Olympic

AZATIN® XL
Botanical Insecticide
FOR INDOOR AND OUTDOOR USE ON ORNAMENTALS AND HORTICULTURAL CROPS

ACTIVE INGREDIENT: Azadirachtin* - 3.0%
OTHER INGREDIENTS - 97.0%

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

EPA Reg. No. 70051-27-59807
EPA Est. No.: 44616-MO-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

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 (PPE)

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.

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.

FIRST AID

If in Eyes: Flush eyes with plenty of water. 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.

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 cleaning equipment or disposing of equipment washwaters.

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.

STORAGE AND DISPOSAL

GENERAL: 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 may be disposed of on site or at an approved waste disposal facility. CONTAINER DISPOSAL: Do not re-use 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.

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, de-contamination, 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.

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

Aphids, such as:
• Apple Aphid
• Cotton Aphid
• Green Peach Aphid
• Melon Aphid

Armymoths, such as:
• Black Vine Weevil
• Colorado Potato Beetle
• Elm Leaf Beetle
• Flea Beetles

Bagworms
• Beet Armyworm
• Fall Armyworm
• Lawn Armyworm

Caterpillar and Loopers, such as:
• Cabbage Looper
• Corn Earworm
• Diamondback Moth
• Grapeleaf Skeletonizer
• Imported Cabbage Moth
• Navel Orangeworm

Chafer, such as:
• European Chafer
• Northern Masked Chafer

Cutworms, such as:
• Black Cutworm
• Citrus Cutworm

Flies, such as:
• Caribbean Fruit Fly
• Crane Fly
• Fungus Gnat
• Hessian Fly
• Oriental Fruit Fly

Leaf Tiers
• Grape Leafhopper

Mesh Crane Flies
• Potato Leafhopper

Leaffoilers, such as:
• Citrus Leafminer
• Serpentine Leafminer

Leaffroilers, such as:
• Blueberry Leafroller
• Filbert Leafroller
• Fruitleafroller

Leaf Perforators
• Grape Leafroller

Marsh Crane Flies
• Oblique Banded Leafroller

Mealbugs
• Northern Masked Chafer

Moths, such as:
• European Pine Shoot Moth
• Pine Tip Moth

Psyllids
• Tussock Moth

Sawflies
• Tomato Fruitleafroller

Thrips, such as:
Citrus Fruits, such as:
  - Dogwood
  - Cyprus
  - Cotoneaster
  - Crabapple
  - Cherry
  - Cedar
  - Butternut
  - Boxwood
  - Blue Spruce
  - Birdsnest Spruce
  - Birch
  - Azalea
  - Ash
  - Andromeda

Grapefruit
Kumquat
(tangerine)

Whiteflies, such as:
  - Greenhouse Whitefly
  - Silverleaf 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
- Aglaonema
- Allamanda
- Algerian Ivy
- Alcosta
- Anththurium
- Aphelandra
- Artemisia
- Aster
- Aucuba Illex
- Azalea
- Baby’s Breath
- Begonia
- Bougainvillea
- Boston Fern
- Boxwood
- Brachycome
- Cacti
- Calabrese
- Caladium
- Calla
- Calathea
- Calendula
- Carnation
- Chrysanthemum
- Coleus
- Columbine
- Dahlia

Ornamentals, such as:
- Ageratum
- Arborvitae
- Aster
- Aucuba Illex
- Azalea
- Begonia
- Begonia Foliage Plants
- Boxwood
- Cacti
- Calendula
- Calla
- Camella
- Camellia
- Carnation
- Ceanothus
- Chrysanthemum
- Cinemara
- Coleus
- Cotoneaster
- Cyclamen

Trees and Shrubs, such as:
- Andromeda
- Arborvitae
- Ash
- Austrian Pine
- Azalea
- Beech
- Birch
- Birdsnest Spruce
- Blue Spruce
- Boxwood
- Butternut
- Cedar
- Chamaecyparis
- Cherry
- Crabapple
- Cotoneaster
- Cyprus
- Dogwood

Bulb Vegetables, such as:
- Garlic
- Leek
- Shallot

Citrus Fruits, such as:
- Calamondin
- Citrus citron
- Grapefruit
- Mandarin
- Kumquat

Fruiting Vegetables, such as:
- Eggplant
- Ground cherry

Herb and Spices such as:
- Anise
- Balm
- Borage
- Burnet
- Chamomile
- Caraway
- Catnip
- Celery
- Chives
- Costandar
- Costmary

Leafy Vegetables, such as:
- Chinese spinach
- Celery
- Chervil
- Collards
- Corn salad
- Chrysanthemum
- Brassica (Cole) Crops, such as:
- Broccoli
- Brussels sprouts

Fruits, such as:
- Apple
- Crabapple
- Loquat

Root and Tuber Crops, such as:
- Beet
- Beet, sugar
- Carrot
- Cassava
- Celery
- Chervil
- Dasheen (taro)

Miscellaneous, such as:
- Apricot
- Avocado
- Birdseed
- Coffee
- Cacao
- Edible Flowers
- Feijoa

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 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. Refer to tables for detailed dilution rates.

Applications should be made when pests first appear and are in their early larval stages. Repeat applications every 7 days as needed. For best results, a spreader-sticker should be added at the recommended label rate. Dilute solutions containing Azatin XL 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 Rates for Whitefly and Other Greenhouse (including Lathe and Shade), Nursery and Interiorscape Pests

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

### Application Rates for Key Insect Pests in Vegetables, Fruits, and Nut Crops

Apply Azatin XL at the recommended use dilution rate 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).

<table>
<thead>
<tr>
<th>Pests controlled by Azatin XL</th>
<th>Rate of Azatin XL per 100 gallons water</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphids</td>
<td>12 to 16 oz.</td>
<td>Suppression and adult feeding deterrence.</td>
</tr>
<tr>
<td>Armyworms</td>
<td>10 to 16 oz.</td>
<td>Foliar application to larvae.</td>
</tr>
<tr>
<td>Black Vine Weevil</td>
<td>21 oz./acre</td>
<td>Soil and foliar application to larvae.</td>
</tr>
<tr>
<td>Fungus Gnats</td>
<td>8 oz.</td>
<td>Apply as soil drench for maggot control.</td>
</tr>
<tr>
<td>Leadminers</td>
<td>10 to 16 oz.</td>
<td>Foliar application to larvae.</td>
</tr>
<tr>
<td>Western Flower Thrips</td>
<td>12 to 16 oz.</td>
<td>Suppression of larvae and adult feeding deterrence.</td>
</tr>
<tr>
<td>Sweetpotato Whitefly (including strain B)</td>
<td>10 to 16 oz.</td>
<td>Foliar application to larvae and nymphs.</td>
</tr>
<tr>
<td>Greenhouse Whitefly</td>
<td>10 to 16 oz.</td>
<td>Foliar application to larvae and nymphs.</td>
</tr>
<tr>
<td>Others</td>
<td>10 to 16 oz.</td>
<td>Foliar application to nymphs/larvae.</td>
</tr>
</tbody>
</table>

### Application Rates for Whitefly and Other Greenhouse (including Lathe and Shade), Nursery and Interiorscape Pests

### Pests controlled by Azatin XL | Rate of Azatin XL per acre | Remarks |
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Aphids, such as:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cotton Aphid</td>
<td>10 to 16 oz.</td>
<td>Foliar application, for suppression only</td>
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<tr>
<td>Green Peach Aphid</td>
<td></td>
<td></td>
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<tr>
<td>Hop Aphid</td>
<td></td>
<td></td>
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<tr>
<td>Potato Aphid</td>
<td></td>
<td></td>
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<tr>
<td>Armyworms, such as:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beet Armyworm</td>
<td>5 to 16 oz.</td>
<td>Foliar application to larvae.</td>
</tr>
<tr>
<td>Fall Armyworm</td>
<td></td>
<td></td>
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<tr>
<td>Southern Armyworm</td>
<td></td>
<td></td>
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<tr>
<td>Yellow Striped Armyworm</td>
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<tr>
<td>Beetles, such as:</td>
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<tr>
<td>Colorado Potato Beetle</td>
<td>5 to 16 oz.</td>
<td>Foliar application to larvae.</td>
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<tr>
<td>Caterpillars, such as:</td>
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<tr>
<td>Corn Earworm</td>
<td>10 to 21 oz.</td>
<td>Foliar application to larvae.</td>
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<tr>
<td>Diamondback Moth</td>
<td>10 to 16 oz.</td>
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<tr>
<td>Imported Cabbageworm</td>
<td>5 to 16 oz.</td>
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<tr>
<td>Needl Orangeworm</td>
<td>10 to 21 oz.</td>
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<tr>
<td>Tobacco Budworm</td>
<td>5 to 16 oz.</td>
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<tr>
<td>Tobacco Hornworm</td>
<td>5 to 16 oz.</td>
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<tr>
<td>Tomato Fruitworm</td>
<td>5 to 16 oz.</td>
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<tr>
<td>Western Grapeleaf Skeletonizer</td>
<td>5 to 16 oz.</td>
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<tr>
<td>Cutworms, such as:</td>
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<tr>
<td>Citrus Cutworm</td>
<td>5 to 16 oz.</td>
<td>Foliar application to larvae.</td>
</tr>
<tr>
<td>Black Cutworm</td>
<td>5 to 10 oz.</td>
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<tr>
<td>Loopers, such as:</td>
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<tr>
<td>Cabbage Looper</td>
<td>5 to 10 oz.</td>
<td>Foliar application to larvae.</td>
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<tr>
<td>Soybean Looper</td>
<td></td>
<td></td>
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<tr>
<td>Leafminers, such as:</td>
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<tr>
<td>Citrus Leafminer</td>
<td>10 to 16 oz.</td>
<td>Foliar application to larvae. Use with oil.</td>
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<tr>
<td>Serrate Leafminer</td>
<td></td>
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<tr>
<td>Vegetable Leafminer</td>
<td></td>
<td></td>
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<tr>
<td>Leafhoppers, such as:</td>
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<tr>
<td>Gape Leafhopper</td>
<td>10 to 16 oz.</td>
<td>Foliar application to nymphs. Use equipment to target the underside of leaves.</td>
</tr>
<tr>
<td>Variegated Leafhopper</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Application Rates for Whitefly and Other Greenhouse (including Lathe and Shade), Nursery and Interiorscape Pests

When pest populations are high, use the higher label rates. Dilute solutions containing Azatin XL 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.

### 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 recommended 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 “Olympic’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.

### SPRAY EQUIPMENT

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

### 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 to 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:

**DRIY 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.

### WARRANTY

Olympic Horticultural Products Company 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
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