#### RESTRICTED USE PESTICIDE

#### **Toxic to Fish and Aquatic Organisms**

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

# WISDOM® FLOWABLE

For use to control listed insect and mite pests in greenhouses and nurseries, as well as on golf courses and on ornamental and turf in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, golf courses, sod farms and athletic fields.

#### **ACTIVE INGREDIENT:**

#### **Bifenthrin**

(2 methyl [1,1'-biphenyl] 3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-

TOTAL 100.0%

Wisdom Flowable contains 2/3 pound active ingredient per gallon.

# KEEP OUT OF REACH OF CHILDREN CAUTION

|  | CHCTION  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  | FIRST AID  |  |  |  |  |  |
| 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.                        |  |  |  |  |  |
|  | Do not give anything by mouth to an unconscious person.  |  |  |  |  |  |
| 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 a poison control center or doctor for further treatment advice.                                       |  |  |  |  |  |
| If on skin or  | Take off contaminated clothing.  |  |  |  |  |  |
| clothing:  |  |  |  |  |  |  |
|  | 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 the first 5 minutes, then continue rinsing eye. |  |  |  |  |  |  |
| Call a poison control center or doctor for treatment advice.                               |  |  |  |  |  |  |
|  | EMERGENCY INFORMATION  |  |  |  |  |  |
|  | ontainer or label with you when calling a poison control center or doctor, or going for treatment.         |  |  |  |  |  |
|  | WING EMERGENCIES, PHONE 24 HOURS A DAY:  |  |  |  |  |  |
| For Medical Emerg  | gencies, phone:  |  |  |  |  |  |
| For Transportation   | Emergencies, including spill, leak or fire, phone: CHEMTREC®1-800-424-9300                                 |  |  |  |  |  |
| For Product Use In   | formation phone : AMVAC <sup>®</sup>   |  |  |  |  |  |
|  | NOTE TO PHYSICIAN  |  |  |  |  |  |
| This product is a py   | rethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is |  |  |  |  |  |

symptomatic and supportive. Digestible fats, oils or alcohol may increase absorption and so should be avoided. SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-519

EPA Est. No. \_\_\_\_\_ As Marked on Container

4100 E. Washington Blvd. Los Angeles, CA 90023 U.S.A. 1-888-462-6822

<sup>\*</sup>Cis isomers 97% minimum, trans isomers 3% maximum.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**Caution:** Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

#### Applicators and Other Handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or Viton<sup>®</sup>.
- Shoes plus socks.

#### Mixers and Loaders must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton
- Shoes plus socks.
- Protective eyewear.

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**

#### Users should:

- 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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

#### **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.

Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds,

estuaries and commercial fish farm ponds (please see Special Restriction in the State of New York in the Application Recommendations section of this label). When treating tall trees (> 15 feet) from the ground with high pressure sprays or during any application with air assisted equipment (mist blower) do not apply within 150 feet of aquatic areas.

Do not apply this product through any kind of irrigation system.

Do not apply by air.

Apply with ground equipment only.

Do not apply when wind direction favors downwind drift towards nearby water bodies.

Do not apply when wind velocity exceeds 10 mph.

Avoid application when wind gusts approach 10 mph.

Do not apply when a temperature inversion exists.

Apply using the largest nozzle size compatible with adequate coverage.

Do not apply if rain is expected within 12 hours (or whatever time is necessary for the spray to dry).

Do not water treated area to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

- 1. Applications to soil or vegetation, as listed on this label, around structures;
- 2. Applications to lawns, turf, and other vegetation, as listed on this label:
- 3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
- 4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- 5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width:
- 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

#### 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 (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 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:

- Coveralls.
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.
- · Shoes plus socks.

#### 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 Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses. Keep children and pets off treated areas following application until the lawn has dried.

#### APPLICATION INSTRUCTIONS

Wisdom Flowable formulation mixes readily with water and other aqueous carriers, and controls listed insects and mites on ornamentals, trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around residential dwellings, parks, institutional, public, commercial and industrial buildings, recreational, athletic fields, home lawns, golf courses and sod farms. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

Wisdom Flowable may be tank-mixed with other products, including insect growth regulators. When tank mixing Wisdom Flowable with other products, observe all precautions and limitations on each separate product label. The physical compatibility of Wisdom Flowable may vary with different sources of pesticide products and local cultural practices. Any tank mixtures which have not been previously tested should be prepared on a small scale (pint or quart jar) using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. Note: If the tank mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

**Maximum rates (Except Nursery)**: Do not apply more than 0.1 lb. ai/acre (20 fl. oz. Wisdom Flowable) in a single application, no more than 0.2 lb. ai/acre/year (40 fl. oz. Wisdom Flowable) for outdoor applications.

Note: For large infestations of ants, imported fire ants, and mole crickets, a single application of 0.2 lb. ai/acre (40 fl. oz. Wisdom Flowable) may be applied once per year.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

#### **New York State Restrictions:**

#### NOT FOR USE ON SOD FARMS IN THE STATE OF NEW YORK.

In New York State, this product may not be applied to turf within 100 feet of a coastal marsh (or of a water body [lake, pond, river, stream, wetland, or drainage ditch]).

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Applications: Landscape Ornamentals, Greenhouses, Nurseries, Sod Farms, Golf Courses and Home Lawn Uses (Including Interiorscapes, Plantscapes, and Ornamental Plantings Grown for Aesthetic Purpose).

## APPLICATION RATES FOR LANDSCAPE ORNAMENTALS AND GREENHOUSES

| Pest   | Rate lb. ai/          | Rate oz./           | Comments   |
|--|-----------------------|---------------------|--|
| 1 650  |                       |                     | Commence   |
| Ants Aphids Bagworms Blackvine Weevil Brown Soft Scales Broad Mites Budworms California Red Scale (Crawlers) Centipedes Clover Mites Crickets Cutworms Earwigs Elm Leaf Beetles Fall Webworms Flea Beetles Fungus Gnats Grasshoppers Lacebugs Leafhoppers Leaf Feeding Caterpillars Mealybugs Millipedes Orchid Weevil Pillbugs Pine Needle Scales (crawlers) Plant Bugs (incl. Lygus spp.) San Jose Scales (crawlers) Sowbugs Spiders Tent Caterpillars Tip Moths Weevils | 10 gal. 0.004 to 0.02 | 10 gal. 0.80 to 4.0 | Apply the specified rate of Wisdom Flowable as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage area increases.  To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.  To control scale crawlers and twig borers: Treat trunks, stems, and twigs in addition to plant foliage.  Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated prior to application of the entire planting.  Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance. |
| Whiteflies European Crane Flies  | 0.005                 | 1.0                 |  |
| Citrus Thrips Beet Armyworm European Red Mite Leafrollers Spider Mites Thrips  | 0.006 to 0.02         | 1.2 to 4.0          |  |
| Twig Borers Japanese Beetles (adult) Leafminers Pecan Leaf Scorch Mite   | 0.01 to 0.02          | 2.0 to 4.0          |  |

**Maximum Nursery Rates**: Do not apply more than 0.2 lb. ai/acre (40 fl. oz. of Wisdom Flowable) in a single application or per year for outdoor applications.

#### **Nursery Dilution Chart**

| Application | Application | Fluid Ounces* of Wisdom Flowable           |         |         |         |
|-------------|-------------|--|---------|---------|---------|
| Volume      | Rate        | Diluted to these Volumes of Finished Spray |         |         |         |
| Gallons Per | Pounds AI   | 1  | 25      | 50      | 100     |
| Acre        | Per Acre    | Gallon                                     | Gallons | Gallons | Gallons |
| 50          | 0.025       | 0.1  | 2.5     | 5.0     | 10.0    |
| 50          | 0.05        | 0.2  | 5.0     | 10.0    | 20.0    |
| 50          | 0.1         | 0.4  | 10.0    | 20.0    | 40.0    |
| 50          | 0.2         | 0.8  | 20.0    | 40.0    | 80.0    |
| 100         | 0.025       | 0.05                                       | 1.25    | 2.5     | 5.0     |
| 100         | 0.05        | 0.1  | 2.5     | 5.0     | 10.0    |
| 100         | 0.1         | 0.2  | 5.0     | 10.0    | 20.0    |
| 100         | 0.2         | 0.4  | 10.0    | 20.0    | 40.0    |
| 150         | 0.025       | 0.03                                       | 0.83    | 1.67    | 3.3     |
| 150         | 0.05        | 0.07                                       | 1.67    | 3.33    | 6.7     |
| 150         | 0.1         | 0.133                                      | 3.33    | 6.67    | 13.3    |
| 150         | 0.2         | 0.266                                      | 6.67    | 13.33   | 26.7    |
| 200         | 0.025       | 0.025                                      | 0.63    | 1.25    | 2.5     |
| 200         | 0.05        | 0.05                                       | 1.25    | 2.5     | 5.0     |
| 200         | 0.1         | 0.1  | 2.5     | 5.0     | 10.0    |
| 200         | 0.2         | 0.2  | 5.0     | 10.0    | 20.0    |
| 250         | 0.025       |  | 0.5     | 1.0     | 2.0     |
| 250         | 0.05        |  | 1.0     | 2.0     | 4.0     |
| 250         | 0.1         |  | 2.0     | 4.0     | 8.0     |
| 250         | 0.2         |  | 4.0     | 8.0     | 16.0    |
| 300         | 0.025       |  | 0.42    | 0.83    | 1.7     |
| 300         | 0.05        |  | 0.83    | 1.67    | 3.3     |
| 300         | 0.1         |  | 1.67    | 3.33    | 6.7     |
| 300         | 0.2         |  | 3.33    | 6.67    | 13.3    |

<sup>\*</sup>To convert to milliliters, multiply by 29.57.

Do not use household utensils to measure Wisdom Flowable.

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture: The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing Wisdom Flowable.

(7.9)(fl. oz. of Wisdom Flowable <u>added to tank</u>) (Gallons of finished spray mix)(128)

= Percent active ingredient of spray

<sup>1</sup> fl. oz. = 29.57 ml = 2 tablespoons = 6 teaspoons.

#### **Turf Dilution Chart**

| Application      | Application | Fluid Ounces* of Wisdom Flowable Diluted to these Volumes of Finished |         |         |         |         |
|------------------|-------------|---|---------|---------|---------|---------|
| Volume           | Rate        | Spray   |         |         |         |         |
| Gallons Per      | Pounds      | 1   | 10      | 25      | 50      | 100     |
| 1,000 sq. ft.    | AI/Acre     | Gallon  | Gallons | Gallons | Gallons | Gallons |
| 0.5              | 0.05        | 0.5   | 5.0     | 12.5    | 25.0    | 50.0    |
| 0.5              | 0.1         | 1.0   | 10.0    | 25.0    | 50.0    | 100.0   |
| 0.5              | 0.2         | 2.0   | 20.0    | 50.0    | 100.0   | 200.0   |
| 0.75             | 0.05        | 0.33  | 3.33    | 8.33    | 16.67   | 33.33   |
| 0.75             | 0.1         | 0.67  | 6.67    | 16.67   | 33.33   | 66.67   |
| 0.75             | 0.2         | 1.33  | 13.33   | 33.33   | 66.67   | 133.33  |
| 1                | 0.05        | 0.25  | 2.5     | 6.25    | 12.5    | 25.0    |
| 1                | 0.1         | 0.5   | 5.0     | 12.5    | 25.0    | 50.0    |
| 1                | 0.2         | 1.0   | 10.0    | 25.0    | 50.0    | 100.0   |
| 1.5              | 0.05        | 0.17  | 1.67    | 4.17    | 8.33    | 16.67   |
| 1.5              | 0.1         | 0.33  | 3.33    | 8.33    | 16.67   | 33.33   |
| 1.5              | 0.2         | 0.67  | 6.67    | 16.67   | 33.33   | 66.67   |
| 2                | 0.05        | 0.13  | 1.25    | 3.13    | 6.25    | 12.5    |
| 2                | 0.1         | 0.25  | 2.5     | 6.25    | 12.5    | 25.0    |
| 2                | 0.2         | 0.5   | 5.0     | 12.5    | 25.0    | 50.0    |
| 2.3 <sup>a</sup> | 0.05        | 0.11  | 1.09    | 2.72    | 5.43    | 10.87   |
| 2.3 <sup>a</sup> | 0.1         | 0.22  | 2.17    | 5.43    | 10.87   | 21.74   |
| 2.3 <sup>a</sup> | 0.2         | 0.43  | 4.35    | 10.87   | 21.74   | 43.48   |
| 3                | 0.05        |   | 0.83    | 2.09    | 4.17    | 8.33    |
| 3                | 0.1         | 0.17  | 1.66    | 4.17    | 8.33    | 16.67   |
| 3                | 0.2         | 0.33  | 3.33    | 8.33    | 16.67   | 33.33   |
| 4                | 0.05        |   | 0.63    | 1.56    | 3.13    | 6.25    |
| 4                | 0.1         | 0.13  | 1.25    | 3.13    | 6.25    | 12.5    |
| 4                | 0.2         | 0.25  | 2.5     | 6.25    | 12.5    | 25.0    |

<sup>\*</sup>To convert to milliliters, multiply by 29.57.

Do not use household utensils to measure Wisdom Flowable.

### Applications: Grass Areas (including golf courses, sod farms, home lawns, lawn areas around parks, institutional, public, commercial and industrial buildings, recreational and athletic fields).

Apply Wisdom Flowable as a surface or sub-surface treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense and/or long grass foliage.

For low volume applications, less than 2 gallons/1000 square feet, immediate irrigate treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests including mole crickets.

**Application to Home Lawns:** Apply Wisdom Flowable as a broadcast treatment in 2 to 10 gallons of carrier per 1,000 square feet. Use higher volumes to get uniform coverage when treating dense grass foliage.

<sup>&</sup>lt;sup>a</sup> 100 gallons per acre.

<sup>1</sup> fl. oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

#### LAWN APPLICATION RATES

| Pest                     | Wisdom Flowable                    | Comments                                     |
|--------------------------|------------------------------------|--|
| Ants                     | 0.23 to 0.46 oz. per 1,000 sq. ft. | *For control of over-wintered Mole Crickets  |
| Armyworms                |                                    | apply Wisdom Flowable at the lower rate      |
| Bluegrass Billbugs       | -or-                               | early Spring. For the control of adult Mole  |
| Chinchbugs               |                                    | Crickets in late-Summer or early Fall apply  |
| Crane Flies              | 10 to 20 oz. per Acre              | the higher rate.                             |
| Crickets (Mole)*         |                                    |  |
| Cutworms                 | -or-                               | To enhance control a non-ionic surfactant or |
| Earwigs                  |                                    | a silicon based surfactant (0.25% w/v) may   |
| Fall Webworms            | 0.05 to 0.1 lbs. AI per Acre       | be applied as a tank-mix for the control of  |
| Fleas                    |                                    | late Summer or Fall Adult Mole Crickets.     |
| Grasshoppers             |                                    | For best results irrigate immediately after  |
| Mites                    |                                    | application with a minimum of 0.25 inches    |
| Sod Webworms             |                                    | of water.                                    |
| Ticks                    |                                    |  |
| Imported Fire Ants       | 0.46 to 0.92 oz. per 1,000 sq. ft. |  |
| Japanese Beetles (adult) |                                    |  |
|                          | -or-                               |  |
|                          | 20. 40                             |  |
|                          | 20 to 40 oz. per Acre              |  |

#### **Imported Fire Ant Quarantine Treatment**

Against Imported Fire Ants (IFA) in Potting Media (including balled and conainerized nursery grown ornamental trees, shrubs, plants, flowers, conifers, bushes, Christmas trees, and non-bearing fruit and nut trees). Wisdom Flowable is approved and can be used in accordance with the USDA Imported Fire Ant Quarantine Program. Wisdom Flowable may be applied either soil incorporated, as a topical application, or as a high volume drench treatment.

**Soil Incorporation:** Incorporate the appropriate volume of Wisdom Flowable (see table below) per cubic yard of potting media by diluting it in water (typically 1 quart to 1 gallon per cubic yard of media) and sprinkling or spraying it onto the media. The applications are based on the dry bulk density of the potting media. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

| Rate Wisdom<br>Flowable in | Wisdom Flowable/Gallons of Finished Spray |         |         |          |           |
|----------------------------|---|---------|---------|----------|-----------|
| oz. (lbs. AI)/10<br>gals.  | 1 gal.                                    | 3 gals. | 5 gals. | 25 gals. | 100 gals. |
| 0.80<br>(0.004)            |   | 1/4     | 1/2     | 2        | 8         |
| 1.20<br>(0.006)            | 1/8                                       | 1/3     | 2/3     | 3        | 12        |
| 2.0<br>(0.010)             | 1/4                                       | 2/3     | 1       | 5        | 20        |
| 4.0<br>(0.020)             | 1/2                                       | 1 1/3   | 2       | 10       | 40        |

Soil Incorporation Rate of Wisdom Flowable for Control of IFA in Potting Media

| Potting Media Bulk Density (lbs. cubic yard) | Fluid Ounces of Wisdom Flowable in one cubic yard |
|--|---|
| 200  | 1.9   |
| 400  | 3.8   |
| 600  | 5.7   |
| 800  | 7.6   |
| 1000   | 9.5   |
| 1200   | 11.4  |
| 1400   | 13.3  |

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

**Topical Application:** Mix Wisdom Flowable in 1,000 ounces of water based on container size and bulk density of the potting media (see table below). Apply one (1) ounce of the mix to each container evenly distributed over the surface of the potting media. Irrigate all treated containers with 1.5 inches of water following application. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

Topical Drench Application Rates of Wisdom Flowable for Control of IFA in Potting Media

| Potting Media Bulk Density |                 | of Wisdom Flowable ounces of water |
|----------------------------|-----------------|------------------------------------|
| (lbs. cubic yard)          | 3 Qt. Container | 4 Qt. Container                    |
| 200                        | 3.6             | 5.2                                |
| 400                        | 7.2             | 10.4                               |
| 600                        | 10.8            | 15.6                               |
| 800                        | 14,4            | 20.8                               |
| 1000                       | 18.0            | 26.0                               |
| 1200                       | 21.6            | 31.2                               |
| 1400                       | 25.2            | 36.4                               |

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

**High Volume Drench:** Apply Wisdom Flowable as a high volume drench by mixing the appropriate amount of product based on the bulk density in 100 gallons of water (see table below). Apply mix to individual containers to the point of saturation. The amount of mix used for each plant is generally 1/5 the volume of the container. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

High Drench Application Rate of Wisdom Flowable for Control of IFA in Potting Media

| Potting Media Bulk Density (lbs. cubic yard) | Fluid Ounces of Wisdom Flowable in 100 Gallons |
|--|--|
| 200  | 2.4  |
| 400  | 4.8  |
| 600  | 7.2  |
| 800  | 9.6  |
| 1000   | 12.0   |
| 1200   | 14.4   |
| 1400   | 16.8   |

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

#### **Larval Control In Potting Media of Containerized Plants**

Black Vine Weevil Larval Control – Preventative Treatment – Topical Drench: For preventative control of black vine weevil larvae in containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb. AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for conainers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Diluting 10 fluid ounces of Wisdom Flowable per 100 gallons and applying 8 fluid ounces of finished spray per 6 inch (diameter) container will provide black vine weevil larval control for one growing season when the application is made in the spring. Diluting 20 to 40 fluid ounces of Wisdom Flowable per 100 gallons and applying 8 fluid ounces of finished spray per 6 inch (diameter) container will provide black vine weevil larval control for two growing seasons when the application is made in the spring.

White Grub Control – Preventative Treatment – Topical Drench: For preventative control of white grubs (including Japanese beetle, oriental beetle and European chafer) in containerized plants, dilute Wisdom Flowable at the rate of 40 to 80 fl. ozs. (0.2 to 0.4 lb. AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for conainers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Use the higher application rate for a longer period of control.

**Black Vine Weevil and White Grub Larval Control – Preventative Treatment – Media Incorporation:** For preventative control of black vine weevil and white grub larvae in containerized plants, incorporate the appropriate volume of Wisdom Flowable (see table below) per cubic yard of potting media by diluting it in water (typically 1 quart to 1 gallon per cubic yard of media) and sprinkling or spraying it onto the media. Use the higher application rates for longer periods of control.

| Potting Media   | Fluid Ounces of Wisdom Flowable in one cubic yard |        |        |        |  |
|-----------------|---|--------|--------|--------|--|
| Bulk Density    |   |        |        |        |  |
| (lbs. per cubic |   |        |        |        |  |
| yard)           | 10 PPM  | 15 PPM | 20 PPM | 25 PPM |  |
| 200             | 0.4   | 0.6    | 0.8    | 1.0    |  |
| 300             | 0.6   | 0.9    | 1.2    | 1.5    |  |
| 400             | 0.8   | 1.2    | 1.6    | 2.0    |  |
| 500             | 1.0   | 1.5    | 2.0    | 2.5    |  |
| 600             | 1.2   | 1.8    | 2.4    | 3.0    |  |
| 700             | 1.4   | 2.1    | 2.8    | 3.5    |  |
| 800             | 1.6   | 2.4    | 3.2    | 4.0    |  |
| 900             | 1.8   | 2.7    | 3.6    | 4.5    |  |
| 1000            | 2.0   | 3.0    | 4.0    | 5.0    |  |

The application rates listed above are based on the dry bulk density of the potting media. Use proportional volumes of Wisdom Flowable for potting media with dry bulk densities that are not listed above.

**Black Vine Weevil Larval Control – Curative Treatment – Topical Drench:** To control black vine weevil larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb. AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

**Bare-root Treatment of Preventative Root Weevil Larval Control:** To protect treated roots of field grown nursery stock from feeding by rootweevil larvae, dilute one gallon of Wisdom Flowable in 100 gallons of water and treat the bare roots of plants that are being transplanted into the field either by dipping the roots into the insecticide solution for ten seconds or by spraying the insecticide solution onto the roots.

*Diaprepes* Weevil Larval Control – Curative Treatment – Topical Drench: To control *Diaprepes* weevil larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb. AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

**Fungus Gnat Larval Control – Preventative Treatment – Topical Drench:** For preventative control of fungus gnat larvae in containerized plants, dilute Wisdom Flowable at the rate of 20 to 40 fl. ozs. (0.1 to 0.2 lb. AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fl. ozs. of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Use the higher application rate for a longer period of control.

**Fungus Gnat Larval Control – Curative Treatment – Topical Drench:** To control fungus gnat larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb. AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call AMVAC: 1-888-462-6822.

**To confine spill**: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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