

See inside for full instructions.



**8048.16**



# AzaGuard™

BOTANICAL INSECTICIDE / NEMATOCIDE

## FOR CONTROLLING AND REPELLING INSECTS

*For controlling and repelling insects such as:*

aphids  
armyworms  
beetles  
budworms  
cutworms

fungus gnats  
leafhoppers  
leafminers  
leafrollers  
lepidopterous larvae

loopers  
mushroom flies  
sawflies  
thrips  
webworms

whiteflies; and  
nematodes such  
as: dagger, golden,  
and root knot  
nematodes.

### FIRST AID

**If on skin:** Wash with plenty of soap and water. Get medical attention.

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention

**KEEP OUT OF REACH  
OF CHILDREN  
CAUTION**

### ACTIVE INGREDIENT:

Azadirachtin .....	3.00%
Inert Ingredients.....	97.00%
TOTAL.....	100.00%

*Contains 0.28 lb (128 grams)  
of azadirachtin per gallon*



- For use on turf grass, outdoor shrubs, trees and ornamentals
- For ornamental greenhouse and nursery use
- For mushroom house use
- For use on outdoor food crops

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Long-sleeved shirt and long pants:

Chemical-resistant (such as barrier laminate, butyl, nitrile, neoprene, polyvinyl chloride, or viton) gloves.

Socks and shoes

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.

#### USER SAFETY RECOMMENDATIONS

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

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters. This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product if bees are visiting the treatment area.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY  
Transportation: Chemtrec .....1-800-424-9300

#### 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 through any irrigation system unless the chemigation instructions on this label are followed. 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.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with 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, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard

and that involves contact with anything that has been treated, such as plants, soil, or water is:

Long-sleeved shirt and long pants

Chemical – resistant (such as barrier laminate, butyl, nitrile, neoprene,

polyvinyl chloride, or viton) gloves

Socks and shoes

### NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the WPS for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, 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.

### PRODUCT DESCRIPTION

AzaGuard is an emulsifiable concentrate containing 3.0% by weight azadirachtin. It has been evaluated on a wide variety of ornamental, forestry, and food crops. No phytotoxicity at recommended field rates has been observed. AzaGuard is an insect growth regulator and does not control adult insects. However, AzaGuard is also effective as a repellent towards some adult species, as detailed below.

### MODE OF ACTION

AzaGuard controls insects in the larval, pupal, and nymphal stages by interfering with the metabolism of ecdysone. Insects typically die between larval to larval, larval to pupal, nymph to nymph molts, or during adult eclosion.

### COMPATIBILITY

AzaGuard has been found to be compatible with the most commonly used insecticides, fungicides and fertilizers. Compatibility should be checked by using the correct proportion of the products in a small test container. Growers should then test the tank-mix combinations for possible adverse ef-

fects (such as settling out, flocculation, etc.) and for phytotoxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, a compatibility test is recommended for both new and previously used combinations. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use AzaGuard with Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Rayplex iron or other highly alkaline materials. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

When using AzaGuard in combination with other products, use AzaGuard at the rate, or half the rate, specified in the Use Rate Recommendation table. Follow the directions for use, precautions and limitations for use on all of the product labels used in the combination. Some suggested tank mix combinations are as follows:

AzaGuard plus non – phytotoxic crop oil\*

AzaGuard plus endosulfan\*

AzaGuard plus chlorpyrifos\*

AzaGuard plus acephate\*

AzaGuard plus *Bacillus thuringiensis*\* (BT)

AzaGuard plus bifenthrin\*

AzaGuard plus esfenvalerate\*

AzaGuard plus abamectin\*

AzaGuard plus diflubenzuron\*

AzaGuard plus pyrethrum + piperonyl butoxide (for fogging use)\*

\* Always follow the manufacturer's Directions for Use and Precautionary Statements.

### APPLICATION INSTRUCTIONS

#### READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

AzaGuard is exempt from tolerances and may be applied as directed to any food or non-food crop up to

and including the day of harvest at a rate not exceeding 22.5 fl. oz. (20 grams active ingredient) per acre per application.

**MIXING:** Shake well before mixing. Always use this product promptly after mixing with water. AzaGuard will break down in the spray solution if not used within 8 hours. Never allow tank mix to stand overnight. AzaGuard will break down in spray tank mixtures that have pH values exceeding 7.0. The recommended pH range is between 5.5 and 6.5. For optimum performance, a buffering agent may be used. When mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application.

Using the use tables below, determine the amount of AzaGuard required for the number of acres to be treated. To a clean spray tank add at least one half the water to be sprayed. Begin agitation and add the determined amount of AzaGuard. Add the remaining water and continue agitation.

AzaGuard disperses freely when added to water. Always use clean equipment. For uniform distribution on plant canopy and proper dilution, always ensure proper agitation in mixing tanks or vessels. When mixing with other agrichemicals, add solid constituents (such as wettable powders, water dispersible granules or micronutrients) last in the form of a slurry.

**APPLICATION METHOD AND EQUIPMENT:** AzaGuard can be applied as a foliar spray or a drench to soil or soil-less media (e.g., greenhouses and mushroom houses) to control insects and nematodes. When needed, soil drenches can also be used to control soil-borne pests, including soil-borne larvae of foliar insect pests. When applying as a drench, avoid excessive leaching. AzaGuard can also be applied through sub-surface soil treatment equipment (e.g. turf grass). To repel adult flies, apply through fogging equipment. Always follow equipment manufacturer's use directions.

AzaGuard may be applied using any powered or manual pesticide application equipment, which includes but is not restricted to: high-volume, low-volume, ultra-low volume, electrostatic, fogging, and chemigation. Follow the original manufacturer's recommendations when using these types of equipment.

**For optimum results, 2 to 3 applications made at 7 to 10 day intervals is recommended, unless otherwise specified.** Foliar applications should be made to both sides of leaves. In addition, a surfactant used as per the manufacturer's recommendations may improve product performance. The addition of a non – phytotoxic crop oil at rates not exceeding 1.0% (volume / volume) generally enhances insect control.

#### **AZAGUARD USE RATE RECOMMENDATIONS** **FOR KEY PESTS BY USE SITE**

AzaGuard is intended for use on outdoor plants and food crops, mushroom houses, plants grown indoors or in greenhouses, shade cloth, interiorscapes and nurseries. It can be used to control any of the following insects and nematodes.

Use the tables on the next page to determine the appropriate use rate for your site/pest combination. Rates are provided in ounces of AzaGuard per area or row-length. When infestation is heavy, or when plant canopy is dense, AzaGuard may be used at a rate up to twice (2X) that shown in the above table, not to exceed 22.5 oz AzaGuard/acre. When combining with other insecticides, use half the recommended rate of AzaGuard.

**USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS,  
[TREES, TURFGRASS, NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS]**

PEST	RATE oz. of AzaGuard/Acre	REMARKS
<b>WHITEFLIES</b> , such as: Greenhouse whiteflies, Silverleaf whiteflies, Woolly whiteflies	8	Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.
<b>LEAFMINERS</b> , such as: Azalea leafminers, Birch Leafminers, Citrus leafminers, Serpentine leafminers, Vegetable leafminers	10	Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.
<b>SCALES</b> , such as: Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales	10	Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.
<b>MEALY BUGS</b> , such as: Citrus mealybugs	10	Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.
<b>THRIPS</b> , such as: Citrus thrips, Onion thrips, Thrips palmi	10	Spray when pests first appear. Repeat every 5 to 7 days.
<b>APHIDS</b> , such as: Cotton aphids, Green peach aphids, Pea aphids, Potato aphids	10	Spray when pests first appear. <u>For food crops:</u> Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. <u>For non-food crops:</u> Repeat application every 5 to 7 days.
<b>PSYLLIDS</b> , such as: Pear psylla	8	Spray when pests first appear. <u>For food crops:</u> Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. <u>For non-food crops:</u> Repeat application every 5 to 7 days.

**USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS,  
[TREES, TURFGRASS, NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS]**

PEST	RATE oz. of AzaGuard/Acre	REMARKS
<b>LEAFHOPPERS</b> , such as: Grape leafhoppers	10	<p>Spray when pests first appear.  <u>For food crops:</u> Repeat application after 7-10 days.                      Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. <u>For non-food crops:</u>                      Repeat application every 5 to 7 days.</p>
<b>BUGS</b> , such as: Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs, Stink bugs	10	Spray nymphs early.
<b>FLIES</b> , such as: Blueberry maggots, Cherry maggots, Crane flies, Fruit flies, Midges, Onion maggots, Walnut husk flies	10	<p><u>For food crops:</u> Spray when pests first appear.  <u>For non-food crops:</u> Drench soil to kill larvae.</p>
<b>SAWFLIES</b> , such as: European pine sawflies, Yellow headed pine sawflies	10	Treat larvae early.
<b>CATERPILLARS</b> , such as: Armyworms, Artichoke plume moths, Bagworms, Bollworms, Budworms, Cabbage butterflies, Cabbage Loopers, Cankerworms, Caseworms, Corn earworms, Cutworms, Diamond-backed moths, Fruitworms, Grapeleaf skeletonizers, Gypsy moths, Hickory shuckworms, Hornworms, Imported cabbage worms, Leafperforators, Leafrollers, Melonworms, Navel Orangeworms, Oblique banded leafrollers, Omnivorous leafrollers, Oriental fruit moths, Pickle worms, Pine tip moths, Pinworms, Red-banded leaf rollers, Sod webworms, Soybean loopers, Tent caterpillars, Tobacco budworms, Tussock moths	8	<p>Spray when pests first appear.  <u>For food crops:</u> Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.  <u>For non-food crops:</u> Repeat application every 5 to 7 days.</p>
<b>MOLE CRICKETS</b>	10	Spray nymphs soon after egg hatch.

**USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS,  
(TREES, TURFGRASS, NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS)**

PEST	RATE oz. of AzaGuard/Acre	REMARKS
<b>BEETLES</b> , such as: Bark Beetles, Blueberry flea beetles, Boll weevils, Colorado potato beetles, Flea beetles, Japanese beetles, Leaf beetles, Mexican bean beetles, Pepper weevils, Phylloxera Rose Chafers, Twig girdlers	8	Spray when pests first appear. <u>For food crops:</u> Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. <u>For non-food crops:</u> Repeat application every 5 to 7 days.
<b>WEEVILS</b> , such as: Black vine weevils, Strawberry vine weevils	10	Make foliar applications to deter adult feeding. Make at least 3 to 4 applications 10 days apart.
<b>BORERS</b> , such as: Peach twig borers, Peachtree borers, Dogwood borers, Cranberry borers	10	Spray soon after egg hatch. <u>For food crops:</u> Use in combination with 0.25% - 1.0% non- phytotoxic crop oil in sufficient water to cover undersides of leaves.
<b>NEMATODES</b> , such as: Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes	15	Apply in sufficient amount of water to penetrate in the soil to a depth of 12 inches. Repeat applications every 3 or 4 weeks or as needed.

\* When infestation is heavy, or when plant canopy is dense, AzaGuard may be used at a rate up to twice (2X) that shown in the above table, not to exceed 22.5 oz/acre. When combining with other insecticides, half the rate of AzaGuard is recommended.

**USE RATES FOR MUSHROOMS**

PEST	RATE oz. of AzaGuard/1,000 sq. ft.	REMARKS
<b>MUSHROOM FLIES, NEMATODES, PHORID FLIES</b>	0.5	Apply as drench to the casing layer, media or compost. Make at least 4 to 5 applications 7 to 10 days apart.  To repel adults, apply with fogging equipment at first sign of activity.  For mushroom house use: mix into the casing layer, or into media during the spawn run. Can be applied between breaks until the final flush.

## For Use Indoors or in Greenhouses

Use the table below to determine the appropriate use rate for each pest. Foliar sprays for individual plants should thoroughly wet both sides of the leaves without causing runoff. Groups of potted plants should be sprayed at a rate of one gallon of finished spray for 500 square feet. When used as a drench apply 1 pint of finished spray for each gallon of soil in the pot.

USE RATES FOR ANY PLANT GROWN INDOORS OR IN GREENHOUSES, SHADECLOTH, INTERIORSCAPE AND NURSERIES		
PEST	RATE oz. of AzaGuard/100 gal water	REMARKS
<b>WHITEFLIES</b> , such as: Greenhouse whiteflies, Silverleaf whiteflies	10 for 50,000 sq. ft	Ensure good coverage to top and bottom of leaves against larvae and pupae. Can be applied after bract formation on poinsettias (test for phytotoxicity prior to large scale use).
<b>LEAFMINERS</b> , such as: Serpentine leafminers	10 for 50,000 sq. ft	Spray early. Make 2 to 3 applications in rotation with adulticides such as pyrethroids
<b>SOFT SCALES</b>	10 for 50,000 sq. ft	Use in combination with 0.5 – 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.
<b>MEALY BUGS</b>	8 for 40,000 sq. ft	Always use in combination with 0.5 – 1.0% non-phytotoxic crop oil.
<b>THRIPS</b> , such as: Western flower thrips	8 for 40,000 sq. ft	Spray when pests first appear. Repeat every 5 to 7 days.
<b>APHIDS</b> , such as: Green peach aphids, Pea aphids, Cotton aphids, Rose aphids	8 for 40,000 sq. ft	Spray when pests first appear. Addition of 0.5 – 1.0% non-phytotoxic crop oil will enhance efficacy.
<b>LACEWINGS</b> , such as: Azalea lacewings	8 for 40,000 sq. ft	Spray when pests first appear.
<b>FLIES</b> , such as: Crane flies, Fungus gnats, Shore flies	8 for 40,000 sq. ft	Add at least 1 pint of mixture per gallon pot as soil drench. Repeat application every 7 days for 3 weeks. For poinsettias, lilies and bedding plants, also make 1 application 10 to 15 days prior to shipping plants to prevent adult emergence.
<b>BORERS</b> , such as: Peachtree borers	10 for 50,000 sq. ft	Spray when pests first appear. Repeat as needed.

**USE RATES FOR ANY PLANT GROWN INDOORS OR IN GREENHOUSES, SHADECLOTH, INTERIORESCAPE AND NURSERIES**

PEST	RATE oz. of AzaGuard/100 gal water	REMARKS
<b>CATERPILLARS</b> , such as: Army worms, Bagworms, Cutworms, Leafhoppers, Leafrollers, Loopers, Spruce budworms, Webworms	8 for 40,000 sq. ft	Spray when pests first appear.
<b>BEETLES</b> , such as: Bark beetles, Flea beetles, Japanese beetles	10 for 50,000 sq. ft	Spray when pests first appear. Repeat as needed.
<b>WEEVILS</b> , such as: Black vine weevils, strawberry vine weevils	8 for 40,000 sq. ft	Make foliar applications to deter adult feeding. Drench soil at a rate of 1 pint per gallon pot during spring and fall periods to control larvae. Make at least 3 to 4 applications 10 days apart.

**USE SITES**

**AZAGUARD CAN BE USED ON:**

**GREENHOUSE FOOD CROPS**, such as: Brassica (cole) crops, cucurbits, eggplants, herbs and spices, legumes, peppers, tomatoes, and other miscellaneous crops grown in greenhouses.

**MUSHROOMS**, such as: Agaricus, enoki, maitake, oyster, shiitake, and other specialty mushrooms.

**FOOD CROPS, including:**

**Root and tuber vegetables**, such as: Artichokes, beets, carrots, ginger, horseradish, potatoes, radishes, rutabagas, sweet potatoes, turmeric, turnips, yams.

**Leafy vegetables (including Brassica Leafy Vegetables)**, such as: Amaranth, broccoli, Brussels sprouts, cabbage, cauliflower, celery, chervil, Chinese cabbage, collards, cress, endives, fennel, kale, kohlrabi, lettuce, mizuna, mustard greens, parsley, purslane, rape greens, rhubarb, spinach, Swiss chard.

**Legume vegetables**, such as: beans (field, kidney etc.), chickpeas, cowpeas, guar, jackbeans, lablab beans, lentils, peas, pigeon peas, soybeans, sword beans.

**Fruiting vegetables**, such as: Eggplants, ground cherries, pepinos, peppers, pimentos, tomatillos, tomatoes.

**Cucurbit vegetables**, such as: bitter melons, chayotes, Chinese wax gourds, citron melons, cucumbers, gherkins, gourds, muskmelons (such as cantaloupes, casabas, crenshaw etc.), pumpkins, squash, watermelons.

**Citrus fruits**, such as: Calamondins, citrus citrons, citrus hybrids, grapefruits, kumquats, lemons, limes, mandarins, oranges, pummelos, Satsuma mandarins.

**Pome fruits**, such as: Apples, crabapples, loquats, mayhaws, oriental pears, pears, quinces.

**Stone fruits**, such as: Apricots, cherries, nectarines, peaches, plums, prunes.

**Berries**, such as: Blackberries and caneberries, blueberries, currants, elderberries, gooseberries, huckleberries, loganberries, raspberries, strawberries, youngberries.

**Cereal grains**, such as: Barley, buckwheat, corn, millet, oats, popcorn, rice, rye, sorghum, teosintes, triticale hybrids, wheat, wild rice.

**Herbs and spices, including but not limited to:** Allspice, angelica, anise, annatto, balm, basil, black and white peppers, borage, burnet, chamomile, caper buds, cardamom, caraway, cassia, catnip, celery seeds, chervil, chives, cinnamon, clay, cloves, coriander (cilantro), costmary, cumin, curry leaf, dill, fennel, fenugreek, grains of paradise, horehound, hyssop, juniper berry, lavender, lemongrass, lovage, mace, marigolds, marjoram, mustard seeds, nasturium, nutmeg, parsley, pennyroyal, poppy seeds, rosemary, rue, saffron, sage, savory, sweet bay (bay leaf), tansy, tarragon, thyme, vanilla, wintergreen, woodruff, wormwood.

**Bulb vegetables, such as:** Garlic, leeks, onions, shallots.

**Nuts, such as:** Almonds, beechnuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, filberts, hickory nuts, lychee nuts, macadamias, pecans, pistachios, walnuts.

**Oilseed crops, such as:** Canola, castor, crambe, guar, jojoba, peanuts, rape, safflower, sesame, soybean, sunflower.

**Tropical fruits, such as:** Atemoyas, bananas, breadfruits, cherimoyas, durians, guavas, malangas, mangos, papayas, passionfruits, startfruits.

**Miscellaneous food and non-food crops, such as:** Asparagus, avocados, birdseed, cacao, coffee, edible flowers, feijoa, figs, ginseng, grapes, guayules, hops, kiwis, okras, olives, palms, papayas, pawpaws, persimmons, pineapples, rambutans, sugarcane, tamarillos, tea, tobacco, waterchestnuts, watercress.

**ORNAMENTAL PLANTS, such as:** African violets, ageratum, aster, aucuba, begonia, cacti, calendula, calla, carnation, ceanothus, chrysanthemum, cineraria, coleus, cotoneaster, cyclamen, daffodil, dahlia, delphinium, ficus, foliage plants, fuchsia, gardenia, geranium, gloxinia, hyacinth, hydrangea, iris, ivy, lily, maidenhair fern, marigold, narcissus, orchid, pansy, pelargonium, peony, phlox, pittosporum, poinsettia, pyracantha, rubber plant, snapdragon, stock, tulip, Wandering Jew, yew, yucca, zinnia.

**ORNAMENTAL TREES AND SHRUBS, such as:** Andromeda, arbovitae, ash, Austrian pine, azalea, beech, birch, birdsnest spruce, blue spruce, bougainvillea, boxwood, butternut, camellia, cedar, chamaecyparis, cherry, crabapple, Cypress,

dogwood, Douglas fir, elm, euonymus, firethorn, forsythia, hackberry, hawthorn, hemlock, hickory, holly, honeylocust, horse chestnut, ilex, juniper, larch, laurel, lilac, linden, London plane, magnolia, mandevilla, maple, mimosa, mountain ash, myrtle, oak, pachysandra, peach, pine, photinia, planetree, pines, poplar, privet, quince, rhododendron, roses, spruce, sycamore, white cedar, and white pine.

**TURF AND TURFGRASS, such as:** Bentgrass, Bermuda grass, bluegrass, centipede grass, fescue, ryegrass, St. Augustine, wheatgrass, zoysia grass

## CHEMIGATION OF AZAGUARD

### General Information

This product may be applied only through drip (trickle) or sprinkler (center pivot, lateral move, end tow, side roll, traveler, big gun, solid set, or hand move), flood (basin) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Dilute AzaGuard with water before introduction into the system; use the diluted mixture within 8 hours. Do not apply in irrigation water if the pH exceeds 7.0. The optimum pH for application is a range of 5.5 to 6.5. If needed, the pH of the irrigation water can be adjusted by use of a suitable buffering agent. Agitation is necessary. Apply at the rate recommended in the Directions for Use using sufficient water to achieve an even distribution within an 8 hour period. Do not apply AzaGuard at a rate that exceeds 20 grams active ingredient per acre (22.5 fl oz of AzaGuard). If applying AzaGuard in combination with other

products refer to the compatibility statement in the USE PRECAUTION section.

**OBSERVE THE FOLLOWING PRECAUTIONS IF YOUR CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of a year.

Chemigation systems connected to a public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the cases where there is not a water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speeds favor drift beyond the area intended for treatment.

**STATEMENTS CONCERNING THE OPERATION OF SPRINKLER CHEMIGATION; DRIP (TRICKLE); UTILIZING A PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM**

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow. The pesticide injection pipeline must contain a functional, automatic, quick – closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid – operated valve located on the intake side of the injection pump and connected to the system, interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

**STATEMENTS CONCERNING THE OPERATION OF FLOOD (BASIN) IRRIGATION UTILIZING GRAVITY FLOW OR PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM.**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements.

- a. The system must contain a functional interlocking check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

- b. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of the fluid back toward the injection pump.
- c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side to the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump, (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

### STORAGE AND DISPOSAL

**GENERAL:** Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Do not store this product above 100 degrees F or below 20 degrees F for extended periods of time. Keep containers tightly closed and in original containers 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 a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### IMPORTANT: PLEASE READ BEFORE USE

By using this product, the user accepts the following: **LIMITED WARRANTY:**

BioSafe Systems, LLC warrants that (a) this product conforms to the chemical description on its label; (b) this product is reasonably fit for the purposes stated on its label, subject to the inherent risks referred to herein, when used in accordance with its directions; and (c) that the directions, cautions and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and plants, and upon reports of field experience. Testing has not been performed on all varieties of food crops, and plants, in all states, or under all application, weather and crop conditions. There are no express warranties other than those set forth herein. BioSafe Systems, LLC neither makes nor intends, nor does it authorize any agent or representative to make, any other warranty, express or implied. BioSafe Systems, LLC expressly excludes and disclaims all implied warranties of merchantability, fitness for particular purpose, or any other warranty of quality of performance.

This warranty does not extend to, and the user shall be solely responsible for, any loss or damage that results from the use of this product in any manner that is inconsistent with this label's directions, or cautions.

User's exclusive remedy and BioSafe Systems, LLC or seller's exclusive liability for any claim loss, damage, or injury resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort, or otherwise, shall be limited, at BioSafe Systems, LLC option, to replacement, or repayment of the purchase price for, the quantity of product with respect to which damages are claimed. In no event shall BioSafe Systems, LLC or Seller be liable for special, indirect, or consequential damages resulting from the use or handling of this product.

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Always read and follow label directions before using.

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