

5/29/96

PM 90

62552-10

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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 05-31-98



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
245469

Application for Pesticide - Section I

1. Company/Product Number 62552-10	2. EPA Product Manager Phil Hutton	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Azatin-XL	PM# 18	
5. Name and Address of Applicant (Include ZIP Code) AgriDyne Technologies, Inc. c/o biosys 10150 Old Columbia Road Columbia, MD 21046-1704 <input checked="" 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: 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
JUN 6 1996

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

Notification of alternate brand name per PR Notice 95-2. Registered name is Azatin-XL. Alternate brand name is Align-XL. Continued on page 2.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* 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 type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> 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 David P. Miller	Title Manager of Regulatory Affairs	Telephone No. (Include Area Code) (410) 381-3800
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.		Date Application Received (Stamped) MAY 29 10:13 REGD EAA/OPP/DPD1
nature 	3. Title Manager of Regulatory Affairs	
4. Typed Name David P. Miller	5. Date May 23, 1996	

EPA Form 8570-1

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This notification is consistent with the Provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 95-2 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

BIOLOGICAL INSECTICIDE

Align™ XL

*Align XL is the
Biological
Name*

EMULSIFABLE CONCENTRATE

ACTIVE INGREDIENTS:

Azadirachtin	3.0%
INERT INGREDIENTS	97.0%
	100.0%

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

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel for additional precautionary statements.



Net Contents:
1 GALLON

U.S. Patent No. 5001,146 and/or No. 5,124,349
E.P.A. Registration No. 62552-10

AGRIDYNE
TECHNOLOGIES INC.

E.P.A. Est. No. 67258-1L-1
AL-XL-GL-FR

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Causes eye irritation. Do not get in eyes. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- long-sleeved shirt and long pants
- chemical resistant gloves as barrier laminate or viton (≥14 mil)
- shoes plus socks, and
- protective eye wear

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

STATEMENT OF PRACTICAL TREATMENT

In eyes: Flush eyes with plenty of water for 15 minutes. Call a physician if irritation persists.
If inhaled: Move to fresh air. Clear lungs and airways. Get medical attention if irritation develops.
If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.
If swallowed: Do not induce vomiting. Contact a physician immediately.

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. Do not apply directly to water, or to areas where surface water is present or to intertidal area below the mean high-water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

STORAGE AND DISPOSAL

GENERAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.
STORAGE: Do not store above 100°F or below -20°F for extended periods of time. Keep containers tightly closed when not in use.
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 Hazardous Waste representative at the nearest EPA Regional Office for guidance.
CONTAINER DISPOSAL: Do not reuse as a container. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in an incinerator or landfill or by other procedures approved by State and local authorities.

For use directions, see attached label. If you have questions or comments regarding the use of this product, please call 1 (800) 857-3090.



AgriDyne Technologies Inc.
2401 S. Foothill Dr.
Salt Lake City, UT 84109

U.S. Patent No. 5001,146 and/or No. 5,124,349

AZ/AL-XL-QT/GL-BK

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BIOLOGICAL INSECTICIDE

Align™ XL

Alternate Brand Name

IMPORTANT INSTRUCTIONS ENCLOSED



AL-XL-H

FOR CONTROL OF INSECT PESTS IN OUTDOOR VEGETABLE, FRUIT, NUT AND AGRONOMIC CROPS.

ACTIVE INGREDIENTS: Azadirachtin* 3.0%
INERT INGREDIENTS 97.0%
 100.0%

*Contains 0.285 pounds (120 grams) of azadirachtin per gallon.

If you have questions or comments regarding the use of this product, please call 1(800) 657-3090.

E.P.A. Reg. No. 62552-10
 E.P.A., Est. No. 6725-IL-1
 U.S. Patent No. 5001.146 and/or 5124.349

CAUTION
 KEEP OUT OF REACH OF CHILDREN

CONTAINER DISPOSAL: Do not reuse as a container. Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in an incinerator or landfill or by other procedures approved by State and local authorities.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. 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 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 workers to enter into treated areas during the restricted entry interval (REI) of 4 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:

Long sleeved shirt, chemical resistant gloves such as barrier laminate or Viton (≥14 mil), shoes plus socks, and protective eye wear.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Causes eye irritation. Do not get in eyes. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

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 mil)
- shoes plus socks, and
- protective eye wear.

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

APPLICATION RATES FOR KEY INSECTS PESTS

Pests controlled by Align	Rates per Acre*	Remarks
Aphids, such as: Cotton Aphid Green Peach Aphid Hop Aphid Potato Aphid	10 to 16 oz. 10 to 16 oz. 10 to 16 oz. 10 to 16 oz.	Foliar application for suppression only.
Armyworms, such as: Beet Armyworm Fall Armyworm Soultrain Armyworm Yellow Striped Armyworm	5 to 16 oz. 5 to 16 oz. 5 to 16 oz. 5 to 16 oz.	Foliar application to larvae.
Beetles, such as: Colorado Potato Beetle	5 to 16 oz.	Foliar application to larvae.
Borers, such as: Peach Twig Borer	5 to 16 oz.	Foliar application to larvae.
Caterpillars, such as: Ariekoke Plume Moth Cabbage Butterfly Corn Earworm Diamondback Moth Fruitree Leafroller Grape Leafroller Hickory Shuck Worm Imported Cabbage Worm Navel Orange Worm Omnivorous Leafroller Tobacco Budworm Tobacco Hornworm Tomato Fruitworm Grapeleaf Skeletonizer	16 to 21 oz. 10 to 21 oz. 10 to 21 oz. 10 to 16 oz. 5 to 16 oz. 5 to 16 oz. 10 to 21 oz. 5 to 16 oz. 5 to 16 oz. 5 to 16 oz. 5 to 16 oz. 5 to 16 oz. 5 to 16 oz.	Foliar application to larvae.

STATEMENT OF PRACTICAL TREATMENT

If in Eyes: Flush eyes with plenty of water for 15 minutes. Call a physician if irritation persists.

If Inhaled: Move to fresh air. Clear lungs and always. Get medical attention if irritation develops.

If on Skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If Swallowed: Do not induce vomiting. Contact a physician immediately.

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. 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 neighboring areas. Do not contaminate water when disposing of equipment wash water or rinsate.

STORAGE AND DISPOSAL

GENERAL: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse container.

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: 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 Hazardous Waste representative at the nearest EPA Regional Office for guidance.

APPLICATION RATES FOR KEY INSECTS PESTS

Pests controlled by Align	Rates per Acre*	Remarks
Culworms, such as: Black Culworm Citrus Culworm Variegated Culworm	5 to 16 oz. 5 to 10 oz. 5 to 16 oz.	Foliar application to larvae.
Loopers, such as: Cabbage Looper Soybean Looper	5 to 10 oz. 5 to 10 oz.	Foliar application to larvae.
Leafhoppers, such as: Grape Leafhopper Variegated Leafhopper	10 to 16 oz. 10 to 16 oz.	Foliar application to nymphs. Use equipment to target the undersides of leaves.
Leafminers, such as: Citrus Leafminer Serpentine Leafminer Vegetable Leafminer	10 to 16 oz. 10 to 16 oz. 10 to 16 oz.	Foliar application to larvae. Use with oil.
Scales, such as: Coffee Scale	10 to 16 oz.	Foliar application.
Whiteflies, such as: Greenhouse Whitefly Sweetpotato Whitefly	10 to 21 oz. 10 to 21 oz.	Foliar application to nymphs. Use equipment to target the undersides of leaves.

APPLICATION RATES FOR KEY INSECTS PESTS

*When using lower rates, combine Align with an approved adjuvant, such as 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 oz. in California.

Hang Tag side 1

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Handwritten notes at the top of the page: "How to use" and "S. de 2".

CROPS ON WHICH ALIGN CAN BE USED

BRASSICA (Cole) CROPS, such as: bok choy, broccoli, Brussels sprouts, cabbage, cauliflower, Chinese cabbage	rice, rye, sorghum, triticale, wheat	squash, watermelon
BULB VEGETABLES, such as: garlic, leek, onion, shallot	CITRUS FRUITS, such as: citrus citron, grapefruit, kumquat, lemon, limes, mandarin (tangerine), orange, sour orange, sweet orange	FORAGE AND FODDER CROPS, such as: alfalfa, Bermuda grass, timothy, grass, vetches, wheat, grasses
CEREAL GRAINS, such as: barley, buckwheat, corn, field corn, sweet corn, pop, millet, oats	CUCURBIT VEGETABLES, such as: bittermelon, cantaloupe, crenshaw, cucumber, gourd, honeydew, pumpkin	FRUITING VEGETABLES, such as: eggplant, peppers, tomato
	HERBS AND SPICES, such as: anise	

CROPS ON WHICH ALIGN CAN BE USED (cont.)

balm, basil, borage, burnalt, chamomile, caraway, catnip, chives, coriander, coosmary, cumin, curry leaf, dandelion, dill, fennel, fenugreek, horhound, hyssop, mint, marigold, marjoram, nasturtium, pennyroyal, rosemary, rue, sage, savory	sweetbay, tansy, tarragon, thyme, wintergreen, woodruff, wormwood	LEGUMINOUS CROPS, such as: beans (Phaseolus, Lupinus, Vicia, Vigna spp), lentil, peas (Pisum spp)
LEAFY VEGETABLES, such as: Chinese spinach, celery, chervil, collard, endive, kale, kohlrabi, lettuce, mustard greens, parsley, rhubarb, spinach, Swiss chard	NUTS, such as: almond, cashew, filbert, lychee, macadamia, pecan, pistachio, walnut	OIL SEED CROPS, such as: canola, castors, crambe, jojoba

CROPS ON WHICH ALIGN CAN BE USED (cont.)

peanuts, rapeseed, sesame, soybean, sunflower	sweet potato, turnip, yam	raspberry, strawberry
POME FRUITS, such as: apple, crabapple, pear	STONE FRUITS, such as: apricot, cherry, sour cherry, sweet neclarine, peach, plum, prune	TROPICAL FRUITS, such as: banana, guava, mango, plantain, papaya, passion fruit
ROOT AND TUBER VEGETABLES, such as: beet, red beet, sugar carrot, dasheen (taro), ginger, Japanese radish (diakon), parsnip, potato, radish	SMALL FRUITS AND BERRIES, such as: blackberry, blueberry, boysenberry, cranberry, current, grape, olives, huckleberry, loganberry	MISCELLANEOUS CROPS, such as: artichoke, asparagus, avocado, coffee, figs, kiwi, papaya, persimmon, pineapple, tobacco

IMPORTANT NOTE

Align 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, it is recommended that a small area be sprayed first to make certain that no phytotoxicity occurs.

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.

RE-ENTRY/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.

APPLICATION DIRECTIONS

READ ALL DIRECTIONS, BEFORE USING.
Dilute this product in water at rates of 10 to 21 fluid ounces (20 grams active ingredients) per acre. Apply using any suitable ground or aerial equipment, in a manner to obtain uniform and complete plant coverage. Avoid overspraying to the point of excessive runoff.
Applications should be made when pests first appear and are in their early larval stages. Repeat applications every 10 days or as needed.
For best results, a spreader-sticker should be added at the recommended label rate.
Dilute solutions containing Align should be maintained at a pH between 3 and 7, and applied 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.

APPLICATION DIRECTIONS (Continued)

SPRAY: High volume - When plant foliage is dense, use the higher label rates and increase spray gallonage to obtain uniform and complete coverage.

Low/Ultra Low volume - Apply Align, at rates of 5 to 21 oz./acre (10 to 21 oz. in California), in a carrier appropriate for the application equipment. For best results, ensure uniform and complete plant coverage.

Aerial Application - Align may be aerially applied, at rates of 5 to 21 oz./acre (10 to 21 oz. in California), using suitable equipment such as fixed wing aircraft or helicopters. Select appropriate carrier and equipment to provide uniform and complete coverage.

CHEMIGATION: Refer to supplemental labeling entitled "AgriDyne'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.

MIXING DIRECTIONS

ALIGN 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. Pesticide mix should be applied 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

A compatibility test should be performed before tank mixing this product with other product(s) or liquid fertilizer(s). Fill three separate 1 quart jars with 1 pint of water or 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 AGRIDYNE's Customer Service at 1(800) 657-3090.

LIMITATION OF WARRANTY AND CONDITIONS OF SALE

Read this Limited Warranty and Liability before buying or using this product.

AgriDyne Technologies, Inc. warrants that this product conforms to the chemical description on the label and if used in accordance with directions for use, is fit for the purpose referred to. It is impossible, however, to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of AgriDyne Technologies, Inc. All such risks are expressly assumed by the buyer.

AgriDyne Technologies, Inc. makes no other warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above. Under no circumstances shall the manufacturer be held liable for consequential or indirect damages resulting from the use or handling of this product. Damages caused by this product shall be limited to the purchase price.



2401 S. Foothill Dr. / Salt Lake City, Utah 84109
(801) 467-4100 / (800) 657-3090

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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.

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 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 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 in sufficient water and of sufficient duration 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 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 (e.g., 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 in sufficient water and of sufficient duration 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.

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 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 (e.g., 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 in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area.



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 (801) 583-3500 or (800) 657-3090