## Biological Insecticide, Miticide, and Nematicide

### ACTIVE INGREDIENT % by Wt.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>% by Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Azadirachtin</td>
<td>1.2%</td>
</tr>
<tr>
<td>OTHER INGREDIENTS</td>
<td>98.8%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>100.0%</td>
</tr>
</tbody>
</table>

Contains 0.0987 lb. azadirachtin per gallon.

### KEEP OUT OF REACH OF CHILDREN

**CAUTION**

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

**REPELLENT, ANTIFEEDANT AND INSECT GROWTH REGULATOR (IGR)**

INDOOR AND OUTDOOR VEGETABLES, ORNAMENTAL FLOWERS, TREES, SHRUBS AND PLANTS, INCLUDING PLANTS GROWN IN CONTAINERS, INTERIORSCAPES, HOME AND GARDEN USE.

**NET CONTENTS:** 4 ounce, 8 ounce, 16 ounce, or 32 ounce
**AzaMax™**
Biological Insecticide, Miticide, and Nematicide

**REPELLENT, ANTIFEEDANT AND INSECT GROWTH REGULATOR (IGR)**

INDOOR AND OUTDOOR VEGETABLES, ORNAMENTAL FLOWERS, TREES, SHRUBS AND PLANTS, INCLUDING PLANTS GROWN IN CONTAINERS, INTERIORSCAPES, HOME AND GARDEN USE.

**ACTIVE INGREDIENT:** % By Wt.
- Azadirachtin ........................................ 1.2%
- OTHER INGREDIENTS .................................. 98.8%
- **TOTAL 100.0%**

Contains 0.0987 lb. azadirachtin per gallon.

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**FOR ORGANIC PRODUCTION**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

| If inhaled | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call poison control center or doctor for further treatment advice. |
| If on skin or clothing | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |
| If in eyes | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. |
| If swallowed | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. |

Have the product container or label with you when calling a poison control center or doctor for further treatment advice. For medical emergencies involving this product, call toll free 1-888-478-0798.

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**USER SAFETY RECOMMENDATIONS**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

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**MODE OF ACTION:**

AzaMax® controls target pests on contact or by ingestion. The product acts on pests by way of repellence, anti-feedance, and interference with the molting process.

Azadirachtin, an insect growth regulator (IGR), mimics the pests' hormones and disrupts distinct stages of growth and development of insects and mites. The primary mode of action of azadirachtin is an interference with synthesis and metabolism of ecdyson and the juvenile hormone. Ecdyson is the molting hormone of insects, and azadirachtin can regulate growth leading to death before or during molting.

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**I. USES FOR ORNAMENTALS AND LANDSCAPE PLANTINGS**

| Ornamental Plants and Flowers including but not limited to: | Actinopteris, African violets*, ageratum, aglaonema, Algerian ivy, alamanda, alocasia, amaranthus, anthurium, aphelandra, arborvitae, Artemisia, aster, aucuba ilex, azalea, baby's breath, begonia, Boston fern, bougainvillea, boxwood, brachychile, cacti, calabrese, caladium, calathea, calendula, calla, camellia, carnation, ceanothus, chrysanthemum, cineraria, coleus, coburne, colonneaster, cyclamen, daffodil, dahlia, daisy, daylily, delphinium, dianthus, dieffenbachia, dogwood, dusty miller, Easter lily, English ivy, euphoria, fern, ficus, foliage plants, foxglove, freesia, fuchsia, gaillardia, gardenia, geranium, gerbera, gladiola, gloxinia, gypsophilla, hedera, hibiscus, hyacinth, hydrangea, illex, impatiens, iris, ivy, jasmine, lilac, lily, maidenhair fern, mandevilla, marigold, narcissus, nasturtium, orchid*, pansy, pelargonium, peony, peperomia, petunia, phlox, phlox, photinia, pink, pittosporum, poineettia*, pithos, portulaca, primrose, pyranthia, rhododendron, rose, rosemary, rubber plant, salvia, schefflera, sedum, sempervivum, snapdragon, spathiphyllum, stock, syngonium, tulip, verbena, vinca, wandering jew, yucca, zinnia |

*Caution is recommended when making applications to these species. Spotting of plant foliage and blossoms is possible.
Ornamental Trees and Shrubs including but not limited to:


This product is not intended for Commercial Use. Waxy bloom on certain ornamental plants may be reduced after an AzaMax™ application. Applications of AzaMax™ may remove the glaucus ‘blue’ coloring from evergreens such as Colorado blue spruce and Koster spruce.

PESTS CONTROLLED OR SUPPRESSED

Use AzaMax™ against the following pests.

### TARGET PEST SPECIES OF AzaMax™

#### HEMIPTERA AND HOMOPTERA

- Including but not limited to:
  - true bugs including boxelder bugs, chinch bugs, lygus bugs and stink bugs;
  - lacebugs; leafhoppers including grape leafhopper, spittlebug, potato leafhopper and variegated leafhopper;
  - mealy bugs including apple mealy bugs, citrus mealy bugs, grape mealy bugs;
  - whiteflies including greenhouse whitefly, silverleaf whitefly and sweet potato whitefly and woolly whitefly;
  - aphids including apple aphid, green peach aphid, melon aphid, pea aphid, potato aphid and rose aphid;
  - psyllids including pear psyllids and scales including black scale, brown soft scale, California red scale, coffee scale, olive scale, San Jose scale, and cottony cushion scale.

#### LEPIDOPTERA

- Including but not limited to:
  - moths including European pine shoot moth, pine tip moth and Tussock moth;
  - leafrollers including blueberry leafroller, filbert leafroller, fruittree leafroller, citrus leafminers, grape leafroller, oblique banded leafroller, omnivorous leafroller;
  - cutworms including black cutworm and citrus cutworm;
  - caterpillars and loopers including bagworms, budworms, cabbage looper, canker worms, case bearers, caseworms, corn earworm, diamondback moth, fruit moths, grapeleaf skeletonizer, gypsy moth, hornworms, imported cabbageworm, navel orangeworm, soybean looper, spruce budworm, tent caterpillar, tip moths, tent caterpillars, tobacco budworm, tobacco hornworm, tomato pinworm and tussock moth;
  - armyworms including beet armyworm, fall armyworm, lawn armyworm, southern armyworm and yellow striped armyworm;
  - webworms and leaf perforators.

#### COLEOPTERA

- Including but not limited to:
  - beetles, grubs and weevils including Asian long-horned beetle, bark beetles, black vine weevil, Colorado potato beetle, elm bark beetle, European chafers, flea beetles, Japanese beetle, June beetle, leaf beetles, Mexican bean beetle, Northern masked chafers, rose chafer and Southern masked chafer and twig girders.

#### DIPTERA

- Including but not limited to:
  - flies including Caribbean fruit fly, cherry maggots, crane fly;
  - fungus gnats, Hessian fly, oriental fruit fly, Mediterranean fruit fly, marsh crane flies, melon fly, shore fly and walnut husk fly;
  - leafminers including citrus leafminers and serpentine leafminers.

#### THYSANOPTERA

- Including but not limited to:
  - thrips including citrus thrips, flower thrips, gladiolus thrips, onion thrips, thrips palmi and Western flower thrips.

#### ACARINA

- Including but not limited to:
  - mites, red spider mites, brown mite, clover mites, conifer spider mite, European red mite, spruce spider mite, and two-spotted spider mite.

#### ORTHOPTERA

- Including but not limited to:
  - crickets; grasshoppers; locusts

#### HYMENOPTERA

- Including but not limited to:
  - sawflies including European sawflies, pear sawflies, redheaded pine sawflies, yellowheaded pin sawflies.

#### NEMATODA

Nematodes (suppression)

### SPRAY PREPARATION

AzaMax™ is an emulsifiable concentrate to be diluted with water. This product forms an emulsion and can separate upon extended or prolonged standing. Re-agitate to assure uniformity of the spray mixture.

Prepare only the volume needed for the intended application, and use the spray mixture within 24 hours of preparation.

### TANK MIXTURES

AzaMax™ is an emulsifiable concentrate and is compatible with commonly used pesticides and fertilizers. Always check the physical compatibility using a jar test in the correct proportions if needed. If a broader spectrum of control is required tank-mix AzaMax™ with insecticides or miticides. If a rapid knockdown of heavy populations is necessary, then include an effective contact insecticide/miticide in combination with AzaMax™.

Tank mixture recommendations are for use only in states where the companion product(s) and the application site are registered.

Always read and follow the directions for use, precautions and limitations for use on all product labels used in combination. Applications must follow the precautions and limitations of the most restrictive product label in the mixture. Do not exceed the dosage rates of any product.

Select the right companion products:

IPM uses a variety of control options including biological, chemical, and cultural practices. AzaMax™ is botanical with growth regulator effect on insects and mites. Companion products include pyrethroids, spinosyns, microbial toxins, and chloronicotinyls that can complement azadirachtin. Formulations of bifenthrin, spinosad, abamectins, and imidacloprid are effective for different pests. Select the product that has been proven to provide adequate performance for the pests you are trying to control.

### PHYSICAL INCOMPATIBILITY

Do not use AzaMax™ with Captan, Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Rayplex iron or other highly alkaline materials as they can cause phytotoxicity and/or reduced efficacy on some target pests. Tank-mix combinations with compounds known to be incompatible with oil-based formulations are not to be used or phytotoxicity may occur.

### APPLICATION EQUIPMENT

**Ground Equipment**

Apply AzaMax™ with hand-operated (manual) or power spray equipment suitable for low volume and/or high volume applications. Follow the recommendations of the equipment manufacturer when using backpack sprayers, hose-end sprayers, compression (pump-up) sprayers, and other sprayers suitable for foliar applications of insecticides.

### APPLICATION SCHEDULE

For the most effective control, apply the product when pests are expected to appear or as soon as possible after pests appear and are in immature stages. Spray at an interval of seven (7) to ten (10) days or as the situation warrants.
During high pest infestation levels or when canopy is dense use higher dosage (use) rates and increase the spray frequency. Spraying in the morning or evening hours is recommended. Repeat spraying if rain occurs within two to three hours of spraying. For additional guidance, consult with the state agricultural experiment station or local extension horticulturist/arborist for information on tactics and windows of application.

**FOLIAR APPLICATION RATES FOR ORNAMENTALS and LANDSCAPE PLANTINGS**

<table>
<thead>
<tr>
<th>USE</th>
<th>SPRAY CONCENTRATION%</th>
<th>AMOUNTS OF AZAMAX™</th>
<th>FLUID OUNCES PER GALLON</th>
</tr>
</thead>
<tbody>
<tr>
<td>Including trees, shrubs, flowers, conifers, evergreens, herbaceous ornamentals, foliage plants, container-grown ornamentals, plants and groundcovers</td>
<td>Lower rate ranges of 0.25 - 0.75% vol/vol:</td>
<td>0.32 - 1.0 fl. oz.</td>
<td></td>
</tr>
<tr>
<td>Medium rate ranges of 0.75 - 1.25% vol/vol:</td>
<td>1.00 - 1.60 fl. oz.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper rate ranges of 1.25 - 1.70% vol/vol:</td>
<td>1.60 - 2.18 fl. oz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DRENCH APPLICATION FOR INTERIORSCAPES AND FOR PLANTS GROWN IN CONTAINERS:**

Use AzaMax™ as a soil drench for effective control of soil-borne insect larvae, including soil-borne larvae of foliar pests, such as fungus gnats, nematodes, or soil borne thrips. When applying as a drench, avoid excessive leaching.

**II. USES FOR GARDEN CROPS, VEGETABLES, HERBS AND SPICES, FRUITS AND BERRIES**

**INSTRUCTIONS FOR GARDEN CROPS, VEGETABLES, HERBS AND SPICES, FRUITS, AND BERRIES**

- For the most effective control, spray the product as soon as possible after pests appear and are in immature stages.
- Spray at an interval of seven to ten days or as the situation warrants. During high pest infestation levels use higher label rates and increase the spray frequency.
- Spraying in the morning or evening hours is recommended.
- Repeat spraying if rain occurs within two to three hours of spraying.

**USE RATES**

Apply AzaMax™ as directed to any food or non-food crop up to and including the day of harvest, at a maximum rate of 1.33 fl. ozs. per 1,000 sq.ft. per application.

Apply AzaMax™ alone to food/garden crops on the day of harvest. Dilute this product with water at 0.5 - 4.0 tablespoons (Tbs) per gallon of water. For hose end sprayers, set the RATE PER GALLON at the dial setting of 1 to 4 Tbs. depending on the crop and pests. Use the lower RATE PER GALLON for low to moderate infestations and use the higher specified RATE PER GALLON for severe infestations.

**DILUTION TABLE FOR DRENCH APPLICATIONS**

<table>
<thead>
<tr>
<th>Gallons of Water</th>
<th>Amount of AzaMax™</th>
<th>Application Interval</th>
<th>Number of Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gallon</td>
<td>1 Tbs.</td>
<td>10 - 14 days</td>
<td>2 - 3</td>
</tr>
<tr>
<td>5 gallons</td>
<td>2.7 fl. oz.</td>
<td>10 - 14 days</td>
<td>2 - 3</td>
</tr>
<tr>
<td>10 gallons</td>
<td>5.4 fl. oz.</td>
<td>10 - 14 days</td>
<td>2 - 3</td>
</tr>
</tbody>
</table>

AzaMax™ can also be applied through sub-surface treatment equipment. Always follow manufacturer’s use directions.
## USE RATES FOR GARDEN CROPS, VEGETABLES, HERBS AND SPICES, BERRIES AND FRUIT (cont.)

<table>
<thead>
<tr>
<th>CROP</th>
<th>PESTS such as:</th>
<th>Fl.Ozs. of product per 1,000 Sq.Ft.</th>
<th>Tbs. of product per 1.0 gallon of water</th>
</tr>
</thead>
<tbody>
<tr>
<td>Legume Vegetables including but not limited to: Bean, Chickpea, Lentil, Pea</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
<td>0.29 - 0.96 fl.ozs.</td>
<td>2 Tbs. - 4 Tbs./gal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.29 - 0.96 fl.ozs.</td>
<td>2 Tbs. - 4 Tbs./gal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.24 - 0.96 fl.ozs.</td>
<td>1 Tbs. - 4 Tbs./gal</td>
</tr>
<tr>
<td>Bulb Vegetables including but not limited to: Garlic, Onion, Shallot</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
<td>0.29 - 0.96 fl.ozs.</td>
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<td>1 Tbs. - 4 Tbs./gal</td>
</tr>
<tr>
<td>Berries including but not limited to: Blackberry, Blueberry, Raspberry, Strawberry, others include: Boysenberry, Currants, Dewberry, Elderberry, Gooseberry, Loganberry</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
<td>0.29 - 0.96 fl.ozs.</td>
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<td>0.24 - 0.96 fl.ozs.</td>
<td>1 Tbs. - 4 Tbs./gal</td>
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<tr>
<td>Herbs and Spices including but not limited to: Chive, Dill, Fennel, Mustard, Sage, Sweet bay, others include: Anise, Balm, Basil, Black pepper, Borage, Caraway, Catnip, Chamomile, Coriander, Cumin, Curry leaf, Dandelion, Fennugreek, Hoehrou, Hyssop, Marjoram, Marigold, Mint, Nasturtium, Pennyroyal, Peppermint, Rosemary, Savory, Spearmint, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
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<tr>
<td>Nut Trees including but not limited to: Almond, Brazil nut, Filbert, Hickory nut, Pecan, Pistachios, Walnut</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
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<td>1 Tbs. - 4 Tbs./gal</td>
</tr>
<tr>
<td>Pome Fruits including but not limited to: Apple, Quince, or Pear (Comice varieties: DO NOT apply more than 24 fl oz/A. DO NOT apply after pink stage of flowering; test small areas of other varieties of pears for plant safety prior to full scale usage.)</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
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<td>Stone Fruits including but not limited to: Apricot, Cherry, Nectarine, Peach, Plum</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leafrollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
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<tr>
<td>Citrus Fruits including but not limited to: Grapefruit, Lemon, Lime, Orange others include: Citrus Citron, Mandarin (tangerine), Nectarine, Satsuma (orange mandarin), Tangerine</td>
<td>Beetles, Weevils, Thrips, True Bugs, Leafhoppers, Whiteflies, Aphids, Leaf rollers, Cutworms, Loopers, Armyworms, Flies, Mites</td>
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## STORAGE & DISPOSAL

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

**PESTICIDE STORAGE:**
Do not store this product above 105°F or below -15°F for extended periods of time. Keep container tightly closed and in original containers when not in use.

**PESTICIDE DISPOSAL:**
If empty: Do not refill or reuse this container. Offer for recycling if available.
If partly filled: Call your local waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

### NOTICE ON CONDITIONS OF SALE

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

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2-2008