

PM-14

Reg # 67450-1

199

1  
(FRONT PANEL)

Made From Only Pure  
Garlic and Water

The Contents of This  
Container Will Cover  
Up To \_\_\_\_\_ Acres.

American Biochemical Corporation

# Guardian Spray™ "The Nature of Things to Come" SM

Insect Repellent for Plants, Crops, and Trees

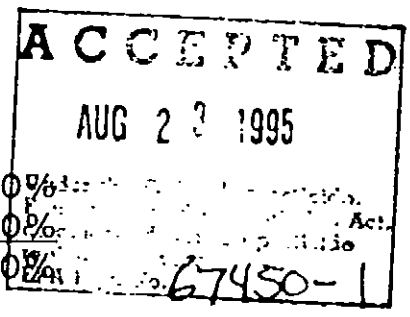
U.S. Standard Measure: \_\_\_\_\_

ACTIVE INGREDIENT:

Garlic Juice . . . . . 10.0%

INERT INGREDIENTS: . . . . . 90.0%

Total: . . . . . 100.0%



Does Not Persist in the Environment

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION    PRECAUCION**

Si usted no entienda la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**STATEMENT OF PRACTICAL TREATMENT**

Avoid contact with eyes  
If in eyes: Flush with plenty of water

EPA Reg. Number: 67450 1  
EPA Est. Number: 67450 CA 1  
Made in the USA / Patent Pending

299

2  
(BACK PANEL)

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Avoid contact with eyes.

#### PERSONAL PROTECTIVE EQUIPMENT:

Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage: Store in a cool (optimum temperature between 35° F and 90° F), dry place out of the reach of children. Store in original containers only. Keep out of direct sunlight.

In case of spill, isolate area. Confine spill by diking and absorb with sand, cat litter or commercial clay.

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

CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If the terms are not acceptable, return the unopened product container at once.

The Directions for Use are believed to be reliable and should be followed carefully. However, it is impossible 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 American Biochemical Corporation or the Seller. All such risks shall be assumed by the Buyer.

American Biochemical Corporation warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the Directions for Use subject to the inherent risks referred to above. American Biochemical Corporation makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall American Biochemical Corporation or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. American Biochemical and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing and signed by a duly authorized representative of American Biochemical Corporation.

MANUFACTURED BY:

American Biochemical Corporation  
4210 Cloud Way  
Paso Robles, California 93446

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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.

### AGRICULTURAL USE REQUIREMENTS

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.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 (PPE) and restricted entry interval (REI).'

Do not enter or allow workers entry into treated areas during the REI of 12 hours. PPE and work clothing 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: Coveralls, waterproof gloves, and shoes plus socks.

For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### USE RESTRICTIONS

Do not use this material if it cannot be applied according to the use patterns on this label.

Do not let mixture stand in tank overnight.

For repelling certain important insect pests. Not warranted to kill insects.

### SITES

**Pome Fruit Trees** (Apples, Pears, Crabapples, Mayhaws, and Quince): For Repelling Codling Moths, Appleworms, Maggots, Curculios, Aphids, Leafrollers, Leafminers, Leafhoppers, Plantbugs, Casebearers, Psylla, Mealybugs, Sawflies, Mites, and Scale.

**Stone Fruit Trees** (Apricots, Sweet and Sour Cherries, Nectarines, Peaches, and Plums): For Repelling Fruit Flies, Fruit Moths, Leafminers, Aphids, Borers, Beetles, and Mites.

**Nut Trees** (Almonds, Beech Nut, Brazil Nuts, Butternut, Chestnuts, Chinquapin, Filberts, Hickory Nuts, Macadamia Nuts, Pecans, and Walnuts): For Repelling Aphids, Mites, Weevils, Gall Wasps, Spittlebugs, Curculios, Webworms, Borers, Shuckworms, Leafminers, Beetles, Scale, Carpenterworms, Catocalas, Casebearers, Bud Moths, Phylloxera, Sawflies, Plantbugs, Twig Girdlers, and Walnut Caterpillars.

**Citrus** (Oranges, Grapefruits, Lemons, Limes, Calamondin, Tangelos, Kumquats, and Tangerines): For Repelling Aphids, Cutworms, Thrips, Leafrollers, Mites, Scales, and Whiteflies.

**Small Fruits and Berries** (Grapes, Blueberries, Raspberries, Strawberries, Blackberries, Boysenberries, Cranberries, Currants, Dewberries, Elderberries, Gooseberries, Huckleberries, Olallie Berries, and Youngberries): For Repelling Aphids, Mites, Maggots, Borers, Fruitworms, Weevils, Beetles, Leafrollers, Curculios, Scales, Plantbugs, Tortrix, Sawflies, Chafers, Leafhoppers, Tree Crickets, Stem Girdlers, Cambium and Leaf Miners, Mealybugs, Phylloxera, Rootworms, Ants, Cutworms, Earwigs, Slugs, Spittlebugs, Borers, Thrips, and Whiteflies.

**Legume Vegetables** (Beans including *Phaseolus spp.*, *Lupinus spp.*, and *Vigna spp.*, Broad Beans, Chick Peas, Guar, Jackbean, Lablab Beans, Lentils, Peas, and Soybeans): For Repelling Aphids, Beetles, Leafrollers, Thrips, Loopers, Earworms, Curculios, Cutworms, Borers, Lygus Bugs, Leafhoppers, Maggots, Mites, Plantbugs, and Whiteflies.

**Brassica Vegetables** (Broccoli, Brussel Sprouts, Cabbages, Chinese Mustard, Cauliflower, Collards, Kale, Kohlrabi, and Mustard Greens): For Repelling Aphids, Loopers, Caterpillars, Cutworms, Beetles, Maggots, Weevils, and Whiteflies.

**Cucurbit Crops** (Cucumbers, Gherkins, Gourds, Cantaloupe, Casaba Melons, Honeydew Melons, Mango Melons, Muskmelons, Summer and Winter Squash, and Watermelons): For Repelling Aphids, Leafhoppers, Loopers, Beetles, Leafminers, Pickleworms, Mites, Thrips, and Whiteflies.

**Fruiting Vegetables** (Tomatoes, Bell Peppers, Chile Peppers, Cooking Peppers, Pimentos, Sweet Peppers, Eggplant, Ground Cherry, Pepinos, and Tomatillo): For Repelling Aphids, Beetles, Loopers, Cutworms, Hornworms, Leafminers, Mites, Plantbugs, Fruitworms, Whiteflies, and Mealybugs.

**Peanuts**: For Repelling Aphids, Armyworms, Earworms, Cutworms, Leafhoppers, Thrips, and Mites.

**Kiwi**: For Repelling Japanese Beetles.

**Root and Tuber Vegetables** (Artichokes, Beets, Burdock, Carrots, Cassava, Chicory, Ginger, Ginseng, Horseradish, Parsley, Parsnip, Potatoes, Radish, Rutabaga, Salsify, Sweet Potatoes, Turnips, and Yams): For Repelling Rust Flies, Leafhoppers, Weevils, Armyworms, Beetles, Symphylans, Grasshoppers, Leafminers, Plantbugs, Psyllids, Slugs, Mites, Thrips, and Whiteflies.

**Cereal Grains** (Barley, Buckwheat, Corn, Millet, Oats, Popcorn, Rye, Wheat, and Wild Rice): For Repelling Earworms, Aphids, Rootworms, Beetles, Cutworms, Borers, Grasshoppers, Mites, Maggots, and Armyworms.

**Leafy Vegetables** (Celery, Cress, Endive, Fennel, Lettuce, Orach, Spinach, and Swiss Chard): For Repelling Aphids, Loopers, Earworms, Grasshoppers, Leafhoppers, Whiteflies, Sowbugs, and Leafminers.

**Bulb Vegetables** (Garlic, Leek, Onion, and Shallot): For Repelling Leafminers, Maggots, Armyworms, and Thrips.

**Cotton**: For Repelling Aphids, Armyworms, Bollworms, Boll Weevils, Fleahoppers, Lygus Bugs, Thrips, Mites, Whiteflies, Loopers, Cotton Leaf Perforator, Cutworms, and Saltmarsh Caterpillar.

**Ornamentals** (Trees, Shrubs, and Flowers): For Repelling Aphids, Mites, Leafminers, Whiteflies, Bagworms, Spittlebugs, Cutworms, Borers, Chafers, Beetles, Leafrollers, Maggots, Curculios, Leafhoppers, Plantbugs, Mealybugs, Sawflies, and Scales.

**Forage Crops** (Alfalfa, Clovers, Timothy, Vetch, and Grasses): For Repelling Aphids, Weevils, Spittlebugs, Caterpillars, Cutworms, Grasshoppers, Lygus Bugs, Leafhoppers, Mites, Thrips, and Armyworms.

**Herbs and Spices** (Anise, Balm, Basil, Borage, Burnet, Camomile, Caraway, Chives, Clary, Coriander, Costmary, Cumin, Curry Leaf, Dill, Italian and Sweet Fennel, Fenugreek, Horehound, Hyssop, Marjoram, Medicinal Herbs, Oregano, Parsley, Pennyroyal, Rosemary, Sage, Summer and Winter Savory, Sweet Bay, Tarragon, and Thyme): For Repelling Aphids, Armyworms, Loopers, Earworms, Leafminers, Caterpillars, Lygus Bugs, Beetles, Fleahoppers, Leafhoppers, Slugs, Borers, Plantbugs, Thrips, Grasshoppers, and Mites.

**Greenhouse Crops** (Ornamentals, Brassica Vegetables, Fruiting Vegetables, Leafy Vegetables, Legume Vegetables, Cucurbit Crops, Root and Tuber Vegetables, Bulb Vegetables, Herbs and Spices, Non-bearing Fruit and Nut Trees, and Non-bearing Small Fruits and Berries): For Repelling Aphids, Ants, Mites, Whiteflies, Hornworms, Mealybugs, Scales, Fungus Gnats, Fruit Flies, Grasshoppers, Leafminers, Slugs, Thrips, Armyworms, Beetles, Budworms, Cabbageworms, Weevils, Lace Bugs, Leafhoppers, Leafrollers, Borers, Spittlebugs, Sawflies, and Midges.

**Avocados**: For Repelling Aphids, Weevils, Beetles, Scales, Armyworms, Mites, Lace Bugs, Ants, Leafhoppers, Leafrollers, Loopers, Bagworms, Leafminers, Cankerworms, Caterpillars, Fruit Flies, Earworms, Pickleworm, Psyllids, Curculios, Mealybugs, Lygus Bugs, Tortrix, Thrips, and Whiteflies.

### MIXING DIRECTIONS

**Guardian Spray™** must be diluted prior to application. Shake container well. Product settles during shipping. **IMPORTANT:** Prior to adding Guardian Spray™ the applicator must buffer the mix tank to a pH between 5.0 to 6.0. Use only a non-ionic buffer. After diluting and mixing the product, agitate again before spraying to prevent settling.

The minimum dilution rate for **Guardian Spray™** is recommended at 11.6 fluid ounces of concentrate per acre, or one gallon per 11 acres, in a spray volume to provide sufficient coverage. The maximum recommended dilution is one part of the product to ten parts water. A spray volume of 5 to 50 gallons per acre with a minimum droplet size of 100 microns will provide the best results. Do not spray to the point of run-off.

**Guardian Spray™** should not be used with spreader-stickers, surfactants, adjuvants, or spray oils which coat the surface of the plant foliage and prevent absorption of the product. Surfactants or Penetrant Oils that reduce surface tension and provide better foliar absorption of the spray are recommended.

**Guardian Spray™** may be used in IPM programs in conjunction with:

- 1. Nutritional products for improved plant vigor and health.
- 2. Cultural practices to minimize insect infestations.
- 3. Tank mixtures with other insecticide products.

**IMPORTANT:** When using **Guardian Spray™** with foliar feed programs, do not use products containing high levels of phosphoric acid. If product contains phosphoric acid use at low label rates and apply to small test plots prior to full application.

Although **Guardian Spray™** concentrate has a strong garlic odor, the odor is minimized when the product is diluted. After application, the residual odor dissipates in minutes and is gone within a short period of time. **Guardian Spray™** will not leave any aftertaste on the crop.

When using **Guardian Spray™** in combination with other spray products, mix all the products at their intended ratio to spray volume in a glass container and check for separation or any other incompatibility. It is also recommended to try a small test plot for incompatibility and/or phytotoxicity if tank mixtures are being used for the first time.



## SPRAY TIMING

**Guardian Spray™** may be used to a maximum of 14 applications per growing season. **Guardian Spray™** may be used up to 12 hours before harvest.

Optimum conditions for applying **Guardian Spray™** should be when growth cycle is receptive to foliar uptake, bearing in mind extreme temperature can effect this process and can vary from crop to crop.

**RAIN FASTNESS:** Do not apply **Guardian Spray™** if rain is forecast or overhead irrigation is planned within 12 hours of an application.

## METHODS OF APPLICATION

**Guardian Spray™** may be applied by air or ground equipment. Fixed wing aircraft, helicopter, commercial ground sprayers, or back-pack sprayers are all suitable methods for product application.

**Guardian Spray™** is an insect repellent and is not an insecticide. To prevent infestation, make the first application at transplanting or foliar emergence. Repeat applications on a 10 to 14 day spray schedule to maintain the repellency effect. Infestation levels may be determined by leaf counts, sweep nets, traps, or other appropriate sampling techniques. Consult your local cooperative extension service to determine correct sampling procedures for the target pests.

In the event of insect infestations exceeding acceptable levels, **Guardian Spray™** should be used in combination with an appropriate insecticide to control the target pests and reduce the population back to a manageable level. The insecticide selected for tank mixture with **Guardian Spray™** should be used in accordance with its label. Never use insecticide selected below lowest recommended label rate. Once control is achieved, repeat applications with **Guardian Spray™** as a stand alone product on a 10 to 14 day spray schedule to maintain the repellency effect.