



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

ADVERTENCIA-AL USUARIO: Si usted no lee inglés, 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 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 801-583-3500 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

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

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
Pinkie
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
Camellia
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

TREES AND SHRUBS:

Andromeda
Arborvitae
Ash
Azalea
Beech
Birch
Boxwood
Butternut
Cataneaster
Chamaecyparis
Cherry
Crabapple
Dogwood
Douglas fir
Elm
Euonymus fir

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 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 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 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 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 earliest 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, refer to AZATIN EC technical guide or consult local codes. Failure to use the necessary and proper equipment can result in contamination of potable water systems.

B TURF GRASS

- 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 bug, leafhopper, and aphids in turfgrass: Apply AZATIN 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 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 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 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 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 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 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.