

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

NOTICE OF PESTICIDE: ☒ REGISTRATION  
☐ REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

EPA REGISTRATION NO.

62552-2

DATE OF ISSUANCE

11/17/92

TERM OF ISSUANCE

Conditional Registration

NAME OF PESTICIDE PRODUCT

AZATIN-PLUS ECTM

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

AGRIDYNE  
Technologies, Inc.  
417 Wakara Way  
Salt Lake City, Utah 84108

175  
18/1

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

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

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(B), since you have agreed to the conditions set forth in the Agency's Pre-Acceptance letter to your company dated December 15, 1991, and your letter of response dated December 24, 1991.

The company's requested dates for submission of the required data/information to the Agency is acceptable as requested per your response letter of December 24, 1991.

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

**BEST AVAILABLE COPY**

☒ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

William D. Helton, Jr. Special Master

DATE

11/17/92

2. Make all of the labeling changes listed below before you release the product for shipment:

- a. Add the phrase "EPA Registration No. 62552-2"
- b. Precautionary Labeling--"WARNING: KEEP OUT OF REACH OF CHILDREN"
- c. ENVIRONMENTAL HAZARD STATEMENT: This pesticide is toxic to fish. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning equipment or disposing of waste.
- d. Delete from your labeling the pests: Carpenter Ant and Imported Fire Ant until such time efficacy data is provided and found acceptable.

3. NOTE: You must agree to do the (currently required) Daphnia magna Life Cycle (21-Day Renewal) Chronic Toxicity Test; however, this requirement is currently under negotiation and could be waived pending re-evaluation of this requirement for your particular product by Ecological Effects Branch.

4. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

**BEST AVAILABLE COPY**

JAN 17 1992

# AZATIN-PLUS EC™ INSECTICIDE FOR INDOOR AND OUTDOOR USES

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide  
registered under EPA Reg. No.  
62552-2

## ACTIVE INGREDIENTS:

Azadirachtin*	3.0%
Other Neem plant compounds	27.0%
Piperonyl butoxide	12.0%
INERT INGREDIENTS	58.0%
	100.0%

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

## WARNING

KEEP OUT OF REACH OF CHILDREN

AVISO-PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

## 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 airways. Get medical attention if irritation develops.  
If on Skin: Wash with plenty of soap and water. Get medical attention if irritation develops.  
If Swallowed: Do not induce vomiting. Contact a physician immediately.

## PRECAUTIONARY STATEMENTS

Harmful if swallowed or inhaled. Avoid breathing vapors or spray mist. Wear a dust mask while spraying. Causes eye irritation. Do not get in eyes. Wash hands thoroughly after handling. Allow spray to dry before reentering treated areas.

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 neig oring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Do not apply this product while bees are actively visiting the treatment area.

## IN CASE OF SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT

Call CHEMTREC at 800-424-9300

If you have questions or comments regarding the use of AZATIN-EC, please call 801-583-3500 during business hours.

Net Contents:  
Native Plants Incorporated  
417 Wakara Way  
Salt Lake City, UT 84108

Product Expiration Date: (3 years after Packaging)  
E.P.A. Registration No. 62552-2  
E.P.A. Est. No. 62552-UT-001  
NPI 90012/91

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# DIRECTIONS FOR USE

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

## PESTS CONTROLLED BY AZATIN-PLUS EC

<b>Ants</b>	<b>Iris Borer</b>	<b>Midges</b>
Argentine Ant	Lilac Borer	Chrysanthemum Gall Midge
<del>Carpenter Ant</del>	Oak Borer	Rose Midge
<del>Imported Fire Ant</del>	Peachtree Borer	<b>Millipedes</b>
<b>Aphids</b>	Rhododendron Borer	<b>Mites</b>
Alfalfa Aphid	<b>Budworms</b>	Clover Mite
Cabbage Aphid	Spruce Budworm	European Red Spidermite
Cooley Spruce Gall Aphid	Western Spruce Budworm	Hemlock Rust Mite
Corn Root Aphid	<b>Bugs</b>	Honeylocust Mite
Eastern Spruce Gall Aphid	Boxelder Bug	Pacific Mite
Green Peach Aphid	Chinch Bug	Spruce Mite
Hickory Leafstem Gall Aphid	Green Bug	Two-Spotted Spidermite
Pea Aphid	Lygus Bug	<b>Moths</b>
Pine Bark Aphid	Southern Brown Stink Bug	Codling Moth
Potato Aphid	Southern Green Stink Bug	Cranberry Girdler Moth
Rose Aphid	Tarnished Plant Bug	European Pine Shoot Moth
Spruce Gall Aphid	<b>Cankerworms</b>	Gypsy Moth
Strawberry Aphid	Fall Cankerworm	Pine Tip Moth
White Root Aphid	Spring Cankerworm	Tiger Moth
Woolly Apple Aphid	<b>Caterpillars</b>	Tobacco Hornworm Moth
Woolly Hemlock Aphid	Cabbage Butterfly	Tussock Moth
<b>Armyworms</b>	Corn Ear Worm	<b>Psyllids</b>
Fall Armyworm	Dagger-moth	<b>Sawflies</b>
Lawn Armyworm	Diamond Back Moth	<b>Scales</b>
Southern Armyworm	Imported Cabbage Worm	Azalea Bark Scale
Yellow Striped Armyworm	Tent Caterpillars	Black Scale
<b>Bagworms</b>	Tomato Fruit Worm	Brown Soft Scale
<b>Beetles and Weevils</b>	<b>Centipedes</b>	California Red Scale
Billbugs	<b>Chafers</b>	Camellia Scale
Black Vine Weevil	European Chafer	Cottony-cushion Scale
Blister Beetle	Northern Masked Chafer	Fern Scale
Bluegrass Weevil	Rose Chafer	Florida Red Scale
Colorado Potato Beetle	Southern Masked Chafer	Juniper Scale
Douglas Fir Beetle	<b>Crickets</b>	Pine Needle Scale
Elm Bark Beetle	Mole Cricket	Rose Scale
Elm Leaf Beetle	Mormon Cricket	San Jose Scale
Ipe Bark Beetle	<b>Cutworms</b>	Sugar Pine Scale
Japanese Beetle (White Grub)	Fungus Gnats	Tea Scale
Japanese Weevil	Greenhouse Leaf Tier	Wax Scale
June Beetle	Grasshoppers and Locusts	<b>Sowbugs (Pillbugs)</b>
May Beetle	Clear Wing Grasshopper	<b>Thrips</b>
Mexican Bean Beetle	Desert Locust	Citrus Thrips
Mountain Pine Beetle	Differential Grasshopper	Flower Thrips
Palea Weevil	Lesser Migratory Grasshopper	Gladolus Thrips
Pine Bark Beetle	Rangeland Grasshopper	Onion Thrips
Pine Root Collar Weevil	Two Striped Grasshopper	Western Flower Thrips
Southern Pine Beetle	<b>Leafhoppers</b>	<b>Webworms</b>
Spotted Cucumber Beetle	<b>Leafminers</b>	Fall Webworm
Two-banded Japanese Weevil	Azalea Leafminer	Sod Webworm
White-Fringed Beetle	Boxwood Leafminer	<b>Whiteflies</b>
White Pine Weevil	Elm Leafminer	Ash Whitefly
<b>Borers</b>	Holly Leafminer	Bayberry Whitefly
Azalea Stem Borer	<b>Leafrollers</b>	Citrus Whitefly
Bronze Birch Borer	Loopers	Cloudy-winged Whitefly
Dogwood Twig Borer	Marsh Crane Flies	Greenhouse Whitefly
Dogwood Borer	Mealybugs	Sweetpotato Whitefly

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## CROPS ON WHICH AZATIN-PLUS EC CAN BE USED

AZATIN-PLUS EC 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:

African Violet  
Ageratum  
Aglaonema  
Algerian Ivy  
Alocasia  
Anthurium  
Aphelandra  
Artemisia  
Aster  
Azalea  
Baby's Breath  
Begonia  
Caladium  
Calathea  
Carnation  
Chrysanthemum  
Coleus  
Columbine  
Daisy

Delphinium  
Dieffenbachia  
Easter Lily  
English Ivy  
Fern  
Ficus  
Foxglove  
Gaillardia  
Gardenia  
Geranium  
Gladiolus  
Gloxinia  
Impatiens  
Lily  
Marigold  
Pansy  
Peperomia  
Petunia  
Philodendron

Phlox  
Pinks  
Polka-dot  
Pothos  
Primrose  
Rosemary  
Rose  
Salvia  
Schefflera  
Sedum  
Sempervivum  
Snapdragon  
Spathiphyllum  
Syngonium  
Verbena  
Vinca  
Zinnia

### ORNAMENTALS:

African Violet  
Ageratum  
Arbovitae  
Aster  
Aucuba Ilex  
Azalea  
Begonia  
Boxwood  
Cacti  
Camellia  
Calla  
Camellia  
Carnation  
Ceanothus  
Chrysanthemum  
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  
Phlox  
Pittosporum  
Polka-dot  
Pyracantha  
Rhododendron  
Rose  
Rubber plant  
Snapdragon  
Stock  
Tulip  
Wandering Jew  
White cedar  
White pine  
Yew  
Yucca  
Zinnia

## TREES AND SHRUBS:

Andromeda  
Arborvitae  
Ash  
Azalea  
Beech  
Birch  
Boxwood  
Butternut  
Catalpa  
Chamaecyparis  
Cherry  
Crepe myrtle  
Dogwood  
Douglas fir  
Elm  
Euonymus fr

Firethorn  
Forsythia  
Hackberry  
Hawthorn  
Hemlock  
Hickory  
Holly  
Honey locust  
Horse chestnut  
Juniper  
Larch  
Laurel  
Lilac  
Linden  
London plane  
Magnolia

Maple  
Mimosa (silk tree)  
Mountain ash  
Myrtle  
Oak  
Pachysandra  
Peach  
Pine  
Planetree  
Poplar  
Privet  
Quince  
Spruce  
Sycamore  
Other ornamentals,  
trees and shrubs

## TURF

Bentgrass  
Bermuda Grass  
Bluegrass  
Annual Bluegrass  
Buffalo Grass

Centipede Grass  
Fescue  
Ryegrass  
Annual Ryegrass  
Perennial Ryegrass

St. Augustine  
Wheatgrass  
Zoysia Grass

**IMPORTANT NOTE:** AZATIN-PLUS EC has been evaluated for phytotoxicity on a wide range of ornamental plants. 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.

## APPLICATION DIRECTIONS

Read all directions before using.

### A POTTED OR FLOWERING PLANTS, BEDDING PLANTS, FOLIAGE PLANTS, TREES AND ORNAMENTALS.

- 1 **SPRAY:** Dilute AZATIN-PLUS EC in water at a rate of 8.0 fluid ounces per 100 gallons. Apply using suitable hand or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results apply spray to thoroughly wet both upper and lower leaf surfaces to run-off. Avoid overspraying to the point of excessive runoff. Treat when pests first appear and are in their earlier instars. Repeat applications every 7 days or as needed. Spraying early mornings or late afternoon is recommended. Apply a maximum of 21 ounces per acre. If more than 200 gallons are required per acre, follow dilution rates on chart below:

#### Spray Gallonage

100 GPA  
200 GPA  
300 GPA  
400 GPA  
500 GPA

#### Rate (21 Ounces Maximum)

8.0 Ounces/100 Gallons  
8.0 Ounces/100 Gallons  
7.0 Ounces/100 Gallons  
5.25 Ounces/100 Gallons  
4.25 Ounces/100 Gallons

- 2 DRENCH (injection irrigation or hand applied): Dilute AZATIN-PLUS EC in water at a rate of 8 - 21 fluid ounces per acre. Apply as a soil drench to moderately moist soils. Use volumes of drench that thoroughly wet the soil but that do not cause significant surface runoff or excessive drip from pots. Apply drench solution at rates up to, but not exceeding 21 ounces of AZATIN-PLUS EC per acre. AZATIN-PLUS EC 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 insect pests, particularly when alternated with AZATIN-PLUS EC foliar sprays. Treat when pests first appear and are in their earliest instars. Repeat applications every 7 days or as needed. AZATIN-PLUS EC may be premixed in a supply tank with water, fertilizer, or other appropriate tank mixed agricultural chemicals. Agitation is necessary. Application should be in sufficient water and of sufficient duration to apply the recommended rate evenly to the entire treated area. Crop injury, or lack of effectiveness can result from nonuniform distribution of treated water.

**DO NOT CONNECT AN IRRIGATION SYSTEM USING AZATIN-PLUS EC APPLICATION TO A POTABLE WATER SYSTEM UNLESS THE IRRIGATION SYSTEM CONTAINS ALL THE NECESSARY AND PROPER DEVICES AND EQUIPMENT TO PREVENT WATER SOURCE CONTAMINATION FROM BACKFLOW.** For information on devices and equipment that must be part of the irrigation system, refer to AZATIN-PLUS EC technical guide or consult local codes. Failure to use the necessary and proper equipment can result in contamination of potable water systems.

### 3 TURF GRASS

- 1 AZATIN-PLUS EC should always be applied as a spray in sufficient water to assure thorough coverage of the foliage or soil, depending on the type of application.
- 2 SPRAY EQUIPMENT: Use conventional spray equipment that allows for uniform coverage of the targeted treatment area, such as hand or power-operated spray equipment, or hose-end applicators.
- 3 APPLICATION: Surface feeders: For control of armyworm, fall armyworm, yellow striped armyworm, southern armyworm, lawn armyworm, sod webworm (*Crambus* spp.), cutworm, chinch bug, leafhopper, and aphids in turfgrass: Apply AZATIN-PLUS EC at a rate of 0.5 fluid ounces per 1,000 square feet. Use 1-15 gallons of water per 1,000 square feet to obtain good coverage. Irrigate well before applying. Do not water or cut grass until at least 24 hours after application. Late afternoon application is preferable. For chinch bugs, repeat application every week or as needed.

Subsurface feeders: For control of white grubs, and billbugs in turfgrass: Apply AZATIN-PLUS EC at 0.5 fluid ounces per 1,000 square feet. Sprinkle irrigate with 1 to 2 inches of water after application.

## MIXING DIRECTIONS

### AZATIN-PLUS EC WITH WATER:

- 1 Thoroughly clean equipment.
- 2 Fill tank 1/2 to 3/4 full with water.
- 3 Add AZATIN-PLUS EC to the tank.
- 4 Complete filling tank and thoroughly mix before application.
- 5 AZATIN-PLUS EC should be applied immediately after mixing.
- 6 If the mixture is not applied immediately, agitate before application.
- 7 Thoroughly clean equipment following application.

### TANK MIXTURES OR FLUID FERTILIZERS WITH AZATIN-PLUS EC:

- 1 Before using AZATIN-PLUS EC in a tank mix with fluid 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 AZATIN-PLUS EC with other product(s) or liquid fertilizer(s). Fill three separate 1 quart Mason jars with 1 pint of water or fertilizer. To a first jar add Azatin-Plus EC and mix well. To a second jar add the desired other tank mix product(s) and mix well. To a third jar combine the AZATIN-PLUS EC 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 concentrate 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 teaspoon 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 NPI Technical Product Services at 801-583-3500.

## 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:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** 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.



## LIMITATION OF WARRANTY AND CONDITIONS OF SALE

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

NATIVE PLANTS 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 purposes 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 NATIVE PLANTS INC. All such risks are expressly assumed by the buyer.

NATIVE PLANTS 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.