 30 to 60 minute application not associated with a regular irrigation.

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

Spray Drift Reduction Management

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Buffer Zone Requirements

Ground, Foliar Applications: Do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds. Increase the buffer zone to 450 feet when an ultra low volume (ULV) application is made.

Aerial Applications: Do not apply by air within 150 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds. 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 the wing span or rotor diameter.

Importance of Droplet Size. An important factor influencing drift is droplet size. Small droplets (< 150 to 200 microns) drift to a greater extent than large droplets. Within typical equipment specifications, applicators should be made to deliver the largest droplet spectrum that provides sufficient control and coverage. Formulation 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 possible height consistent with ground pest control and flight safety. Applications more than 10 feet above the crop canopy should be avoided.

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

Wind Speed Restrictions: Drift potential increases as wind speed increases. Under conditions of inversion potential or more than 10 mph. However, many factors, including droplet size, canopy and equipment characteristics, determine drift potential at any given wind speed. Do not apply when wind speeds are greater than 1 mph at downwind and windless conditions. Avoiding applications when wind direction favors the aquatic area can reduce risk of exposure to sensitive aquatic areas.

Restrictions During Temperature Inversions: Do not make ground or aerial applications during temperature inversions. Drift potential is high during temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move upwind. In a temperature inversion, temperature increases are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The inversion may also be associated with other conditions, such as low level clouds, fog or smoke. These products do not penetrate the ground fog. However, if a fog or low cloud is present, the concentration of these products in the air may also be high. For safety, do not apply these products under temperature inversion conditions. The wind condition is generally calm, and the wind may shift from light to light variable and/or light variable with gusts.

Huffoff Management

Control cutback when the crop is in the early stages of growth. At least 20% of the crop should be employed. Control cutback when the crop is in the early stages of growth. Control cutback when the crop is in the early stages of growth. Control cutback when the crop is in the early stages of growth.

FIELD CROPS

Recommended Applications - Cyflu

For all crops, apply specific dosage of Cyflu based on the insect pest being targeted. If the pest has not yet begun to overtop, degree of control may be determined by applying a diagnostic rate. If the pest has not yet begun to overtop, degree of control may be determined by applying a diagnostic rate. If the pest has not yet begun to overtop, degree of control may be determined by applying a diagnostic rate.

Application timing should be based on local economic thresholds. Cyflu may be applied before, during, or after planting. Use the higher rate for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting and may require more frequent application.

Cyflu is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary to optimize performance.

See application recommendations at the beginning of each section: FIELD CROPS-VEGETABLE CROPS; TREE and VINE CROPS.

ALFALFA

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
Alfalfa weevil Cutworm Green cloverworm Meadow spittlebug Potato leafhopper Alfalfa caterpillar Alfalfa plant bug Alfalfa webworm Alfalfa weevil Armyworm (1st and 2nd instar) Aster leafhopper Beet armyworm (1st and 2nd instar) Corn earworm Corn rootworm (adult) Cucumber beetle (adult) Egyptian alfalfa weevil Fall armyworm (1st and 2nd instar) Grape colaspis (adult) Japanese beetle (adult) June beetle (adult) Looper Lycid bug Mexican bean beetle Slim fly Tarnished plant bug Threeseam, near alfalfa, hopper Velvetbean caterpillar Yellow striped armyworm (1st and 2nd instar) Proteinase	0.8-1.6 1.0-2.8	0.0-3.0-0.25 0.025-0.044
Edith leafminer Grasshopper Western yellow-striped armyworm (1st and 2nd instar)	2.0-2.8	0.031-0.044
Pests Suppressed Bait (see label) Crawdad Flycatcher Wormy cutworm	1.8	0.044

Notes: Pre-harvest interval (PHI) of the grazing interval: 7 days. Maximum Cyflu allowed per cubic ft: 3.2 fluid ounces/A (0.050 lbs A/Acre). Maximum Cyflu allowed per acre season: 12.8 fluid ounces/A (0.200 lbs A/Acre). Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application. Minimum dry weight of your crop to be treated: cotton seedweight/acre: 1.0 q/A - annual application.

CORN

Field Corn, Popcorn, Seed Corn (see Sweet Corn recommendations in Vegetable Crops Section)

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
European corn borer Cotton rootworm Fall armyworm (1st and 2nd instar) Corn earworm Cotton rootworm (adult) Cotton rootworm (larva) Cotton rootworm (pupa) Cotton rootworm (egg)	0.8-1.6 1.0-2.8	0.013-0.022 0.024-0.044
European corn borer Cotton rootworm Fall armyworm (1st and 2nd instar) Corn earworm Cotton rootworm (adult) Cotton rootworm (larva) Cotton rootworm (pupa) Cotton rootworm (egg) Cotton rootworm (egg)	2.1-2.8 2.8	0.044-0.050 0.050

Notes: Pre-harvest interval (PHI) for grain: 0 to 21 days; Grain harvest may be delayed after this application. Maximum Cyflu allowed per acre season: 2.8 fluid ounces/A (0.044 lbs A/Acre). Maximum Cyflu allowed per crop season: 11.2 fluid ounces/A (0.175 lbs A/Acre).

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Sorghum cont'd.
Minimum ULV application volume (one refined cotton seed/vegetable oil) 1.0 qt/A - aerial application.
See CHEMIGATION statement in *Application Guidelines* section of this label.
*Application must be made prior to the larva burrow into the plant.

SOYBEAN

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Cutworms Potato leathopper Thrips Green clove-worm Armyworm	0.8 - 1.6	0.013 - 0.025
Bean leaf beetle Bean leaf webber Beet armyworm (1st and 2nd instar) Hester beetle Carrot topper Cotton beetle (adult) Corn earworm Cotton rootworm (adult) Cucumber beetle European corn borer Fall armyworm (1st and 2nd instar) Green stink bug (adult) Japanese beetle (adult) June beetle (adult) Lygus bug Masked chaffer (adult) Mexican bean beetle Sawtooth caterpillar Silver-spotted skipper Southern armyworm (1st and 2nd instar) Stink bugs Tarnished plant bug* Three-cornered alfalfa hopper Tobacco beetle Vespa caterpillar Weevils Winter moth caterpillar Yellow-striped armyworm Grasshoppers	1.6 - 2.0	0.025 - 0.044
Soybean aphid	2.0 - 2.8	0.031 - 0.044
Pests Suppressed		
Lesser cornstalk borer Soybean thrips*	2.6	0.044

Notes: Pre-harvest Interval (PHI) or feeding of dry vines: 45 days. Green foliage may be fed 15 days after last application.
Maximum Cyfluthrin allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs AI/Acre)
Maximum Cyfluthrin allowed per crop season: 11.2 fluid ounces/A (0.175 lbs AI/Acre)
Maximum number of applications per season: 4
Minimum application volume (water): 10.0 GPA - ground, 2.0 GPA - aerial application
Minimum ULV application volume (one refined cotton seed/vegetable oil): 1.0 qt/A - aerial application
See CHEMIGATION statement in *Application Guidelines* section of this label.
*See INSECT RESISTANCE statement elsewhere on this label.

SUGARCANE

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Sugarcane borer*	2.0	0.031
Rice stalk borer	2.6	0.044

Notes: Pre-harvest Interval (PHI), 15 days
Minimum application volume (water) 2.0 fluid ounces/A (0.044 lbs AI/Acre).
Maximum Cyfluthrin allowed per crop season: 16.8 fluid ounces/A (0.261 lbs AI/Acre)
Maximum number of applications: 6
Minimum application volume (water): 20.0 GPA - ground, 2.0 GPA aerial application
Minimum ULV application volume (one refined cotton seed/vegetable oil): 1.0 qt/A - aerial application
Do not apply when under conditions that favor control.
Do not apply in the rain.
*Application must be made prior to the larva burrow into the plant.

SUNFLOWER

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Cutworms	0.8 - 1.6	0.013 - 0.025
Sunflower beetle Sunflower stem weevil (adult)	1.6 - 2.4	0.025 - 0.038
Banded sunflower moth Grasshoppers Stink bugs Sunflower bud moth Sunflower headclipping weevil Sunflower midge Sunflower moth Sunflower seed weevil	2.0 - 2.8	0.031 - 0.044

Sunflower cont'd.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Phytophagous beetle	2.6	0.044

Notes: Pre-harvest Interval (PHI) and Pre-grazing or foraging interval: 30 days.
Maximum Cyfluthrin allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs AI/Acre)
Maximum Cyfluthrin allowed per crop season: 8.4 fluid ounces/A (0.131 lbs AI/Acre)
Maximum number of applications: 6
Minimum application volume (water): 10.0 GPA - ground; 2.0 - aerial application (DO NOT apply ULV)
See CHEMIGATION statement in *Application Guidelines* section of this label.

WHEAT**

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Army cutworm Cereal leaf beetle Cutworms Armyworm Bud cherry cutworm European corn borer Fall armyworm (1st and 2nd instar) Hester beetle Carrot topper Cotton beetle Cucumber beetle European corn borer Husker wheat borer Lobster armyworm (1st and 2nd instar) Stink bug Yellow-striped armyworm Grasshopper	1.0 - 1.8	0.016 - 0.028
	1.8 - 2.4	0.028 - 0.038
	2.4	0.039

Notes: Pre-harvest Interval: 7 days. Pre-harvest Interval (PHI): 30 days
Maximum Cyfluthrin allowed per 7-day interval: 2.4 fluid ounces/A (0.038 lbs AI/Acre)
Maximum number of applications: 2
Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application
Minimum ULV application volume (one refined cotton seed/vegetable oil): 1.0 qt/A - aerial application
See CHEMIGATION statement in *Application Guidelines* section of this label.
**In California, applications must be made prior to insect-damaging the plants. Use the higher rate for increased water volume for applications occurring after plant emergence. Use the lower rate following irrigation in order to receive better coverage. Once the plants are established, growth stage reaches heading, control may be limited to suppression only.
***Use not permitted in CA unless accompanied by supplemental label.**

VEGETABLE CROPS

Recommended Applications - Cyfluthrin
For all crops, apply specific dosage of Cyfluthrin at early threshold for target pest, as population begins to develop. Degree of control or suppression of additional later-emerging pests will be determined in part by the stage of pest development at application and infestation size of these pests.
Application timing should be based on the economic threshold. Cyfluthrin may be applied before, during, or after planting. Use the higher rate for moderate to heavy insect populations. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting and may require more frequent application.

Cyfluthrin is an Emulsifiable Concentrate formulation and is active by contact and ingestion. Thorough coverage is necessary for optimum performance.

See application recommendations at the beginning of each section: FIELD CROPS, VEGETABLE CROPS, TREE AND VINE CROPS.

COLE CROPS

Includes all members of Crop Subgroup 5A such as, but not limited to: Broccoli, Chinese (gai lan) broccoli, Brussels sprouts, Cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Cauliflower, Cavalo broccoli, Kohlrabi, Mustard greens and Turnip greens.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Cutworms Earl leathopper Thrips Aphid Cabbage looper Cabbage webworm Imported cabbageworm Southern cabbageworm Armyworm	0.8 - 1.6	0.013 - 0.025
Beet armyworm (1st and 2nd instar) Cabbage flea beetle Corn earworm Diamondback moth (larva)* Fall armyworm (1st and 2nd instar) Grasshoppers Japanese beetle (adult) Lygus bug Meadow spittlebug Southern armyworm (1st and 2nd instar) Stink bugs Tarnished plant bug*	1.6 - 2.4	0.025 - 0.038
	2.4 - 3.2	0.038 - 0.050

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Cole Crops cont'd -

Includes all members of Crop Subgroup 5A such as, but not limited to: Broccoli, Chinese (gai lan) broccoli, Brussels sprouts, Cabbage, Chinese (napa) cabbage, Chinese mustard (gai choy) cabbage, Cauliflower, Cavalo broccoli, Kohlrabi, Mustard greens and Turnip Greens.

Pests Suppressed	Rate fluid ounces/Acre	Rate lbs A/Acre
Vegetable weevil (adult)	2.4 - 3.2	0.038 - 0.050
Whitefly (adult)	3.2	0.050

Notes: Pre-harvest Interval (PHI): 0 day
Maximum Cyfluthrin allowed per 7-day interval: 3.2 fluid ounces/A (0.050 lb A/Acre).

Maximum Cyfluthrin allowed per crop season: 12.8 fluid ounces/A (0.200 lbs A/Acre).

Maximum number of applications: 4
Minimum application volume (water): 10 GPA - ground; 5 GPA - aerial application.

During potential injury to bees, do not apply to cole crops grown for seed.
See the MITIGATION statement in Application Guidelines section of this label.
*See INSECT RESISTANCE statement elsewhere on this label.

CUCURBITS (except crops grown for seed)**

Includes all members of Crop Group 9 such as, but not limited to: Balsam apple, Balsam pear, Bitter melon, Chayote, Chinese cucumber, Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourd (includes: hyotan, cucuzza, hunchmia and Chinese okra), Muskmelon (includes: cantaloupe, true cantaloupe, casaba, Crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon and snake melon), Pumpkin, Summer squash (includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, and zucchini), Watermelon, Winter squash (includes: butternut squash, calabaza, Hubbard squash, acorn squash and spaghetti squash).

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
Catworms	0.8-1.6	0.013-0.025
Colorado potato beetle	1.6-2.4	0.025-0.038
Cucumber beetle	2.4-2.8	0.038-0.044
Whitefly (adult)	3.2	0.050

Notes: Pre-harvest Interval (PHI): 0 day
Maximum Cyfluthrin allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lb A/Acre).

Maximum Cyfluthrin allowed per crop season: 11.2 fluid ounces/A (0.175 lbs A/Acre).

Maximum number of applications: 4
Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application.

During potential injury to bees, do not apply to cucurbit crops grown for seed.
See the MITIGATION statement in Application Guidelines section of this label.
*See INSECT RESISTANCE statement elsewhere on this label.

**Use not permitted in CA unless accompanied by supplemental label.

FRUITING VEGETABLES

Includes all members of Crop Group 8 such as, but not limited to: Eggplant**, Groundcherry**, Pepino**, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimiento, sweet pepper), Tomatillo**, and Tomato.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
Catworms	0.8-1.6	0.013-0.025
Colorado potato beetle	1.6-2.4	0.025-0.038
Cucumber beetle	2.4-2.8	0.038-0.044
Whitefly (adult)	3.2	0.050

Fruiting Vegetables cont'd:

Includes all members of Crop Group 8 such as, but not limited to: Eggplant**, Groundcherry**, Pepino**, Pepper (includes: bell pepper, chili pepper, cooking pepper, pimiento, sweet pepper), Tomatillo**, and Tomato.

Notes: Pre-harvest Interval (PHI): 0 days
PHI for other fruiting vegetable crops: 7 days

Maximum Cyfluthrin allowed per 7-day interval: 2.8 fluid ounces/A (0.044 lbs A/Acre).

Maximum Cyfluthrin allowed per crop season: 16.8 fluid ounces/A (0.263 lbs A/Acre).

Maximum number of applications: 6

Minimum application volume (water): 10.0 GPA - ground; 2.0 GPA - aerial application.

During potential injury to bees, do not apply to fruiting vegetable crops grown for seed.
See the MITIGATION statement in Application Guidelines section of this label.

**Use not permitted in CA unless accompanied by supplemental label.

LEAFY VEGETABLES

Includes all members of Crop Group 4 such as, but not limited to: Amaranth (Chinese spinach**), Arugula (rocket**), Cardoon**, Celery**, Chinese celery**, Celtuce**, Chervil**, Chrysanthemum (edible-leaved and garland**), Corn salad**, Cress (garden and upland**), Dandelion**, Dock (sorrel**), Endive (escarole**), Florence fennel**, Lettuce (head and leaf), New Zealand spinach**, Orach**, Parsley**, Purslane (garden and winter**), Radicchio (red chicory**), Rhubarb**, Spinach**, Swiss chard**, Vine spinach**.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
Catworms	0.8-1.6	0.013-0.025
Colorado potato beetle	1.6-2.4	0.025-0.038
Cucumber beetle	2.4-3.2	0.038-0.050
Whitefly (adult)	3.2	0.050

Notes: Pre-harvest Interval (PHI): 0 day
Maximum Cyfluthrin allowed per 7-day interval: 3.2 fluid ounces/A (0.050 lbs A/Acre).

Maximum Cyfluthrin allowed per crop season: 12.8 fluid ounces/A (0.200 lbs A/Acre).

Maximum number of applications: 4
Minimum application volume (water): 10 GPA - ground; 5 GPA - aerial application.

During potential injury to bees, do not apply to leafy crops grown for seed.
See the MITIGATION statement in Application Guidelines section of this label.
*See INSECT RESISTANCE statement elsewhere on this label.

**Use not permitted in CA unless accompanied by supplemental label.

BEAN AND PEA, DRY

Includes all members of Crop Subgroup 6C such as, but not limited to: Adzuki bean**, Blackeye pea**, Broad bean**, Catjang**, Chickpea, Cowpea**, Crowder pea**, Dwarf pea**, Edible-pod pea**, English pea**, Field bean**, Field pea**, Garbanzo bean, Garden pea**, Green pea**, Guia**, Kidney bean**, Lablab bean**, Lentil (hard bean**), Lupin (green, sweet, white and white sweet)**, Mung bean**, Mung bean**, Navy bean**, Pigeon pea**, Pinto bean**, Rice bean**, Soybean**, Soybean**, Soybean**, Soybean**.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs A/Acre
Catworms	0.8-1.6	0.013-0.025
Colorado potato beetle	1.6-2.4	0.025-0.038
Cucumber beetle	2.4-3.2	0.038-0.050
Whitefly (adult)	3.2	0.050

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Cyfluthrin is an Emulsifiable Concentrate (EC) formulation and is active by contact and ingestion. Thorough coverage of foliage and fruit is necessary for optimum performance.

For all crops, apply specific dosage of Cyfluthrin at early threshold for target pests, as population begins to develop. Degree of control or suppression of additional labeled pests will be determined, in part, by the stage of pest development at application and infestation level of those pests.

Application timing should be based on local economic thresholds. Use the higher rate for moderate to heavy insect pressure. Lower rates are generally adequate for low to moderate insect pressure but require careful scouting, and may require more frequent applications.

See application recommendations at the beginning of each section: **FIELD CROPS; VEGETABLE CROPS; TREE and VINE CROPS.**

CITRUS (California and Arizona, Only)
Includes all members of Crop Group 10 such as, but not limited to: Calamondin, Citrus citron, Citrus hybrids (includes chironja, tangelo, and tanger), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sweet and sour), Plumelo, Satsuma mandarin, Tangelo, White sapota, and other cultivars and/or hybrids of these.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Glassywinged sharpshooter	1.6 - 3.2	0.025-0.050
Foliar feeding cutworms	2.4 - 3.2	0.035-0.050
Fulcrum beetle (larvae and adults on foliage)		
Crasshop pers		
Root-weevil complex (larvae and adults on foliage)		
Citrus thrips	6.4	0.10
Katydid		

Notes: Pre-Harvest Interval (PHI): 0 day
Maximum Cyfluthrin allowed per 14-day interval: 6.4 fluid ounces/A (0.10 lbs. AI/Acre)
Maximum Cyfluthrin allowed per crop season: 6.4 fluid ounces/A (0.10 lbs. AI/Acre)
Maximum number of applications: 4 (at low rate)
Minimum application volume (water): 25 GPA - ground, 25 GPA - aerial application
Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip

GRAPES**
Includes: Table grape, Raisin, Wine and Muscadine grape

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Glassywinged sharpshooter	1.6 - 3.2	0.025-0.050
Grape leaf skeletonizer		
Western grape skeletonizer		
Climbing cutworm	2.4 - 3.2	0.035-0.050
Grape berry moth		
Grape bud beetle		
Grape cane gallmaker (adult)		
Grape flea beetle		
Grape leafhopper		
Grape leafroller		
Grape mealybug (crawlers)		
Omnivorous leafroller		
Orange tortix		
Thrips		
Yucca scale leafhopper		

Notes: Pre-Harvest Interval (PHI): 3 days
Maximum Cyfluthrin allowed per 14-day interval: 3.2 fluid ounces/A (0.050 lbs. AI/Acre)
Maximum Cyfluthrin allowed per crop season: 12.8 fluid ounces/A (0.200 lbs. AI/Acre)
Maximum number of applications: 4
Minimum application volume (water): 50 GPA - ground, 25 GPA - aerial application
Maximum use rate is based on canopy size requiring 250 gallons per acre, if sprayed to drip
** Use not permitted in CA unless accompanied by supplemental label.

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Hop aphid	3.2	0.040
Hop flea beetle		
Hop looper		
Hop plant bug		

Notes: Pre-Harvest Interval (PHI): 7 days
Maximum Cyfluthrin allowed per 14-day interval: 3.2 fluid ounces/A (0.050 lbs. AI/Acre)
Maximum Cyfluthrin allowed per crop season: 16.0 fluid ounces/A (0.250 lbs. AI/Acre)
Maximum number of applications: 5
Minimum application volume (water): 25 GPA - ground, 25 GPA - aerial application

POWDER FRUIT**
Includes all members of Crop Group 11 such as, but not limited to: Apple, Crabapple, Loquat, Mayhaw, Pear, Oriental pear, Quince

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Green fruitworm	1.4-2.0	0.022-0.031
Potato leafhopper		
White apple leafhopper		
Codling moth	2.0-2.4	0.031-0.038
Oriental fruit moth		
Spotted leafminer leafminer		
Stink bug		
Tarnished plant bug		
Western longhorn leafminer		
Apple leafroller	2.4-2.8	0.035-0.044
Apple maggot		
Fruit moth		
European apple sawfly		
Lesser appleworm		
Obliquebanded leafroller		
Pandemic leafroller		
Pear sawfly (larvae - pear slug)		
Periodical cicada		
Plum curculio		
Redbanded leafroller		
San Jose scale (crawlers)		
Tufted apple bud moth		
Vanated leafroller		

Notes: Pre-Harvest Interval (PHI): 7 days
Maximum Cyfluthrin allowed per 14-day interval: 2.8 fluid ounces/A (0.044 lbs. AI/Acre)
Maximum Cyfluthrin allowed per crop season: 2.8 fluid ounces/A (0.044 lbs. AI/Acre)
Maximum number of applications: 2 (at low rate)
Minimum application volume (water): 100 GPA - ground application, 25 GPA - aerial application
Maximum use rate is based on canopy size requiring 400 gallons per acre, if sprayed to drip
** Use not permitted in CA unless accompanied by supplemental label.

STONE FRUIT**
Includes: all members of Crop Group 12 such as, but not limited to: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum (includes Chickasaw plum, Damson plum, and Japanese plum), Plumcot, Prune

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Green fruitworm	1.4-2.0	0.022-0.031
Lesser peach tree borer		
White apple leafhopper		
Codling moth	2.0-2.4	0.031-0.038
Lygus bug		
Oriental fruit moth		
Stink bug		
Tarnished plant bug		
American plum borer	2.4-2.8	0.035-0.044
Black cherry aphid		
Cherry fruit fly		
C. (Cherry) leafminer		
C. (Cherry) leafminer		
Omnivorous leafroller		
Peach twig borer		
Peach tree borer		
Plum curculio		
Redbanded leafroller		
Western cherry fruit fly		

Notes: Pre-Harvest Interval (PHI): 7 days
Maximum Cyfluthrin allowed per 14-day interval: 2.8 fluid ounces/A (0.044 lbs. AI/Acre)
Maximum Cyfluthrin allowed per crop season: 5.6 fluid ounces/A (0.088 lbs. AI/Acre)
Maximum number of applications: 4 (at low rate)
Minimum application volume (water): 50 GPA - ground application, 25 GPA - aerial application
Maximum use rate is based on canopy size requiring 400 gallons per acre, if sprayed to drip
** Use not permitted in CA unless accompanied by supplemental label.

TREE NUT CROPS**
Includes all members of Crop Group 14 such as, but not limited to: Almond, Beechnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)

Pests Controlled	Rate fluid ounces/Acre	Rate lbs. AI/Acre
Black leafhopper	1.4-2.0	0.022-0.031
White apple leafhopper		
White leafhopper		
Codling moth	2.0-2.4	0.031-0.038
Canarian sawfly		
Large worm		
Leafhopper		
Navel orangeworm		
Pecan nut casebearer		
Pecan woodvil		
Stink bug		
Tarnished plant bug		
Twined spotted bug		

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TREE NUT CROPS cont'd.**

Includes all members of Crop Group 14 such as, but not limited to, Almond, Boschnut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachio, Walnut (black and English)

Pests Controlled	Rate fluid ounces/Acre	Rate lbs AI/Acre
Hickory barkworm	2.0-2.8	0.044-0.044
Obliquebanded leafroller		
Peach twig borer		
Walnut leaf beetle		

Notes: Pre-Harvest Interval (PHI) 14 days
Maximum Cyflu allowed per 14 day interval 2.8 fluid ounces/A (0.044 lbs AI/Acre)

Maximum Cyflu allowed per crop season 2.8 fluid ounces/A (0.044 lbs AI/Acre)

Maximum number of applications 2 (at low rate)

Minimum application volume (water) 100 GPA - ground application, 25 GPA - aerial application.

Maximum use rate is based on canopy size requiring 500 gallons per acre, if sprayed to drip

** Use not permitted in CA unless accompanied by supplemental label.

RATE CONVERSION CHART

FLUID OUNCES PER ACRE	LBS AI PER ACRE	ACHE PER GALLON
0.8	0.013	100
1.0	0.016	128
1.2	0.019	167
1.4	0.022	91
1.6	0.025	80
1.8	0.028	71
2.0	0.031	64
2.2	0.034	56
2.4	0.038	53
2.6	0.041	49
2.8	0.044	46
3.0	0.047	43
3.2	0.050	40
6.4	0.100	20

RATE CONVERSION CHART FOR TREE AND VINE APPLICATIONS

FLUID OUNCES PER ACRE	FLUID OUNCES PER 100 GAL OF WATER WHEN USING SPRAY VOLUME OF:						
	25 GPA	50 GPA	100 GPA	150 GPA	200 GPA	250 GPA	500 GPA
1.4	5.6	2.8	1.4	0.9	0.7	0.56	0.28
1.6	6.4	3.2	1.6	1.1	0.8	0.64	0.32
2.0	8.0	4.0	2.0	1.3	1.0	0.8	0.4
2.4	9.6	4.8	2.4	1.6	1.2	1.0	0.5
2.8	11.2	5.6	2.8	1.9	1.4	1.1	0.6
3.2	12.8	6.4	3.2	2.1	1.6	1.2	0.64
3.6	14.4	7.2	3.6	2.4	1.8	1.4	0.7

CROP ROTATION STATEMENT

Treated areas may be replanted with any crop as soon as practical after last application.

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