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62552-1

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ACCEPTED

APR 27 1992

Insecticide,
Rodenticide Act.
the pesticide
62552-1

AZATIN-EC™ INSECTICIDE FOR INDOOR AND OUTDOOR USES

ACTIVE INGREDIENTS:

Azadirachtin*.....	3.0%
Other Neem plant compounds.....	27.0%
INERT INGREDIENTS	70.0%
	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 amplamente.

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 neighboring 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 801 593-3500 during business hours.

Net Contents:
AgriDyne Technologies Incorporated
417 Wakara Way
Salt Lake City, UT 84108

Product Expiration Date: (1 year after Packaging)
E.P.A. Registration No. 62552-1
E.P.A. Est. No. 62552-UT-001
ATI 001/92

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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 EC

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

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CROPS ON WHICH AZATIN EC CAN BE USED

AZATIN 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
 Gladioli
 Gloxinia
 Impatient
 Lily
 Marigold
 Pansy
 Peperomia
 Petunia
 Philodendron

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

ORNAMENTALS:

African Violet
 Ageratum
 Arborvitae
 Aster
 Aucuba Ilex
 Azalea
 Begonia
 Boxwood
 Cacti
 Calendula
 Calla
 Camella
 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
 Photinia
 Pittosporum
 Poinsettia
 Pyracantha
 Rhododendron
 Rose
 Rubber plant
 Snapdragon
 Stock
 Tulip
 Wandering Jew
 White cedar
 White pine
 Yew
 Yucca
 Zinnia

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TREES AND SHRUBS:

Andromeda
 Arborvitae
 Ash
 Azalea
 Beech
 Birch
 Boxwood
 Butternut
 Catawba
 Chamaecyparis
 Cherry
 Crabapple
 Dogwood
 Douglas fir
 Elm
 Norway spruce
 Pinus
 Pinyon
 Redwood
 Sycamore
 Tamarac
 White pine

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

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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-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-EC in water at a rate up to 21 fluid ounces per acre. Apply using suitable 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 earliest 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 per application. To ensure good results, a spreader sticker is recommended.

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2. Drench (Injection irrigation or hand applied): Dilute AZATIN-EC in water at a rate up to 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-EC per acre. AZATIN-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-EC foliar sprays. Treat when pests first appear and are in their earlier instars. Repeat applications every 7 days or as needed. AZATIN-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-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, consult local codes. Failure to use the necessary and proper equipment can result in contamination of potable water systems.

B. TURFGRASS

1. **AZATIN-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 bugs, leafhopper, and aphids in turfgrass: Apply **AZATIN-EC** at a rate up to 0.5 fluid ounces per 1,000 square feet. Use 1-5 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. Repeat application as needed.

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

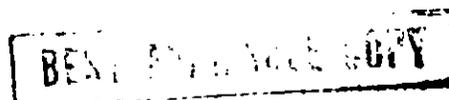
MIXING DIRECTIONS

AZATIN-EC with water:

1. Thoroughly clean equipment.
2. Fill tank 1/2 to 3/4 full with water.
3. Add **AZATIN-EC** to the tank.
4. Complete filling tank and thoroughly mix before application.
5. **AZATIN-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-EC:

1. Before using **AZATIN-EC** in a tank mix with fluid fertilizer or registered pesticide, determine compatibility by conducting a compatibility test with a small amount of 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-EC** with other product(s) or liquid fertilizer(s). Fill three separate 1 quart Mason jars with 1 pint of water of fertilizer. To a first jar add **AZATIN-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-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 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 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 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 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.

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 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 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.