

70051-27

04-06-2010

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

APR 06 2010

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Christine A. Dively
Director of Regulatory Affairs
Certis USA, LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046

RE: Product Name: Azatin® XL
EPA Reg. No: 70051-27
Application for Label Notification Dated March 22, 2010 to update the storage
and disposal statement per PR Notice 2007-4.

Dear Ms.Dively:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticide Registration (PR) Notice 98-10 dated above. A preliminary screen of this request has been conducted for its applicability under PR Notice 98-10 and it has been determined that the action(s) requested falls within the scope of PR Notice 98-10. Our records have been duly noted, and the label submitted with this application has been stamped "Notification Approved" and will be placed accordingly in our records.

If you have any questions concerning this action, please feel free to contact Ms. Menyon Adams at (703) 347-8496 or email at adams.menyon@epa.gov.

Sincerely,

Linda Hollis

Linda Hollis, Chief
Biochemical Pesticides Branch
Biopesticides and Pollution Prevention
Division (7511P)

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0080



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 70051-27	2. EPA Product Manager Biochemical Pesticides Branch	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Azatin XL	PM# 91	
5. Name and Address of Applicant (Include ZIP Code) Certis U.S.A., L.L.C. 9145 Guilford Road, Suite 175 Columbia, MD 21046 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: <input checked="" type="checkbox"/> EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below

Notification Accepted

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

see attached

Date: APR 06 2010

Reviewer: *Mengy Adams*

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 Quart		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Christine Dively	Title Director, Reg. Affairs	Telephone No. (Include Area Code) 301-483-3806
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Christine A. Dively</i>	3. Title Director, Reg. Affairs	
4. Typed Name Christine Dively	5. Date <i>March 27 2010</i>	

Notification Per PR Notice 2007-4

This Notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR section 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18U.S.C. Sec. 1001 to willfully make any false statement To EPA. I further understand that if the amended label is not consistent with the requirements of section 156.10, 156.140, 156,144, 156.146, and 156.156, this product may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

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CERTIS

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Certis USA
9145 Guilford Road
Suite 175
Columbia, MD 21046

(301) 604-7340

FAX: 301-604-7015

www.certisusa.com

March 18, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
2777 South Crystal Drive
Arlington, VA 22202-4501

Re: Certis U.S.A., L.L.C.

Notification of label change per PR Notice 2007-4

Product Name: Azatin XL

EPA Reg. N.: 70051-27

Certis U.S.A, L.L.C. respectfully submits the following change to the label for Azatin XL (EPA Reg. No. 70051-27) to comply with the requirements of PR Notice 2007-4:

Container reuse and residue removal statements were added to the Storage and Disposal section of the label.

No other changes were made to the label.

Enclosed in this submission are the following:

- Application for Registration – EPA Form 8570-1
- A copy of the label with the changes highlighted
- A clean copy of the label with no highlighting

Please do not hesitate to contact me if you have any questions about this submission. I can be contacted by telephone at 301-483-3806 or by email at cdively@certisusa.com.

Respectfully,



Christine A. Dively
Director of Regulatory Affairs

Azatin[®]XL

INSECT GROWTH REGULATOR

For indoor and outdoor use on Ornamentals, Turf,
Agronomic and Horticultural Crops.

ACTIVE INGREDIENT:

Azadirachtin*	3.0%
OTHER INGREDIENTS	97.0%
TOTAL	100.0%

*Contains 0.265 pounds (120 grams) of azadirachtin per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net Contents: 1 Quart

EPA Reg. No. 70051-27
EPA Est. No. 44616-MO-01
Lot No.:

Manufactured by
Certis USA, L.L.C.
9145 Guilford Road, Suite 175
Columbia, MD 21046

CERTIS

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical resistant gloves such as barrier laminate or Viton (> 14 ml)
- shoes plus socks, and
- protective eye wear.

Follow the 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.

FIRST AID

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person.

If inhaled: 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.

If in eyes: 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 on skin or clothing: 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Hot Line Number: 1-800-255-3924.

USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. For Terrestrial Uses: Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

PHYSICAL OR CHEMICAL HAZARDS

Combustible: 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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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.

(continued next page)

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AGRICULTURAL USE REQUIREMENTS (continued)

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

For early entry into 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, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinylchloride (PVC) or Viton.
- Shoes plus socks.
- Protective Eyewear

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests or greenhouses. For other uses including golf courses, and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

PESTS CONTROLLED BY AZATIN®-XL

Ants	Beetles, Grubs, and Weevils, such as:
Argentine Ant	Alfalfa Weevil
Aphids:	Banded Cucumber Weevil
Alfalfa Aphid	Bean Leaf Weevil
Apple Aphid	Bean Weevil
Bean Aphid	Billbugs
Cabbage Aphid	Black Vine Weevil
Cooly Spruce Aphid	Blister Beetle
Corn Root Aphid	Bluegrass Weevil
Cotton Aphid	Cigarette Beetle
Cow pea Aphid	Cowpea Beetle
Eastern Spruce Gall Aphid	Colorado Potato Beetle
Grapevine Aphid	Cucurbit Beetle
Green Peach Aphid	Douglas Fir Beetle
Hickory Leafstem Gall Aphid	Dusky Sap Beetle
Hop Aphid	Elm Bark Beetle
Melon Aphid	Elm Leaf Beetle
Pea Aphid	Flea Beetle
Pine bark Aphid	Grape Phylloxera
Potato Aphid	Green June Beetle
Red Aphid	Ips Bark Beetle
Rose Aphid	Japanese Beetle
Russian Wheat Aphid	Japanese Weevil
Spruce Gall Aphid	June Beetle
Strawberry Aphid	May Beetle
Tobacco Aphid	Mexican Bean Beetle
White Root Aphid	Mexican Bean Weevil
Woolly Apple Aphid	Mountain Pine Beetle
Woolly Hemlock Aphid	Pales Weevil
Yellow Pecan Aphid	Pine Bark Weevil
Amyworms, such as:	Pine Root Collar Weevil
Beet Armyworm	Pecan Weevil
Fall Armyworm	Plum Curculio
Lawn Armyworm	Rose Chafer
Southern Armyworm	Southern Pine Beetle
Yellow Striped Armyworm	Southern Corn Rootworm
Bagworms	Spotted Cucumber Beetle
	Strawberry Weevil
	Strawberry Root Weevil
	Sweet Potato Beetle

PESTS CONTROLLED BY AZATIN®-XL (continued)

Two Banded Japanese Weevil	Tent Caterpillar
Twig Girdles	Tobacco Budworm
Western Corn Rootworm	Tobacco Hornworm
White-Fringed Beetle	Tomato Fruitworm
White Pine Weevil	Tomato Pinworm
Wireworms	Velvetbean Caterpillar
	Grape Leaf Skeletonizer
Borers, such as:	Centipedes
Azalea Stem Borer	
Bronze Birch Borer	Chafers, such as:
Dogwood Twig Borer	European Chafer
Dogwood Borer	Northern Masked Chafer
Iris Borer	Rose Chafer
Lilac Borer	Southern Masked Chafer
Mint Root Borer	
Oak Borer	Crickets, such as:
European corn Borer	Mole Cricket
Southwestern Corn Borer	Peachtree Borer
Peachtree Borer	Mormon Cricket
Peachtwig Borer	
Rhododendron Borer	Cutworms, such as:
	Black Cutworm
Budworms, such as:	Citrus Cutworm
Blackhead Budworms	Climbing Cutworm
Spruce Budworms	Western Bean Cutworm
Tobacco Budworms	Variegated Cutworm
Western Spruce Budworms	
Bugs, such as:	Flies, such as:
Alfalfa Plant Bug	Caribbean Fruit Fly
Boxelder Bug	Crane Fly
Chinch Bug	Fungus Gnat
Green Bug	Hessian Fly
Lygus Bug	Mushroom Fly
Southern Brown Stink Bug	Oriental Fruit Fly
Southern Green Stink Bug	Phorid Fly
Squash Bug	Mediterranean Fruit Fly
Tarnished Plant Bug	Melon Fly
	Shore Fly
Cankerworms, such as:	Walnut Husk Fly
Fall Cankerworm	
Spring Cankerworm	Grasshoppers and Locusts
Caterpillar and Loopers, such as:	Leaf Tiers and Leafholders
Alfalfa Caterpillar	
Blackhead Budworm	Leafhoppers, such as:
Cabbage Butterfly	Grape Leafhopper
Cabbage Looper	Potato Leafhopper
Corn Ear Worm	Variegated Leafhopper
Cranberry Fruitworm	
Dagger-moth	Leafminers, such as:
Diamondback Moth	Boxwood Leafminer
Green Clover Worm	Citrus Leafminer
Horn Worm	Elm Leafminer
Hickory Shuck Worm	Holly Leafminer
Imported Cabbage Worm	Serpentine Leafminer
Melon Rind Worm	Vegetable Leafminer
Naval Orange Worm	
Orange Tortrix	Leafrollers, such as:
Pecan Nut Casebearer	Blueberry Leafroller
Pickleworms	Grape Leafroller
Pink Bollworm	Filbert Leafroller
Range Caterpillar	Fruitree Leafroller
Red Humped Caterpillar	Oblique Banded Leafroller
Soybean Looper	Omnivorous Leafroller
Salt Marsh Caterpillar	Leaf Perforators

PESTS CONTROLLED BY AZATIN®-XL (continued)

- Marsh Crane Flies** Cottony-cushion Scale
- Fern Scale
- Mealybugs** Florida Red Scale
- Green Scale
- Midges, such as:** Juniper Scale
- Chrysanthemum Gall Midge Pine Needle Scale
- Douglas Fir Midge Purple Scale
- Rose Midge Rose Scale
- San Jose Scale
- Millipedes** Sugar Pine Scale
- Tea Scale
- Wax Scale
- Mites, such as:**
- Banks Mite
- Clover Mite
- Citrus Rust Mite
- Citrus Red Mite
- European Red Mite
- Hemlock Rust Mite
- Honey Locust Mite
- Pacific Mite
- Spruce Mite
- Two-spotted Mite
- Moths, such as:**
- Amorbia
- Almond Moth
- Artichoke Plume Moth
- Codling Moth
- Cranberry Girdle Moth
- European Pine Shoot Moth
- Grape Berry Moth
- Gypsy Moth
- Head Moth
- Oriental Fruit Moth
- Pine Tip Moth
- Sunflower Bud Moth
- Sunflower Moth
- Tiger Moth
- Tobacco Hornworm Moth
- Tufted Apple Bud Moth
- Tussock Moth
- Nematodes, such as:**
- Banana Nematode
- Citrus Nematode
- Cyst Nematode
- Dagger Nematode
- Lesion Nematode
- Ring Nematode
- Root Knot Nematode
- Stem Nematode
- Phylloxera, such as:**
- Grape Phylloxera
- Psyllids**
- Sawflies**
- Scales, such as:**
- Azalea Bark Scale
- Black Scale
- Brown Soft Scale
- California Red Scale
- Camellia Scale
- Coffee Scale

- Cottony-cushion Scale
- Fern Scale
- Florida Red Scale
- Green Scale
- Juniper Scale
- Pine Needle Scale
- Purple Scale
- Rose Scale
- San Jose Scale
- Sugar Pine Scale
- Tea Scale
- Wax Scale

Sowbugs (Pillbugs)

Thrips, such as:

- Citrus Thrips
- Flower Thrips
- Gladious Thrips
- Onion Thrips
- Pear Thrips
- Thrips palmi
- Tobacco Thrips
- Western Flower Thrips

Webworms, such as:

- Fall Webworms
- Sod Webworm

Whiteflies, such as:

- Ash Whitefly
- Banded-wing Whitefly
- Bayberry Whitefly
- Citrus Whitefly
- Cloudy-winged Whitefly
- Greenhouse Whitefly
- Silverleaf Whitefly
- Sweetpotato Whitefly
- Variiegated Whitefly
- Wolly Whitefly

CROPS ON WHICH AZATIN®-XL CAN BE USED

Azatin-XL can be used indoors and outdoors. Plants may be potted, grown in the soil or soilless mixtures or grown hydroponically.

Bedding Plants, Flowers, Potted Plants, And Foliage, such as:

- Actinopteris
- African Violet
- Aglaonema
- Allamanda
- Algerian Ivy
- Alocasia
- Anthurium
- Aphelandra
- Artemesia
- Aster
- Aucuba Ilex
- Azalea
- Baby's Breath
- Begonia
- Bougainvillea
- Boston Fern
- Boxwood
- Brachycome
- Cacti
- Calabrese'
- Caladium
- Calla
- Calathea
- Calendula
- Carnation
- Chrysanthemum
- Coleus
- Columbine
- Dahlia
- Daisy
- Daylily
- Delphinium
- Dianthus
- Dieffenbachia
- Dusty Miller
- Easter Lily
- English Ivy
- Euphoria
- Fern
- Ficus
- Foxglove
- Freezia
- Fuchsia
- Gaillardia
- Gardenia
- Geranium
- Gerbera
- Gladioli
- Gloxinia
- Gypsophilla
- Hedera
- Hibiscus
- Impatiens
- Iris
- Lily
- Manvilla
- Marigold
- Nasturtium
- Pansy
- Pelargonium
- Peony
- Peperomia
- Petunia
- Philodendron
- Phlox
- Photinia
- Pittosporum

- Pinks
- Poinsettia
- Pothos
- Portulaca
- Primrose
- Rosemary
- Rose
- Rubberplant
- Salvia
- Schefflera
- Sedum
- Sempervivum
- Snapdragon
- Spathiphyllum
- Stock
- Syngonium
- Verbena
- Vinca
- Wandering Jew
- Zinnia

Ornamentals, such as:

- African Violet
- Ageratum
- Arvborvitae
- Aster
- Aucuba Ilex
- Azalea
- Begonia
- Boxwood
- Cacti
- Calendula
- Calla
- Camella
- Camellia
- Carnation
- Ceanothus
- Crysanthemum
- Cineraria
- Coleus
- Cotoneaster
- Cyclamen
- Daffodil
- Dahlia
- Delphinium
- Dogwood
- Ficus
- Foliage Plants
- Fuchsia
- Gardenia
- Geranium
- Gloxinia
- Hyacinth
- Hydrangea
- Iris
- Ivy
- Lily
- Maidenhair Fern
- Marigold
- Narcissus
- Orchid
- Pansy
- Pelargonium
- Peony
- Phlox
- Photinia
- Pittosporum
- Poinsettia
- Pyracantha
- Rhododendron

CROPS ON WHICH AZATIN®-XL CAN BE USED (continued)

Rose
Rubber Plant
Snapdragon
Stock
Tulip
Wandering Jew
White Cedar
White Pine
Yew
Yucca
Zinnia

Trees And Shrubs, such as:

Andromeda
Arborvitae
Ash
Austrian Pine
Azalea
Beech
Birch
Birdnest Spruce
Blue spruce
Boxwood
Butternut
Cedar
Chamaecyparis
Cherry
Crabapple
Cotoneaster
Cyprus
Dogwood
Douglas fir
Elm
Euonymus
Firethorn
Forsythia
Hackberry
Hawthorn
Hemlock
Hickory
Holly
Honey Locust
Horse Chestnut
Juniper
Larch
Laurel
Lilac
Linden
Londo Plane
Magnolia
Manvilla
Maple
Mimosa
Moutain Ash
Myrtle
Oak
Pachysandra
Peach
Pine
Planetree
Poplar
Privet
Quince
Spruce
Sycamore

Turfgrass, such as:

Bentgrass
Bermuda grass
Bluegrass
Annual Bluegrass
Centipede Grass

Fescue
Ryegrass
Annual Ryegrass
Perennial Ryegrass
St. Augustine
Wheatgrass
Zoysia Grass

Brassica (Cole) Crops, such as:

Broccoli
Brussels Sprouts
Bok Choy
Cabbage
Chinese cabbage
Cauliflower

Bulb Vegetables, such as:

Garlic
Leek
Onion
Shallot

Cereal Grains, such as:

Barley
Buckwheat
Corn, field
Corn, sweet
Corn, pop
Millet
Oats
Rice
Rye
Sorghum
Triticale
Wheat

Citrus Fruits, such as:

Calamandin
Citrus citron
Grapefruit
Kumquat
Lemon
Limes
Mandarin (tangerine)
Orange, sour
Orange, sweet
Pummelo
Satsuma Mandarin

Cucurbit Vegetables, such as:

Balsam pear (bitter melon)
Chinese waxgourd
Citron Melon
Cucumber
Gherkin
Gourds
Cantaloupe
Casaba
Crenshaw
Honeydew
Honeyballs
Mango Melon
Pumpkin
Squash
Watermelon

Fiber Crops, such as:

Cotton
Flax
Kenaf

Forage And Fodder Crops, such as:

Alfalfa
Annual Ryegrass
Bermuda Grass
Bluegrass
Clover
Fescue
Hay (Mixed)
Kudzu
Lespedeaz
Lupine
Orchard grass
Pasture (Mixed)
Perennial Ryegrass
Redtop
Sainfoin
Timothy
Trefoil
Vetches
Wheatgrasses

Fruiting Vegetables, such as:

Eggplant
Ground Cherry
Pepinos
Peppers
Tomatillo
Tomato

Herbs And Spices, such as:

Anise
Balm
Basil
Borage
Burnnet
Camomile
Caraway
Catnip
Chives
Celery
Coriander
Costmary
Cumin
Curry Leaf
Dandelion
Dill
Fennel
Fenugreek
Horehound
Hyssop
Mint
Marigold
Marjoram
Nasturtium
Pennyroyal
Rosemary
Rue
Sage
Savory
Sweet Bay
Tansy
Tarragon
Thyme
Wintergreen
Woodruff
Wormwood

Leafy Vegetables, such as:

Chinese Spinach
Celery
Chervil
Collards
Corn salad
Chrysanthemum (edible)
Cress
Endive
Fennel
Kale
Kohlrabi
Lettuce
Mustard Greens
Orach
Parsley
Rhubarb
Spinach
Swiss Chard
Turnip tops

Leguminous Crops, such as:

Beans (Phaseolus, Lupinus, Vicia, Vigna spp)
Chick Peas (garbanzos)
Lentil
Peas (Pisum spp)
Soybeans

Nuts, such as:

Almond
Beech nut
Brazil nut
Butternut
Cashew
Chestnut
Chinquapin
Filberts (hazelnuts)
Hickory Nuts
Lychee
Macadamia
Pecan
Pistachio
Walnuts

Oil Seed Crops, such as:

Canola
Castors
Crambe
Guar
Jojoba
Peanuts
Rape
Safflower
Sesame
Soybean
Sunflower

Pome Fruits, such as:

Apple
Crabapple
Loquat
Mayhaws
Pear
Quince
Jujube

Root and Tuber Crops, such as:

Beet, red
Beet, sugar
Carrot
Cassava
Celeriac

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CROPS ON WHICH AZATIN®-XL CAN BE USED (continued)

- | | |
|----------------------------------|-----------------------------|
| Chervil | Malanga |
| Dasheen (taro) | Mango |
| Ginger | Mangosteen |
| Horseradish | Papaya |
| Jicama | Passion Fruit |
| Parsnips | Plantain |
| Potato | Rambutan |
| Radish | Starfruit |
| Radish, Japanese (Daikon) | |
| Rutabaga | Miscellaneous Crops, |
| Salisfy | such as: |
| Sweet potato | Artichoke |
| Tumeric | Asparagus |
| Turnip | Avocados |
| Yam | Birdseed |
| Yam Bean | Cardone |
| | Coffee |
| Stone Fruits, such as: | Cacao |
| Apricot | Edible flowers |
| Cherry, sour | Feijoa |
| Cherry, sweet | Figs |
| Nectarine | Hops |
| Peach | Guayule |
| Plum | Kiwi |
| Prune | Mushrooms |
| | Agaricus |
| Small Fruits and Berries, | Oyster |
| such as: | Chitake |
| Blackberry | Okra |
| Blueberry | Palm |
| Boysenberry | Papaya |
| Cranberry | Pawpaw |
| Current Dew Berry | Persimmon |
| Elderberry | Pineapple |
| Gooseberry | Sugar Cane |
| Grape | Tamarillo |
| Huckleberry | Tea |
| Loganberry | Tobacco |
| Olives | Waterchesnut |
| Olallie, berry | Watercress |
| Raspberry | |
| Strawberry | Non-crop Areas |
| Youngberry | |
| | Rangeland |
| Tropical Fruits, such as: | Barrier Strips |
| Abiu | |
| Atemoya | Rights Of Way |
| Breadfruit | |
| Banana | Wastelands |
| Cherimoya | |
| Durian | |
| Guava | |
| Longan | |

Important Note: This product has been evaluated for phytotoxicity on a wide range of crops. However, since all combinations or sequences of pesticide sprays including fertilizers, surfactants and adjuvants have not been tested, spray a small area first to make certain that no phytotoxicity occurs.

PREHARVEST INTERVAL

There are no restrictions on applying this product up to the time of harvest. Individual state regulations may vary and should be consulted for allowable pre-harvest interval.

MODE OF ACTION:

This product controls targeted insect larvae when they ingest or come in contact with it, by interfering with the insect's ability to molt. It is effective on all larval stages and pupae. It also reduces crop damage by repelling and deterring feeding of all stages of insects.

GENERAL APPLICATION DIRECTIONS
READ ALL DIRECTIONS BEFORE USING.

- Dilute Azatin®-XL in water at a rate up to 21 fluid ounces (20 grams active ingredient) per acre . Apply using any suitable ground or aerial equipment, in a manner to obtain uniform and complete plant coverage. For agronomic crops, apply using conventional application equipment in a minimum of 30 gallons of water per acre and aerial application equipment in a minimum of 3 gallons of water per acre. Avoid overspraying to the point of excessive runoff.
- The maximum application rate is 20 grams of active ingredient or less per acre according to the tolerance exemption (40 CFR 180.1119). Refer to table for detailed dilution rates.

Application Rates for Whitefly and other Greenhouse, (including Lath and Shade), Nursery and Interiorscape Pests.

Apply Azatin-XL at the dilution rate in 100 gallons of water to assure adequate plant coverage (use 1-2 gallons of spray solution / 1,000 sq. feet).

Pests controlled by Azatin®-XL	Rate of Azatin®-XL per 100 gallons water	Remarks
Sweet Potato Whitefly	10 to 16 fl.oz.	Foliar application to larvae
Silverleaf Whitefly	10 to 16 fl. oz.	Foliar application to larvae
Greenhouse Whitefly	10 to 16 fl. oz.	Foliar application to larvae
Fungus Gnats	8 fl. oz.	Apply as soil drench for maggot control.
Western Flower Thrips	12 to 16 fl. oz.	Suppression of larvae and adult feeding deterrence.
Aphids	12 to 16 fl. oz.	Suppression and adult feeding deterrence.
Leafminers	10 to 16 fl. oz.	Foliar application to larvae.
Armyworms	10 to 16 fl. oz.	Foliar application to larvae.
Others: Bagworms Borers Budworms Cankerworms Cutworms Gypsy Moths Leafhoppers Leafrollers Sawflies Tent Caterpillars Webworms	10 to 16 fl. oz.	Foliar application to larvae.
Black Vine Weevil	21 fl. oz./acre	Soil and foliar application to larvae.
Mushroom Fly	21 fl. oz./acre	Apply as soil drench for maggot control.

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Application Rates for Key Insect Pests in Vegetables, Fruits, Nuts and Agronomic Crops

Apply Azatin®-XL at the application rates in sufficient water to assure adequate coverage.

(Conventional application equipment: apply in a minimum of 30 gallons water per acre)

(Aerial application equipment: apply in a minimum of 3 gallons water per acre)

Pests controlled by Azatin®-XL	Rate Azatin®-XL per Acre*	Remarks
Aphids, such as: Cotton Aphid Green Peach Aphid Hop Aphid Potato Aphid	10 to 16 fl. oz. 10 to 16 fl. oz. 10 to 16 fl. oz. 10 to 16 fl. oz.	Foliar application, for suppression only
Armyworms, such as: Beet Armyworm Fall Armyworm Southern Armyworm Yellowstripe Armyworm	5 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz.	Foliar application to larvae
Beetles, such as: Colorado Potato Beetle	5 to 16 fl. oz.	Foliar application to larvae
Borers, such as: Peachtwig Borer Corn Earworm	5 to 16 fl. oz. 10 to 21 fl. oz.	Foliar application to larvae
Caterpillars, such as: Artichoke Plume Moth Cabbage Butterfly Corn Earworm Diamondback Moth Fruitree Leafroller Grape Leafroller Hickory Shuck Worm Imported Cabbage Worm Navel Orangeworm Omnivorous Leafroller Tobacco Budworm Tobacco Hornworm Tomato Fruitworm Western Grapeleaf Skeletonizer	16 to 21 fl. oz. 10 to 21 fl. oz. 10 to 21 fl. oz. 10 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz. 10 to 21 fl. oz. 5 to 16 fl. oz. 10 to 21 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz. 5 to 16 fl. oz.	Foliar application to larvae
Cutworms, such as: Citrus Cutworm Blackworm Cutworm Variegated Cutworm	5 to 16 fl. oz. 5 to 10 fl. oz. 5 to 10 fl. oz.	Foliar application to larvae
Loopers, such as: Cabbage Looper Soybean Looper	5 to 10 fl. oz. 5 to 10 fl. oz.	Foliar application to larvae
Leafminers, such as: Citrus Leafminer Serpentine Leafminer Vegetable Leafminer	10 to 16 fl. oz. 10 to 16 fl. oz. 10 to 16 fl. oz.	Foliar application to larvae. Use with Oil.
Leafhoppers, such as: Grape Leafhopper Variegated Leafhopper	10 to 16 fl. oz. 10 to 16 fl. oz.	Foliar application to nymphs. Use equipment to target the underside of leaves.
Scales, such as: Coffee Scale	10 to 16 fl. oz.	Foliar Application
Whiteflies, such as: Greenhouse Whitefly Sweet Potato Whitefly Silverleaf Whitefly	10 to 21 fl. oz. 10 to 21 fl. oz. 10 to 21 fl. oz.	Foliar application to nymphs. Use equipment to target undersides of leaves.

*When using lower rates (less than 10 fl. oz.), combine Azatin®-XL with an approved adjuvant such as a non-phytotoxic crop oil, up to 1%. Always ensure good coverage by adjusting spray gallonage. Treat early for best control. Do NOT use less than 10 fl. oz. In California.

- Make applications when pests first appear and are in their early larval stages. Repeat applications every 7 days or as needed.
- For best results, add a spreader-sticker at the label rate.
- Maintain dilute solutions containing Azatin®-XL at a pH between 3 and 7, and apply soon after preparation. Do not store for later use.
- This product may be pre-mixed in a supply tank with water, fertilizer or other appropriate agricultural chemicals. Agitation is necessary (See Mixing Directions). Crop injury or lack of effectiveness can result if uniform distribution is not achieved.
- When pest populations are high, use the higher label rates.

SPRAY

- **High volume** - When plant foliage is dense, use the higher label rates and increase spray gallonage to obtain uniform and complete coverage.
- **Aerial/Low/ultra low volume** - Apply Azatin®-XL at rates of 5 to 21 fl. oz./acre (10 to 20 fl. oz. in California) in a minimum of 3 gallons of water per acre. For best results, ensure uniform and complete plant coverage.

DRENCH/CHEMIGATION

- This product is effective as a soil drench for controlling soil-borne insect larvae (e.g. Fungus Gnats).
- It is also effective as a soil drench for controlling foliar and soil-borne pests, particularly when alternated with Azatin®-XL foliar sprays.
- Apply Azatin®-XL in sufficient water and for sufficient duration so as to distribute the application rate evenly to the entire treated area.
- Apply to moderately moist soils. Use volumes that thoroughly wet the soil, but do not cause significant surface runoff or excessive drip from pots.

CHEMIGATION

Refer to supplemental labeling entitled "Certis's Chemigation Bulletin" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

TURFGRASS:

Use Directions

Always apply Azatin®-XL as a spray in sufficient water to assure thorough coverage of the foliage or soil, depending on the type of application.

Equipment – Use suitable ground or aerial equipment that allows for uniform coverage of the targeted treatment area, such as hand or power-operated spray equipment, or hose-end application.

Application – For surface feeders – For control of armyworms, sod webworms, (Crambus spp) cutworms, and leafhoppers in turfgrass, apply Azatin®-XL at a rate up to 21 fluid ounces (0.5

fl. oz./1,000 sq. ft.) per acre. Use the higher label rates for moderate to heavy insect infestations.

Subsurface feeders – For control of white grubs, chinch bugs, and billbugs in turfgrass: Apply at a rate up to 21 fl. oz./acre (0.5 fl. oz./1,000 sq. ft.) per application. Sprinkle irrigate with 1 to 2 inches of water following treatment. Repeat application as needed.

Irrigate well before applying. Repeat application as needed. Use up to 5 gallons of water per 1,000 square feet (43 to 218 gallons/A) to obtain good coverage. For all applications use sufficient water rate to obtain thorough uniform coverage.

Alternative turf use directions (a):

Always apply this product as a spray in sufficient water to assure thorough coverage of the foliage depending on the type of application.

Equipment – Use suitable ground equipment that allows for uniform coverage of the targeted treatment area, such as hand-operated spray equipment, or hose-end applicators.

Application – For surface feeder – For control of armyworms, sod webworms, (*Crambus* spp) cutworms, and leafhoppers in turfgrass, apply at a rate of 10-21 fluid ounces (0.25 – 0.5 fl. oz./1,000sq. ft.) per acre. Use the higher label rates for moderate to heavy insect infestation.

Alternate turf use directions (b):

Dilute this product in water at a rate of 10 to 20 fluid ounces/100 gallons. Repeat application every 7 days or as needed.

Always apply product as a spray in sufficient water to assure thorough coverage of the foliage or soil depending on the type of application.

SPRAY EQUIPMENT

Use suitable equipment that allows for uniform coverage of the targeted treatment area, such as hand or power-operated spray equipment.

APPLICATIONS: Surface feeders: For control of armyworms, cutworms, and sod webworms in turfgrass: Apply at a rate of 10 to 20 fluid ounces (0.25 to 0.5 fluid ounces per 1,000 square feet) per acre. Use the higher label rates for moderate to heavy infestations. Use 1-5 gallons of water per 1,000 square feet (43 to 218 gallons/A) to obtain good coverage. Irrigate well before applying. For all applications use sufficient water to obtain thorough uniform coverage.

MIXING DIRECTIONS

AZATIN®-XL WITH WATER:

For best results:

1. Use clean equipment.
2. Fill tank 1/2 full to 3/4 full with water and begin agitation.
3. Add pesticide to the tank.
4. Fill the tank completely with water and mix thoroughly before applying.
5. Adjust spray solution to between 3 and 7 pH, if necessary.
6. Apply pesticide mix immediately after mixing.

7. If the mixture is not applied immediately, agitate before application.

8. Thoroughly clean equipment following application.

TANK MIXTURES OR FLUID FERTILIZERS

1. Before using this product in a tank mix with fertilizer or registered pesticide, determine compatibility by conducting a compatibility test with a small amount of each product.
2. Observe all cautions and limitations on labels of all products used in combination.
3. Follow all tank mix directions and observe limitations listed in the combination product(s) label.

COMPATIBILITY TEST

Perform a compatibility test before tank mixing this product with other product(s) or liquid fertilizer(s). Fill three separate 1 quart jars with 1 pint of water and fertilizer. To a first jar add this product and mix well. To a second jar, add the desired other tank mix product(s) and mix well. To a third jar, combine this product with the other tank mix product(s) and mix well. If more than one product is used, add them separately with dry formulations first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. For the appropriate amount of product for this test use the following:

DRY PRODUCTS: For each pound to be applied per acre, add 1.5 level teaspoons to each jar.

LIQUID PRODUCTS: For each pint to be applied per acre, add 0.5 teaspoons or 2.5 ml to each jar.

Note any differences between the mixtures in the jars (compounds alone vs. mixtures) after 15 minutes. Look for evidence of physical incompatibility such as clumping, precipitation, oily residues on the sides of the glass or other signs of incompatibility. If either mixture separates, but can be readily remixed, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, do not use the mixture. For additional mixing information or assistance, call Certis's Customer Service at (800) 250-5024.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store above 100 degrees F or below -20 degrees F for extended periods of time. Keep containers tightly closed when not in use.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: 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 1/4 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. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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WARRANTY

Certis USA, L.L.C. warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the insect problem, condition of the crop, incompatibility with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

CERTIS'S CHEMIGATION BULLETIN

GENERAL INFORMATION:

Apply this product only through drip (trickle); sprinkler (solid set, lateral move, end tow, side-roll, center pivot, or hand move); flood (basin); furrow; or border irrigation systems. Do not apply this product through any other type of irrigation system.

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

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

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

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.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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

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

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

Do not apply when wind speed favors drift beyond the area intended for treatment.

DRIP TRICKLE CHEMIGATION:

1. 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.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump such as a positive displacement injection pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.

SPRINKLER CHEMIGATION:

1. 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.
2. The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. 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.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional

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pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

- 6. Systems must use a metering pump, such as a positive displacement injection pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply when soils are moderately moist. Use volumes that thoroughly wet the foliage and/or soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.
- 8. Do not apply when wind speed favors drift beyond the area intended for treatment.

Application Approved

Date

Signature

FLOOD (BASIN), FURROW AND BORDER CHEMIGATION:

- 1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential of water source contamination from the backflow if water flow stops.
- 2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a. 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.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c. 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.
 - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
 - e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
 - f. Systems must use a metering pump, such as a positive displacement injection pump (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 3. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.

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Notification Accepted

Date: APR 06 2010

Reviewer: *Menyon Adams*