

# 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.



SPECIMEN

# RESPECT<sup>®</sup>

INSECTICIDE

**Active Ingredient:**

\* S-Cyano (3-phenoxyphenyl)methyl (+) cis/trans 3-(2,2-dichloroethenyl)-  
2,2 dimethylcyclopropane carboxylate\*\* ..... 9.6%

**Inert Ingredients\*\*\*:** ..... 90.4%

**Total:** ..... 100.0%

\* Contains 0.8 pound active ingredient per gallon

\*\* Cis/trans ratio: Max. 55% (±) cis and min. 45% (±) trans

\*\*\* Contains petroleum distillates

U.S. Patent No. Pending

**EPA Reg. No. 279-3249-7969**

**EPA Est. No.**

## KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende 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.)

See inside for complete **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific crop and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call FMC day or night 1-800-331-3148.**

**Net Contents:**

BASF Corporation  
26 Davis Drive, Research Triangle Park, NC 27709

## FIRST AID

|                               |   |
|-------------------------------|---|
| <b>If swallowed</b>           | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul> |
| <b>If on skin or clothing</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |
| <b>If in eyes</b>             | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |

## HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact FMC at 1-800-331-3148 for emergency medical treatment information.

**Note to Physician:** Vomiting should be supervised by a physician or the professional staff because of the possible pulmonary damages by aspiration of the solvent.

**For Emergency Assistance call FMC: 1-800-331-3148.**

**See other panels for additional precautionary information.**

## Precautionary Statements

### Hazards to Humans and Domestic Animals

**WARNING.** May be fatal if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

### 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 G** on an EPA chemical resistance category selection chart.

**Handlers who may be exposed to the dilute through application or other tasks must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile, butyl, neoprene, and/or barrier laminate
- Shoes plus socks

**Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:**

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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.

### Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates, oysters and shrimp. **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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment washwaters.

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 it to drift to blooming crops if bees are visiting the treatment area.

### Physical/Chemical Hazards

**DO NOT** use or store near heat or open flame.

## Directions For Use

### RESTRICTED USE PESTICIDE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

**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 agricultural 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 resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

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

**DO NOT** enter or allow worker entry into 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 viton
- Shoes plus socks

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed, or other pesticides or fertilizers by storage and disposal.

### Pesticide Storage

**DO NOT** freeze. 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

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

Call CHEMTREC 1-800-424-9300  
(Transportation and Spills)

**To Confine Spill:** Dike surrounding area or absorb with sand, cat litter, or commercial clay. Place damaged package in a holding container. Identify contents.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

### Container Handling

**Nonrefillable Container. DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying.

#### Triple rinse as follows for containers

**equal to 5 gallons or less:** 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 1/4 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.

#### Triple rinse as follows for containers

**greater than 5 gallons:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or reconditioning if appropriate, 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.

(continued)

## STORAGE AND DISPOSAL *(continued)*

### Container Handling *(continued)*

**Refillable/Returnable Container.** Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or reconditioning if appropriate, 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.

### Chemigation Use Directions

Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. **DO NOT** apply this product through any other type of irrigation system. **DO NOT** connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system.

Crop injury, lack of effectiveness, or illegal residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. 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.

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 backflow.

The pesticide injection pipeline must also 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 which 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.

**Respect® insecticide** should be applied continuously for the duration of the water application. **Respect** should be diluted in sufficient volume to ensure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the target pest. Agitation is not required when a suitable diluent is used.

### BUFFER ZONES

#### Vegetative Buffer Zones

Construct and maintain a minimum 10-foot-wide vegetative filter strip of grass or other permanent vegetation between the field edge and down gradient aquatic habitat (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds).

Only apply products containing zeta-cypermethrin onto fields where a maintained vegetative buffer strip of at least 10 feet exists between the field and down gradient aquatic habitat.

For guidance, refer to the following publication for information on constructing and maintaining effective buffers: *Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. USDA, NRCS. 2000. Fort Worth, Texas. 21pp.* <http://www.in.nrcs.usda.gov/technical/agronomy/new-conbuf.pdf>.

#### Buffer Zone for Ground Application (groundboom, overhead chemigation, or airblast)

**DO NOT** apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

#### Buffer Zone for ULV Aerial Application

**DO NOT** apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

#### Buffer Zone for Non-ULV Aerial Application

**DO NOT** apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, and commercial fish ponds).

### SPRAY DRIFT REQUIREMENTS

#### Wind Direction and Speed

Only apply this product if the wind direction favors on-target deposition. **DO NOT** apply when the wind velocity exceeds 15 mph.

## Temperature Inversion

**DO NOT** make aerial or ground applications into temperature inversions. Inversions are characterized by stable air and increasing temperatures with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

## Droplet Size

Use only medium or coarser spray nozzles (for ground and non-ULV aerial application) according to ASAE (S572) definition for standard nozzles. In conditions of low humidity and high temperatures, applicators should use a coarser droplet size.

## Additional Requirements for Ground Applications

- Wind speed must be adjacent to the application site on the upwind side, immediately prior to application.
- For groundboom applications, apply using a nozzle height of no more than 4 feet above the ground or crop canopy.
- For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.

## Additional Requirements for Aerial Applications

- The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 80% rotor diameter.
- Flight speed and nozzle orientation must be considered in determining droplet size.
- Spray must be released at the lowest height consistent with pest control and flight safety. **DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.
- When applications are made with a crosswind, the swath will be displaced downwind. The applicator must compensate for this displacement at the downwind edge of the application area by adjusting the path of the aircraft upwind.

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## General Instructions

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Use low rate under light-to-moderate infestation. Higher rates should be used under heavy insect pressure. The rate of application is variable according to insect pressure, timing of spray, and field scouting.

## Preventive Use

For cutworm, armyworm, or stalk borer control, **Respect® insecticide** may be applied before, during, or after planting. For soil-incorporated applications, use higher rates for improved control. **DO NOT** exceed maximum allowable rate.

## Rotational Crops

With the exception of the crops listed below, rotational crops should not be planted within 30 days of last application.

## Tank Mixture

**Respect** may be applied in tank mixtures with other products approved for use on alfalfa and nongrass animal feeds, Brassica vegetables, bulb vegetables, corn, cotton, fruiting vegetables, head lettuce, legume vegetables, peanut, root and tuber vegetables, sorghum, soybeans, sugarcane, tree nuts, and wheat. Observe all restrictions and precautions which appear on the labels of these products. Test for compatibility of products before mixing.

## Maximum Usage when Applying Both Zeta-Cypermethrin and Cypermethrin Products to the Same Crop within the Same Season

**DO NOT** apply more than the maximum seasonal total for either product when used alone.

**DO NOT** apply more than the combined maximum seasonal total for both products as outlined in the table below.

| Crop                          | Maximum Seasonal Total<br>(lb ai/acre) |                         |        | Maximum Seasonal Total<br>(lb ai/acre)<br>when Applying<br>Cypermethrin and<br>Zeta-cypermethrin<br>Products to the<br>Same Crop | Maximum Seasonal Total<br>(lb ai/acre)<br>when Applying<br>Zeta-cypermethrin<br>Products to the<br>Same Crop |                |
|-------------------------------|--|-------------------------|--------|--|--|----------------|
|                               | Zeta-cypermethrin*                     |                         |        |  |  | Cypermethrin** |
|                               | Mustang®                               | Respect®<br>insecticide | Hero®  | Zeta-cypermethrin*   |  |                |
| Cotton                        | 0.3                                    | 0.15                    | 0.1125 | 0.6  | 0.6  | 0.3            |
| Field Corn                    | 0.2                                    | 0.10                    | 0.1000 | NA   | NA   | 0.2            |
| Sweet Corn                    | 0.3                                    | 0.15                    | 0.0675 | NA   | NA   | 0.3            |
| Eggplant                      | 0.3                                    | 0.15                    | 0.0675 | NA   | NA   | 0.3            |
| Pepper<br>(Bell and Non-Bell) | 0.3                                    | 0.15                    | 0.0675 | NA   | NA   | 0.3            |
| Tomato                        | 0.3                                    | 0.15                    | 0.1050 | NA   | NA   | 0.3            |
| Head Lettuce                  | 0.3                                    | 0.15                    | 0.1125 | 0.6  | 0.6  | 0.3            |
| Head and Stem<br>Brassica     | 0.3                                    | 0.15                    | 0.1125 | 0.6  | 0.6  | 0.3            |
| Succulent Peas and<br>Beans   | 0.3                                    | 0.15                    | 0.0675 | NA   | NA   | 0.3            |
| Pecans                        | 0.3                                    | 0.15                    | 0.1125 | 0.6  | 0.6  | 0.3            |

\***Mustang** or **Fury**® (1.5 EW or 1.5 EC), **Respect** (0.8 EC), **Z-Cype** (0.8 EW), **Hero**, or any zeta-cypermethrin product approved for crop use.

\*\*Any cypermethrin product approved for crop use, including **Ammo**®

NA = Not Applicable



## Maximum Seasonal Usage and PHI (Preharvest Interval) for Respect® insecticide Labeled Crops

| Crop  | Maximum Seasonal Total/Acre for Respect |          | PHI (days)                             |
|---|---|----------|--|
|   | (lb ai)                                 | (fl ozs) |  |
| Alfalfa and Nongrass Animal Feeds (forage, fodder, straw and hay) Group | 0.025/cutting                           | 4.0      | 3 (cutting or grazing)                 |
|   | 0.075/season                            | 12.0     | 7 (harvesting seed)                    |
| Brassica Vegetables   | 0.150                                   | 24.0     | 1                                      |
| Bulb Vegetables   | 0.125                                   | 20.0     | 7                                      |
| Corn, Sweet   | 0.150                                   | 24.0     | 3                                      |
| Corn, Field<br>Corn, Pop<br>Corn, Seed                                  | 0.100                                   | 16.0     | 30 (grain and stover)<br>60 (forage)   |
| Cotton  | 0.150                                   | 24.0     | 14                                     |
| Fruiting Vegetables   | 0.150                                   | 24.0     | 1                                      |
| Head Lettuce  | 0.150                                   | 24.0     | 1                                      |
| Legume Vegetables   | 0.150                                   | 24.0     | 1 (succulent shelled or edible-podded) |
|   |   |          | 21 (dried shelled)                     |
| Peanut  | 0.150                                   | 24.0     | 7                                      |
| Root and Tuber Vegetables (except Sugar Beet)                           | 0.150                                   | 24.0     | 1                                      |
| Sorghum   | 0.125                                   | 20.0     | 14 (grain and fodder stover)           |
|   |   |          | 45 (forage [silage])                   |
| Soybeans  | 0.150                                   | 24.0     | 21                                     |
| Sugarcane   | 0.100                                   | 16.0     | 21                                     |
| Tree Nuts   | 0.125                                   | 20.0     | 7                                      |
| Wheat   | 0.125                                   | 20.0     | 14                                     |

The REI (restricted-entry interval) is **12 hours** for all labeled crops.  
Refer to the crop-specific use directions for detailed information on application timing and any use restrictions.

**Nongrass Animal Feeds (Forage, Fodder, Straw and Hay) Group including:**

Alfalfa; Alfalfa grown for seed (includes lucerne, sainfoin, holy clover, esparcet, birdsfoot trefoil and varieties and/or hybrids of these); Velvet Bean; Clover; Kudzu; Lespedeza; Lupin; Sainfoin; Trefoil; Vetch; Crown Vetch; and Milk Vetch

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method   |
|--|---|--|
| Alfalfa Caterpillar<br>Alfalfa Looper<br>Alfalfa Weevil<br>Cutworms<br>Egyptian Alfalfa Weevil (larvae and adult)<br>Flea Beetles<br>Green Cloverworm<br>Hornworms<br>Meadow Spittlebug<br>Potato Leafhopper<br>Velvetbean Caterpillar<br>Webworms<br>Blue Alfalfa Aphid <sup>1</sup><br>Green Peach Aphid <sup>1</sup><br>Pea Aphid <sup>1</sup><br>Spotted Alfalfa Aphid <sup>1</sup><br>Three-cornered Alfalfa Hopper | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply as insects appear in sufficient volume of water to ensure thorough coverage of foliage.<br><br>Use higher recommended dosage for increased pest pressure or for increased residual pest control. <b>DO NOT</b> exceed maximum allowable rate.<br><br>Apply in a minimum of 2 gallons of finished spray per acre by aerial equipment or 10 gallons per acre by ground equipment. ULV oil spray application is prohibited. Higher volumes of finished spray may improve insect control under high temperatures, when foliage is dense and/or when insect pressure is high. |
| Armyworms<br>Grasshoppers<br>Plant Bugs<br>(including Lygus spp. and Stink Bugs)   | 2.8 to 4.0<br>(0.0175 to 0.025 lb active) |  |

**DO NOT** make applications less than 7 days apart.

A maximum of 4.0 fl ozs product (0.025 lb active ingredient) per acre may be applied per cutting and a maximum of 12.0 fl ozs product (0.075 lb active ingredient) per acre per season.

Applications may be made up to 3 days of cutting or grazing or up to 7 days of harvesting seed.

<sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.



**Head and Stem Brassica Vegetables (1-day PHI) including:**

Broccoli; Chinese Broccoli (gai lon, white flowering broccoli); Brussels Sprouts; Cauliflower; Cavalo Broccolo; Kohlrabi; Cabbage; Chinese Cabbage (napa); Chinese Mustard Cabbage (gai choy)

**Leafy Brassica Greens (1-day PHI) including:**

Broccoli Raab (rapini); Chinese Cabbage (bok choy); Collards; Kale; Mizuna; Mustard Greens; Mustard Spinach; Rape Greens; and Turnip Greens

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method  |
|--|---|---|
| Corn Earworm<br>Cucumber Beetles<br>Cutworm<br>Diamondback Moth <sup>1</sup><br>Flea Beetles<br>Imported Cabbageworm<br>Leafhoppers<br>Saltmarsh Caterpillar<br>Southern Cabbageworm<br>Tobacco Budworm <sup>1</sup>                                   | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply in water as necessary for insect control using a minimum of 15 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air.<br><br>Lower rates of <b>Respect® insecticide</b> should be used under light-to-moderate insect pressure. Higher rates should be used to control heavy-to-extremely heavy insect populations.<br><br>In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required. |
| Alfalfa Looper<br>Armyworms<br>Cabbage Looper<br>Cabbage Webworm<br>Crickets<br>Grasshoppers<br>Ground Beetles<br>Leafminers (adult)<br>Lygus Bugs<br>Onion Thrips<br>Stink Bugs<br>Wireworm (adult)<br>Aphids <sup>2</sup><br>Whiteflies <sup>3</sup> | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   |   |

**DO NOT** make applications less than 7 days apart.

A maximum of 24.0 fl ozs product (0.15 lb active ingredient) may be applied per acre per season.

<sup>1</sup>See resistance statement under **Directions For Use** section.

<sup>2</sup>Aphid control may be variable depending on species present and host-plant relationships.

<sup>3</sup>Aids in control

## Head Lettuce (1-day PHI)

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method  |
|--|---|---|
| Aphid spp. <sup>2,3</sup><br>Corn Earworm<br>Cucumber Beetles<br>Cutworms<br>Diamondback Moth<br>Flea Beetles<br>Imported Cabbageworm<br>Leafhoppers<br>Saltmarsh Caterpillar<br>Tobacco Budworm <sup>2</sup><br>Whitefly spp. <sup>1, 2</sup> | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply in water as necessary for insect control using a minimum of 10 gallons of finished spray per acre with ground equipment and 5 gallons per acre by air.<br><br>Lower rates of <b>Respect® insecticide</b> should be used under light-to-moderate insect pressure. Higher rates should be used to control heavy-to-extremely heavy insect populations.<br><br>In areas where arid climatic conditions persist, such as California and Arizona, higher than minimum recommended rates may be required. |
| Armyworms<br>Crickets<br>Ground Beetles<br>Loopers<br>Lygus Bugs<br>Onion Thrips<br>Stink Bugs<br>Wireworm (adult)   | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   |   |

**DO NOT** make applications less than 7 days apart.

A maximum of 24.0 fl ozs product (0.15 lb active ingredient) may be applied per acre per season.

<sup>1</sup>Aids in control

<sup>2</sup>See resistance statement under **Directions For Use** section.

<sup>3</sup>Aphid control may be variable depending on species present and host-plant relationships.

## Bulb Vegetables (*Allium* spp.) (7-day PHI) including:

Garlic; Garlic, Great-headed (elephant); Green Eschalots; Japanese Bunching Onions; Leeks; Onion, Dry Bulb and Green; Onion, Welch; Shallots, Dry Bulb and Green; Spring Onion or Scallions

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method   |
|---|---|--|
| Armyworms<br>Cutworms<br>Leafminers (adult)<br>Onion Maggot Adults<br>Stink Bugs<br>Aphids <sup>1</sup> | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply in a minimum of 20 gallons per acre with ground equipment or in a minimum of 3 gallons per acre by aircraft. Begin applications when pests appear and repeat as necessary to maintain control.<br><br><b>For Onion Thrips Control:</b> |
| Onion Thrips  | 2.88 to 4.0<br>(0.018 to 0.025 lb active) | Use higher rates as population increases and avoid rescue situations. Use of a crop oil concentrate at 16 fl ozs per acre is recommended.<br><br><b>DO NOT</b> exceed maximum allowable rate.  |

**DO NOT** make applications less than 7 days apart.

**DO NOT** apply more than 20.0 fl ozs product (0.125 lb active ingredient) per acre per season.

**DO NOT** graze livestock in treated areas or cut treated crops for feed.

<sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.

### Corn, Sweet (3-day PHI)

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method  |
|---|---|---|
| Chinch Bug<br>Corn Rootworm (adult)<br>Corn Silkfly<br>Cutworms<br>Flea Beetle<br>Leafhoppers<br>Japanese Beetle (adult)<br>Sap Beetle (adult)<br>Tarnished Plant Bug   | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply with ground or air equipment using sufficient water and application methods to ensure thorough coverage of foliage. Apply in water using a minimum of 20 gallons of finished spray per acre with ground equipment and a minimum of 2 gallons per acre by air. |
| Aphids <sup>1</sup><br>Armyworms<br>Corn Borers<br>Corn Earworm<br>Grasshoppers   | 2.8 to 4.0<br>(0.0175 to 0.025 lb active) |   |
| <p>Apply at minimum 3- to 5-day intervals or as needed for control.</p> <p>A maximum of 24.0 fl ozs product (0.15 lb active ingredient) may be applied per acre per season.</p> <p><b>DO NOT</b> apply within 3 days of harvest of ears or forage or livestock grazing.</p> <p><sup>1</sup>Aphid control may be variable depending on species present and host-plant relationships.</p> |   |   |

### Corn (Field), Field Corn Grown for Seed, Popcorn (At-plant Use)

| Insects Controlled  | Application Rate   | Application Method   |       |       |
|---|--|--|-------|-------|
| Cutworms  | 0.16 fl oz<br>(0.001 lb active)<br>per 1000 linear feet of row | Apply as an in-furrow, band or T-band treatment using a minimum 4-inch band. Use table below to determine the <b>Respect® insecticide</b> needs for each acre. |       |       |
| Row Spacings (inches)   |  | 40   | 30    | 20    |
| <b>Respect</b> (pound ai per acre)  |  | 0.012  | 0.018 | 0.024 |
| <b>Respect</b> (formulated ounces per acre)   |  | 1.92   | 2.88  | 3.84  |
| <p><b>DO NOT</b> apply more than 16.0 fl ozs product (0.10 lb active ingredient) per acre per season, including at-planting plus foliar applications of <b>Respect</b>.</p> <p><b>DO NOT</b> apply within 30 days of harvest for grain and stover and 60 days for forage.</p> |  |  |       |       |

## Corn (Field), Field Corn Grown for Seed, Popcorn

| Insects Controlled   | Application Rate/A<br>(fl ozs)             | Application Method  |
|--|--|---|
| Cutworms   | 1.28 to 2.8<br>(0.008 to 0.0175 lb active) | Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results. <b>DO NOT</b> exceed maximum allowable rate.  |
| Corn Earworm <sup>1</sup><br>Green Cloverworm<br>Meadow Spittlebug<br>Western Bean Cutworm <sup>1</sup>  | 1.76 to 4.0<br>(0.011 to 0.025 lb active)  | Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground).<br><br><b>For Chinch Bug Control:</b><br>Scout corn fields and make applications when bugs migrate from small grains or wild grasses to small corn. Direct spray to the base of plant. Repeat applications at 3- to 5-day intervals if needed. <b>Respect® insecticide</b> may only suppress heavy infestations and/or subsequent migrations. |
| Aphids <sup>3</sup><br>Bean Leaf Beetle<br>Cereal Leaf Beetle<br>Corn Borer, European<br>Corn Borer, Southwestern<br>Corn Rootworm Beetle<br>Flea Beetle<br>Grasshoppers<br>Hop Vine Borer<br>Hornworms<br>Japanese Beetle (adult)<br>Sap Beetle (adult)<br>Southern Corn Leaf Beetle<br>Stalk Borer<br>Stink Bug spp.<br>Tobacco Budworm <sup>2</sup><br>Webworms | 2.72 to 4.0<br>(0.017 to 0.025 lb active)  |   |
| Armyworms (including Fall Armyworms)<br>Chinch Bug   | 3.2 to 4.0<br>(0.02 to 0.025 lb active)    |   |

**DO NOT** apply more than 16.0 fl ozs product (0.10 lb active ingredient) per acre per season, including at-planting plus foliar applications of **Respect**.

**DO NOT** apply within 30 days of harvest for grain and stover and 60 days for forage.

<sup>1</sup>For control before the larva bores into the plant stalk or ear

<sup>2</sup>See resistance statement under **Directions For Use** section.

<sup>3</sup>Control may be variable depending on species present and host-plant relationships.

## Cotton (14-day PHI)

| Insects Controlled   | Application Rate/A<br>(fl ozs)              | Application Method  |
|--|---|---|
| <b>Preemergent Use:</b><br>Cutworms  | 1.28 to 1.92<br>(0.008 to 0.012 lb active)  | Use <b>Respect® insecticide</b> in the time period from 14 days prior to planting up to emergence of the crop. Apply as a broadcast spray by ground or air, banded (including T-band) or in-furrow spray using sufficient spray volume to achieve adequate coverage. Reduced volumes of water may be used with specialized equipment. Use the higher rates of <b>Respect</b> when incorporating into the soil.  |
| Cutworms<br>Soybean (banded) Thrips<br>Tobacco Thrips  | 1.28 to 1.92<br>(0.008 to 0.012 lb active)  | <b>Respect</b> may be applied in water or refined vegetable oil. When water is used, apply a minimum of 1 gallon of finished spray per acre by air or 5 gallons of finished spray with ground equipment. When applying in water by air, 1 quart of emulsified oil may be substituted for 1 quart of water in the finished spray. When using oil, use a minimum of 1 quart per acre in the finished spray.   |
| Armyworm, Fall<br>Armyworm, Yellow-striped<br>Boll Weevil<br>Cabbage Looper<br>Corn Borer, European<br>Cotton Bollworm<br>Cotton Fleahopper<br>Cotton Leaf Perforator<br>Pink Bollworm<br>Saltmarsh Caterpillar<br>Stink Bugs<br>Tarnished Plant Bug<br>Other Plant Bugs<br>Tobacco Budworm <sup>1</sup> | 2.64 to 3.6<br>(0.0165 to 0.0225 lb active) | Control of lepidopteran eggs may be achieved with proper timing of applications.<br><br><b>For Boll Weevil Control:</b><br>Apply <b>Respect</b> at a 3- to 4-day interval until pest numbers are reduced to acceptable levels.<br><br><b>For Grasshopper Control:</b><br>Applications should be made based on careful field scouting. Treatment decisions should be made based on evidence of feeding damage and presence of grasshoppers in cotton. Loss of cotyledon leaves in seedling cotton should be considered more important than leaf loss in older cotton. Applications should be made on a broadcast basis since grasshoppers are highly mobile. |
| Armyworm, Beet <sup>2</sup><br>Cotton Aphid <sup>3</sup><br>Lygus Bugs<br>Whiteflies <sup>4</sup>  | 2.8 to 4.0<br>(0.0175 to 0.025 lb active)   | Applications should be made based on evidence of feeding damage and presence of grasshoppers in cotton. Loss of cotyledon leaves in seedling cotton should be considered more important than leaf loss in older cotton. Applications should be made on a broadcast basis since grasshoppers are highly mobile.  |
| Grasshoppers   | 3.0 to 4.0<br>(0.01875 to 0.025 lb active)  | Adjust rates based on populations of grasshoppers found in fields. Applications should be made on a 3- to 5-day schedule until grasshopper populations are under control or until foliage loss subsides.<br><br>Increase application rates as grasshopper size and population density increases.  |

A maximum of 24.0 fl ozs product (0.15 lb active ingredient) may be applied per acre per season.

**DO NOT** graze or feed cotton for forage.

<sup>1</sup>See resistance statement under **Directions For Use** section.

<sup>2</sup>For control of beet armyworms only in the high plains of Texas, Arizona, and California

<sup>3</sup>Aphid control may be variable depending on species present and host-plant relationships.

<sup>4</sup>Aids in control

**Fruiting Vegetables (except Cucurbits) (1-day PHI) including:**

Eggplant; Groundcherry (*Physalis* spp.); Okra; Pepino (Melon Pear); Pepper (includes Bell Pepper, Chili Pepper, Cooking Pepper, Pimento, Sweet Pepper); Tomatillo; Tomato

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method  |
|--|---|---|
| Armyworm, Southern<br>Armyworm, True<br>Armyworm, Yellow-striped<br>Celery Leaf Tier<br>Colorado Potato Beetle<br>Corn Borer, European<br>Corn Borer, Southwestern<br>Corn Earworm<br>Cucumber Beetle<br>Cutworm spp.<br>Flea Beetle<br>Garden Webworm<br>Green Stink Bug<br>Hornworms<br>Leafminers (adult)<br>Leafhopper spp.<br>Meadow Spittlebug<br>Pepper Maggot (adult)<br>Pepper Weevil<br>Plant Bug spp.<br>Tobacco Budworm <sup>2</sup><br>Tomato Fruitworm<br>Tomato Pinworm | 2.24 to 4.0<br>(0.014 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. <b>DO NOT</b> exceed maximum allowable rate.<br><br>Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). |
| Aphid spp. <sup>2,3</sup><br>Armyworm, Beet <sup>2</sup><br>Armyworm, Fall<br>Cabbage Looper<br>Grasshoppers<br>Lygus Bugs<br>Brown Stink Bug<br>Tomato Psyllid<br>Thrips spp. <sup>1,2</sup><br>Whitefly spp. <sup>1,2</sup>  | 3.2 to 4.0<br>(0.020 to 0.025 lb active)  |   |
| <p><b>DO NOT</b> make applications less than 7 days apart.</p> <p><b>DO NOT</b> apply more than 24.0 fl ozs product (0.15 lb active ingredient) per acre per season.</p> <p><sup>1</sup>Aids in control</p> <p><sup>2</sup>See resistance statement under <b>Directions For Use</b> section.</p> <p><sup>3</sup>Aphid control may be variable depending on species present and host-plant relationships.</p>   |   |   |

## Legume Vegetables

### Legume Vegetables - Dried (except Soybeans) (At-plant Application)

#### Dried Shelled Pea and Bean (except Soybean)

Dried cultivars of bean (*Lupinus* spp.) includes Grain Lupin, Sweet Lupin, White Lupin, and White Sweet Lupin; *Phaseolus* spp. includes Field Bean, Kidney Bean, Lima Bean (dry), Navy Bean, Pinto Bean, Tepary Bean; Bean (*Vigna* spp.) includes Adzuki Bean, Blackeyed Pea, Catjang, Cowpea, Crowder Pea, Moth Bean, Mung Bean, Rice Bean, Southern Pea, Urd Bean; Broad Bean (dry); Chickpea; Guar; Lablab Bean; Lentil; Pea (*Pisum* spp.) includes Field Pea; Pigeon Pea

| Insects Controlled                          | Application Rate/A<br>(fl ozs) | Application Method  |
|---|--------------------------------|---|
| Cutworm spp.<br>White grub<br>Wireworm spp. | 4.0<br>(0.025 lb active)       | <p><b>For Cutworm spp:</b><br/>Apply at planting on the soil surface in a 5- to 7-inch band in a minimum of 2 to 7 gallons per acre or broadcast in a minimum of 10 gallons per acre.</p> <p><b>For White Grubs and Wireworms:</b><br/>Apply in-furrow or in a 3- to 4-inch T-Band (band over the open furrow) at planting in a minimum of 2 to 7 gallons per acre.</p> |

**PHI: DO NOT** apply within 21 days of harvest for dried shelled peas or beans.

**Maximum Amount per Application: DO NOT** apply more than 4.0 fl ozs product (0.025 lb active ingredient) per acre.

**Maximum Amount per Season: DO NOT** apply more than 24.0 fl ozs product (0.15 lb of active ingredient) per acre per season including at-planting plus foliar applications.

| Row spacing<br>(inches) | fl oz/1000 linear feet | lb ai/1000 linear feet |
|-------------------------|------------------------|------------------------|
| 30                      | 0.230                  | 0.00140                |
| 20                      | 0.150                  | 0.00096                |
| 15                      | 0.115                  | 0.00070                |



## Legume Vegetables (Foliar Use)

### Legume Vegetables - Succulent and Dried (except Soybeans)

1-day PHI for succulent shelled or edible-podded peas or beans

21-day PHI for dried shelled peas or beans

### Succulent Edible-podded Peas, Succulent Shelled Peas, and Dried Shelled Peas

(*Pisum* spp.) including:

Dwarf Pea; Edible-pod Pea; Snow Pea; Sugar Snap Pea; Pigeon Pea; English Pea; Garden Pea; Green Pea; Lentil

### Succulent Edible-podded Beans, Succulent Shelled Beans, and Dried Shelled Beans including:

Runner Bean; Snap Bean; Wax Bean; Asparagus Bean; Chinese Longbean; Moth Bean; Yardlong Bean; Jackbean; Soybean (immature seed); Swordbean; Lima Bean; Broad Bean (Fava Bean); Blackeyed Pea; Southern Pea; Grain Lupin; Sweet Lupin; White Lupin; White Sweet Lupin; Field Bean; Kidney Bean; Navy Bean; Pinto Bean; Tepary Bean; Adzuki Bean; Catjang; Cowpea; Crowder Pea; Mung Bean; Rice Bean; Urd Bean; Chickpea (Garbanzo Bean); Guar; Lablab Bean

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method   |
|---|---|--|
| Cutworm spp.<br>Saltmarsh Caterpillar<br>Silverspotted Skipper<br>Thistle Caterpillar (Painted Lady)  | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. |
| Alfalfa Caterpillar<br>Armyworm, Southern<br>Armyworm, True<br>Armyworm, Yellow-striped<br>Bean Leaf Beetle<br>Blister Beetle spp.<br>Colorado Potato Beetle<br>Corn Borer, European<br>Corn Borer, Southwestern<br>Corn Earworm<br>Corn Rootworm Beetle (adult)<br>Cowpea Curculio<br>Cucumber Beetle<br>Flea Beetle<br>Green Cloverworm<br>Ground Beetles<br>Imported Cabbageworm<br>Japanese Beetle<br>Leaf Skeletonizer spp.<br>Leafhopper spp.<br>Leafminers (adult)<br>Mexican Bean Beetle<br>Pea Weevil<br>Pea Leaf Weevil<br>Plant Bug spp.<br>Potato Leafhopper<br>Seedcorn Beetle<br>Seedcorn Maggot (adult)<br>Spittlebug<br>Three-cornered Alfalfa Hopper<br>Tobacco Budworm <sup>2</sup><br>Velvetbean Caterpillar<br>Webworm spp.<br>Woollybear Caterpillar | 2.72 to 4.0<br>(0.017 to 0.025 lb active) | <b>DO NOT</b> exceed maximum allowable rate.<br>Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).   |

(continued)

**Legume Vegetables (Foliar Use)** *(continued)*

**Legume Vegetables - Succulent and Dried (except Soybeans)**

**Succulent Edible-podded Peas, Succulent Shelled Peas, and Dried Shelled Peas**  
(*Pisum* spp.)

**Succulent Edible-podded Beans, Succulent Shelled Beans, and Dried Shelled Beans**

| Insects Controlled   | Application Rate/A<br>(fl ozs)           | Application Method  |
|--|--|---|
| Aphid spp. <sup>2,3</sup><br>Armyworm, Beet <sup>2</sup><br>Armyworm, Fall<br>Grasshoppers<br>Lesser Cornstalk Borer <sup>1</sup><br>Looper spp. <sup>2</sup><br>Stink Bug spp.<br>Thrips spp. <sup>1,2</sup><br>Whitefly spp. <sup>1,2</sup>  | 3.2 to 4.0<br>(0.020 to 0.025 lb active) | Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. <b>DO NOT</b> exceed maximum allowable rate.<br><br>Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). |
| <p><b>DO NOT</b> make applications less than 5 days apart.</p> <p><b>Maximum Amount per Season: DO NOT</b> apply more than 24.0 fl ozs product (0.15 lb active ingredient) per acre per season including at-planting plus foliar applications.</p> <p><sup>1</sup>Aids in control</p> <p><sup>2</sup>See resistance statement under <b>Directions For Use</b> section.</p> <p><sup>3</sup>Aphid control may be variable depending on species present and host-plant relationships.</p> |  |   |

**Peanut (7-day PHI)**

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method  |
|--|---|---|
| Cutworm spp.<br>Green Cloverworm<br>Red-necked Peanut Worm<br>Velvetbean Caterpillar   | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. <b>DO NOT</b> exceed maximum allowable rate. |
| Bean Leaf Beetle<br>Leafhopper spp.<br>Southern Corn Rootworm (adult)<br>Vegetable Weevil<br>Whitefringed Beetle (adult)   | 1.76 to 4.0<br>(0.011 to 0.025 lb active) | Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air).  |
| Aphid spp. <sup>1,2</sup><br>Armyworm, Beet <sup>1,2</sup><br>Armyworm, Fall <sup>1,2</sup><br>Corn Earworm<br>Grasshopper spp.<br>Lesser Cornstalk Borer <sup>1,2</sup><br>Soybean Looper <sup>1,2</sup><br>Stink Bug spp. <sup>1,2</sup><br>Tobacco Thrips <sup>2</sup>  | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   | <b>DO NOT</b> make applications less than 14 days apart.  |
| <p><b>DO NOT</b> apply more than 24.0 fl ozs product (0.15 lb active ingredient) per acre per season.</p> <p><b>DO NOT</b> graze livestock in treated areas. <b>DO NOT</b> use treated vines or hay for animal feed.</p> <p><sup>1</sup> Aids in control</p> <p><sup>2</sup> See resistance statement under <b>Directions For Use</b> section.</p> |   |   |

**Root and Tuber Vegetables Group 1 (except Sugar Beet) (1-day PHI) including:**

Arracacha; Arrowroot; Artichoke (Chinese and Jerusalem); Garden Beet; Edible Burdock; Edible Canna; Carrot; Cassava (Bitter and Sweet); Celery (Celery Root); Chayote (Root); Turnip-rooted Chervil; Chicory; Chufa; Dasheen (Taro); Ginger; Ginseng; Horseradish; Leren; Turnip-rooted Parsley; Parsnip; Potato; Oriental Radish (Daikon); Radish; Rutabaga; Salsify (Oyster Plant); Black Salsify; Spanish Salsify; Skirret; Sweet Potato; Tanier (Cocoyam); Turmeric; Turnip; Yam Bean; and Yam (True)

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method  |
|---|---|---|
| Cutworm spp.  | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. <b>DO NOT</b> exceed maximum allowable rate. |
| Cabbage Looper<br>Cucumber Beetle<br>European Corn Borer<br>Flea beetle spp.<br>Leafhopper spp.<br>Southern Corn Rootworm (adult)<br>Vegetable Weevil<br>Whitefringed Beetle (adult)  | 1.76 to 4.0<br>(0.011 to 0.025 lb active) |   |
| Aphid spp. <sup>1,2</sup><br>Armyworm, Beet <sup>1,2</sup><br>Armyworm, Yellow-striped<br>Cabbage Maggot<br>Colorado Potato Beetle <sup>2</sup><br>Grasshopper spp.<br>Imported Cabbageworm<br>Potato Leafhopper<br>Tarnished Plant Bug | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   |   |
| <p><b>DO NOT</b> apply more than 24.0 fl ozs product (0.15 lb active ingredient) per acre per season.</p>   |   |   |
| <p>Leaves of root and tuber vegetables cannot be used for food or feed.</p>   |   |   |
| <p><sup>1</sup> Aids in control</p>   |   |   |
| <p><sup>2</sup> See resistance statement under <b>Directions For Use</b> section.</p>   |   |   |

## Sorghum (Grain) and Millet

14-day PHI for grain and stover

45-day PHI for forage

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method  |
|---|---|---|
| Cutworm spp.<br>Sorghum Midge   | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. <b>DO NOT</b> exceed maximum allowable rate.   |
| Armyworm, Fall<br>Armyworm, Southern<br>Armyworm, True<br>Armyworm, Yellow-striped<br>Corn Borer, European <sup>1</sup><br>Corn Borer, Southwestern <sup>1</sup><br>Corn Earworm<br>Flea Beetle spp.<br>Hornworms<br>Stink Bug spp.<br>Webworm spp. | 1.76 to 4.0<br>(0.011 to 0.025 lb active) | Apply by ground or air equipment using sufficient water to obtain full coverage of foliage (minimum of 10 gallons by ground and 2 gallons by air). The addition of 1 to 2 quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control.<br><br><b>For Sorghum Midge Control:</b><br>Begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 10-day intervals if needed. |
| Aphid spp. <sup>2,3</sup><br>Armyworm, Beet <sup>3</sup><br>Chinch Bug<br>False Chinch Bug<br>Grasshopper spp.<br>Lesser Cornstalk Borer <sup>1</sup><br>Thrips spp. <sup>3,4</sup><br>Whitefly spp. <sup>3,4</sup>                                 | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   | <b>For Chinch Bug Control:</b><br>Begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of plants with sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths.  |

**DO NOT** make applications less than 10 days apart.

**DO NOT** apply more than 20.0 fl ozs product (0.125 lb active ingredient) per acre per season.

<sup>1</sup>For control before the larva bores into the plant stalk

<sup>2</sup>Aphid control may be variable depending on species present and host-plant relationships.

<sup>3</sup>See resistance statement under **Directions For Use** section.

<sup>4</sup>Aids in control

## Soybeans (21-day PHI)

| Insects Controlled   | Application Rate/A<br>(fl ozs)            | Application Method  |
|--|---|---|
| Cutworm spp.<br>Painted Lady (Thistle) Caterpillar<br>Saltmarsh Caterpillar<br>Silverspotted Skipper   | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. <b>DO NOT</b> exceed maximum allowable rate.   |
| Alfalfa Caterpillar<br>Armyworm, Southern<br>Armyworm, True<br>Armyworm, Yellow-striped<br>Bean Leaf Beetle <sup>1</sup><br>Blister Beetle spp.<br>Colorado Potato Beetle<br>Corn Borer, European<br>Corn Earworm<br>Corn Rootworm Beetle (adult)<br>Cowpea Curculio<br>Cucumber Beetle<br>European Corn Borer<br>Flea Beetle<br>Green Cloverworm<br>Hornworms<br>Imported Cabbageworm<br>Japanese Beetle<br>Leaf Skeletonizer spp.<br>Leafhopper spp.<br>Leafminers (adult)<br>Mexican Bean Beetle<br>Pea Leaf Weevil<br>Plant Bug spp.<br>Potato Leafhopper<br>Seedcorn Maggot (adult)<br>Soybean Aphid<br>Spittlebug<br>Three-cornered Alfalfa Hopper<br>Tobacco Budworm <sup>2</sup><br>Velvetbean Caterpillar<br>Webworm spp.<br>Woollybear Caterpillar | 2.8 to 4.0<br>(0.0175 to 0.025 lb active) | Apply with either aerial or ground equipment using sufficient spray volume to obtain full coverage of the plant and foliage. Use a minimum of 2 gallons of finished spray per acre by air or 10 gallons of finished spray per acre by ground. The addition of 1 to 2 quarts of emulsified oil per acre to the spray solution may improve spray deposition and insect control. |
| Armyworm, Beet<br>Armyworm, Fall<br>Grasshopper spp.<br>Lesser Cornstalk Borer <sup>3</sup><br>Looper spp. <sup>2</sup><br>Stink Bug spp.<br>Thrips spp. <sup>2,3</sup><br>Whitefly spp. <sup>2,3</sup>  | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   |   |

**DO NOT** make applications less than 7 days apart.

**DO NOT** graze or harvest treated soybean forage, straw, or hay for livestock feed.

**DO NOT** apply more than 24.0 fl ozs product (0.15 lb active ingredient) per acre per season.

<sup>1</sup> Use higher recommended dosage for increased pest pressure, increased residual pest control, or later-season applications. **DO NOT** exceed maximum allowable rate.

<sup>2</sup> See resistance statement under **Directions For Use** section.

<sup>3</sup> Aids in control

## Sugarcane (21-day PHI)

| Insects Controlled  | Application Rate/A<br>(fl ozs)             | Application Method   |
|---|--|--|
| Mexican Rice Borer<br>Sugarcane Borer   | 3.0 to 4.0<br>(0.01875 to 0.025 lb active) | Make applications when insect populations reach economic thresholds. Refer to local Cooperative Extension Pest Management Guidelines and/or scouting results. <b>DO NOT</b> exceed maximum allowable rate.<br><br>Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons per acre by air and 10 gallons per acre by ground). |
| <p><b>DO NOT</b> make applications less than 21 days apart.</p> <p><b>DO NOT</b> apply more than 16.0 fl ozs product (0.10 lb active ingredient) per acre per season.</p> |  |  |

## Tree Nuts (7-day PHI) including:

Almond; Beech Nut; Brazil Nut; Bitternut; Cashew; Chestnut; Chinquapin; Filbert (Hazelnut); Hickory Nut; Macadamia Nut; Pecan; and Walnut (Black and English)

| Insects Controlled  | Application Rate/A<br>(fl ozs)          | Application Method  |
|---|---|---|
| Black Pecan Aphid<br>Codling Moth<br>Filbert Worm<br>Hickory Shuckworm<br>Leaf-footed Bugs<br>Navel Orangeworm<br>Oblique-banded Leafroller<br>Peach Twig Borer<br>Pecan Leaf Casebearer<br>Pecan Nut Casebearer<br>Pecan Phylloxera<br>Pecan Weevil<br>Plant Bugs<br>Stink Bugs<br>Walnut Aphid<br>Walnut Husk Fly<br>Yellow Pecan Aphid | 3.2 to 4.0<br>(0.02 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold levels. <b>DO NOT</b> exceed maximum allowable rate.<br><br>Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons by air and 10 gallons by ground). |
| <p><b>DO NOT</b> apply more than 20.0 fl ozs product (0.125 lb active ingredient) per acre per season.</p> <p><b>DO NOT</b> make applications less than 7 days apart.</p>   |   |   |

## Wheat and Triticale

### 14-day PHI for grain, forage, and hay

| Insects Controlled  | Application Rate/A<br>(fl ozs)            | Application Method  |
|---|---|---|
| Cutworm spp.<br>including Army Cutworm<br>Painted Lady (Thistle) Caterpillar  | 1.28 to 4.0<br>(0.008 to 0.025 lb active) | Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. <b>DO NOT</b> exceed maximum allowable rate.   |
| Armyworm, Southern<br>Armyworm, True<br>Armyworm, Yellow-striped<br>Cereal Leaf Beetle<br>Flea Beetle spp.<br>Pale Western Cutworm<br>Plant Bug spp.<br>Spittlebug<br>Webworm spp.  | 1.76 to 4.0<br>(0.011 to 0.025 lb active) | Apply by air or ground equipment using sufficient water to obtain full coverage of foliage (minimum of 2 gallons by air and 10 gallons by ground).<br><br><b>For Chinch Bug Control:</b><br>Begin applications when bugs migrate from small grains or grass weeds. Apply sufficient spray volume to penetrate the soil/stem interface, leaf collars, and sheaths. |
| Aphid spp. <sup>1,2</sup><br>Armyworm, Beet <sup>2</sup><br>Armyworm, Fall<br>Chinch Bug<br>Grasshopper spp.<br>Grass Sawfly<br>Greenbug <sup>2,3</sup><br>Stink Bug spp.<br>Thrips spp. <sup>2,3</sup><br>Wheat Stem Sawfly (adult) <sup>3</sup><br>Whitefly spp. <sup>2,3</sup> | 3.2 to 4.0<br>(0.02 to 0.025 lb active)   |   |
| <b>DO NOT</b> make applications less than 14 days apart.  |   |   |
| <b>DO NOT</b> apply more than 20.0 fl ozs product (0.125 lb active ingredient) per acre per season.   |   |   |
| <sup>1</sup> Aphid control may be variable depending on species present and host-plant relationships.   |   |   |
| <sup>2</sup> See resistance statement under <b>Directions For Use</b> section.  |   |   |
| <sup>3</sup> Aids in control  |   |   |



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BASF Corporation  
26 Davis Drive  
Research Triangle Park, NC 27709



The Chemical Company