



**Controlled Release Insecticide**

For use in, on and around buildings and structures for the control of listed pest, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas and athletic fields.

**Active Ingredient:**

Lambda-cyhalothrin <sup>1</sup>	
[1 α(S*),3 α(Z)]-(±)-cyano-(3-phenoxyphenyl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)- 2,2-dimethylcyclopropanecarboxylate. ....	9.7%
<b>Other Ingredients:</b> .....	<b>90.3%</b>
<b>Total</b>	<b>100.0%</b>

<sup>1</sup> Synthetic pyrethroid

EPA Reg. No. 74530-53-5481

EPA Est. No. xxxx-xx-xxx

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

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

**See additional precautionary statements and directions for use in booklet.**

Net Contents: -----

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<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 15-20 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 15-20 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>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:**

For Medical Emergencies phone:.....1-888-681-4261

For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® .....1-800-424-9300

For Product Use Information phone: AMVAC® .....1-888-462-6822

Manufactured for:



AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**  
**CAUTION**

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Environmental Hazards**

This product is extremely toxic to fish and other aquatic organisms. Do not contaminate water when cleaning equipment or disposing of equipment wash water. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets. 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 or weeds if bees are visiting the treatment area.

**Physical And Chemical Hazards**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

**GENERAL INFORMATION**

AVESTA CS is a unique formulation which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

**DIRECTIONS FOR USE**

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

**IMPORTANT:** Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

1. Treatment to soil or vegetation around structures;
2. Applications to lawns, turf, and other vegetation;
3. Applications to building foundations, 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.
- 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 runoff into storm drains, drainage ditches, gutters or surface waters.
  - Do not water treated area to the point of run-off.
  - Do not make applications during rain.
  - Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

This product is RESTRICTED for use in New York State.

#### RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **AVESTA CS** contains a Group 3 insecticide/acaricide. Any insect/mite population may contain individuals naturally resistant to **AVESTA CS** and other Group 3 insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides /acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

- Rotate the use of **AVESTA CS** or other Group 3 insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.

- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

For further information or to report suspected resistance contact (company representatives) at (toll free number) or at (Internet site).

## PERIMETER PEST CONTROL

**AVESTA CS** is for use as a general surface (nonfood/nonfeed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use include, industrial buildings, houses, patios, porches, closets, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, **AVESTA CS** can be reapplied at 21-day intervals if necessary.

### Mixing Instructions

Dilute **AVESTA CS** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (non-food/non-feed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector<sup>®</sup> or Actisol<sup>®</sup> applicator, may also be used to make crack and crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add **AVESTA CS**. Close and shake before use in order to ensure proper mixing. Shake or reagitator applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. **AVESTA CS** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment.

### Tank Mixing

**AVESTA CS** may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **AVESTA CS** should be added last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while making applications.

**AVESTA CS** may be tank mixed with an Insect Growth Regulator (IGR). Observe all restrictions and precautions which appear on the labels of these products.

### Foam Applications

**AVESTA CS** may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other arthropods harboring in walls, under slabs, or in other void areas.

**RATES FOR PESTS (HAND APPLICATION EQUIPMENT)**

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Ants Bedbugs (Adult) Bees Boxelder Bugs Carpenter Bees Carpet Beetles Centipedes Cigarette Beetles Clover Mites Cockroaches <sup>1</sup> Confused Flour Beetles Crickets Earwigs Firebrats Fleas <sup>2</sup> Flies Lesser Grain Borers Millipedes Mosquitoes Red Flour Beetles Rice Weevils Saw-toothed Grain Beetles Silverfish Sowbugs Spiders Ticks Wasps	0.2 fl. oz. (6 mL) to 0.4 fl. oz. (12 mL) per gallon of water  (0.015-0.03% AI)	<p><b>Ants:</b> Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual surface treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining baits and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and outside treatments. Use baits in other areas that are untreated by residual insecticides; also see <b>Outdoor Surfaces Use</b>.</p> <p><b>Bedbugs:</b> Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.</p> <p><b>Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, and Spiders:</b> Apply as a coarse, low-pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see <b>Outdoor Surfaces Use</b></p>
Cockroaches <sup>1</sup> Crickets <sup>6</sup> Flies <sup>5</sup> Litter Beetles <sup>3</sup> (Adults/ Immature stages such as Darkling, Hide, and Carrion) Mosquitoes <sup>4</sup> Pillbugs Scorpions Spiders <sup>6</sup> Spider Mites (Two- spotted, Spruce) Ticks <sup>6</sup>	0.8 fl. oz. (24 mL) per gallon of water (0.06% AI)	<p><b>Bees, Flies, Mosquitoes, and Wasps:</b> Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see <b>Outdoor Surfaces Use</b>. Use caution when treating nests of stinging insects as AVESTA CS does not provide instant knockdown. Protective equipment for the applicator may be required. Treat bee, wasp and hornet nests late in the day when most insects will be present. Allow 2-3 days for the colony to die and repeat after 21 days, if necessary.</p> <p><b>Carpenter Bees:</b> Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood, surface applications can help control embedded</p>

		<p>larvae and bees that emerge from the wood.</p> <p><b>Pantry Pests</b> (i.e. Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Sawtoothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.</p> <p><b>Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs:</b> Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply treatments to prevent infestation as described below; also see <b>Outdoor Surfaces Use.</b></p> <p><b>Fleas and Ticks:</b> To control nuisance fleas and ticks (e.g. dog ticks) apply to kennels, yards, runs, and other areas where pets may frequent. To control ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than making spot treatments, and retreat as necessary to maintain control. Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the deposit has dried. Applications can begin in the spring and can continue until frost to control both larvae and adult ticks; also see <b>Outdoor Surfaces Use.</b></p> <p><b>Cluster Flies:</b> Apply in late summer or early fall before flies are observed alighting on surfaces. Apply thoroughly on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.</p> <p><b>Litter Beetles (Darkling, Hide, and Carrion Beetles) and Flies in Animal Housing (Such as Poultry Houses):</b> To control adult litter beetles, apply AVESTA CS to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals; also see <b>Livestock/ Poultry Housing Structures and pet Kennels.</b></p>
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Termites (above ground only)	0.2 fl. oz. (6 mL) - 0.4 fl. oz. (12 mL) per gallon of water  (0.015 - 0.03% AI)	<b>AVESTA CS</b> may be used on termites to kill workers or winged reproduction forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticide, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.
<p><sup>1</sup>For cockroaches, the recommended rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. For control of severe infestations, use 0.06% rate.</p> <p><sup>2</sup>For outdoor use only and use 0.03% rate.</p> <p><sup>3</sup>For control of LIGHT beetle infestations, use 0.03% rate.</p> <p><sup>4</sup>For residual control, use 0.06% rate.</p> <p><sup>5</sup>In all states except California, rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high.</p> <p><sup>6</sup>For clean-out/severe infestations, use 0.06% rate.</p>		

### Application Within Food Handling Establishments

For places other than private residences in which exposed food is held, processed, prepared, or served including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas.

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed two sq. ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

### Application Within Food Serving Areas

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

**NOTE:** Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Use of application equipment such as the Micro-Injector or Actisol applicator in food areas should be limited to crack and crevice treatment only.

### Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of **AVESTA CS** to effectively control the crawling and flying insect pests listed in the table.

With the exception of cattle and calves that may be present only apply **AVESTA CS** to livestock barns or housing structures when unoccupied by animals. Apply to floors, vertical, and overhead surfaces where crawling or flying insect pests are or may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or

congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

**RESTRICTIONS:**

- **DO NOT** make applications of **AVESTA CS** in areas where animals, except cattle and calves, are present in the facility. Allow treated surfaces to completely dry before restocking the facility.
- **DO NOT** make applications to any animal feedstuffs, water, or watering equipment.
- **DO NOT** contaminate any animal food, feed, or water in and around livestock, poultry, or pet housing when making applications.

**Outdoor Surfaces Use**

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, pillbugs, spiders, termites (above ground only), ticks, wasps, and other similar perimeter arthropod pests.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use. Do not use on edible crops.

**Perimeter Treatments**

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

**Rate Table For Perimeter Barrier Applications**

<b>Application Rate: Fl. oz. (mL) of AVESTA CS</b>	<b>Gals. of Water<sup>1</sup></b>	<b>Area of Coverage (sq. ft.)</b>
0.2 fl. oz. (6mL)	1-5 gals.	800-1600 sq. ft.
0.4 fl. oz. (12 mL)	1-5 gals.	800-1600 sq. ft.
0.8 fl. oz. (24 mL)	1-5 gals.	800-1600 sq. ft.

<sup>1</sup>Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage.



### Examples Of Dilutions For Perimeter Barrier Applications

Application Volume Gals. of Solution per 1,000 sq. ft.	Application Rate Fl. oz (mL) of AVESTA CS per 1,000 sq. ft.	Fl. oz (mL) of AVESTA CS to Dilute in Water According to Spray Tank Volumes		
		5 gals.	10 gals.	50 gals.
1 gal. per 1,000 sq. ft.	0.2 fl. oz. (6 mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	1 fl. oz. (30 mL) 2 fl. oz. (60 mL) 4 fl. oz. (120 mL)	2 fl. oz. (60 mL) 4 fl. oz. (120 mL) 8 fl. oz. (240 mL)	10 fl. oz. (300 mL) 20 fl. oz. (600 mL) 40 fl. oz. (1200 mL)
2 gals. per 1,000 sq. ft.	0.2 fl. oz. (6 mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.5 fl. oz. (15 mL) 1 fl. oz. (30 mL) 2 fl. oz. (60 mL)	1 fl. oz. (30 mL) 2 fl. oz. (60 mL) 4 fl. oz. (120 mL)	5 fl. oz. (150 mL) 10 fl. oz. (300 mL) 20 fl. oz. (600 mL)
5 gals. per 1,000 sq. ft.	0.2 fl. oz. (6 mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.2 fl. oz. (6 mL) 0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL)	0.4 fl. oz. (12 mL) 0.8 fl. oz. (24 mL) 1.6 fl. oz. (48 mL)	2 fl. oz. (60 mL) 4 fl. oz. (120 mL) 8 fl. oz. (240 mL)

**Example calculation:** To apply the mid-rate of AVESTA CS at a volume of 5 gals./1,000 sq. ft., mix 4 oz. of concentrate in 50 gallons of water. The percent active ingredient in the finished AVESTA CS dilution can be calculated with the following formula:

mL needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3785 mL/gal. = % active in dilution (Example: 4 oz. in 50 gals. is 120 mL times 9.7 equals 1164, and 50 gals. times 3785 is 189250. Dividing 1164 by 189250 equals 0.006% active in the tank dilution).

**NOTE:** Do not use water based sprays of **AVESTA CS** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using **AVESTA CS**. **AVESTA CS** has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

### LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

#### RESTRICTIONS:

- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

### LAWNS/TURFGRASS AND ORNAMENTALS

**AVESTA CS** may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of **AVESTA CS** away from structures, such as to turf and ornamental plantings. Structural pest control certification categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

**IMPORTANT:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

**RESTRICTIONS:**

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product to edible crops.
- **DO NOT** apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, **DO NOT** apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
- **DO NOT** make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York, **DO NOT** apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.

**Mixing Instructions**

**AVESTA CS** is to be mixed with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add **AVESTA CS**. It is suggested that the water be 5 - 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add **AVESTA CS** to applicator tank water

with maximum agitation. Close and shake or reagitator applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

**Tank Mixing**

**AVESTA CS** may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **AVESTA CS** should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

Observe all restrictions and precautions which appear on the labels of these products.

**INSECT CONTROL on ORNAMENTAL PLANTS**

**AVESTA CS** is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

**NOTE:** While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, certain cultivars may be sensitive to the final spray solution.

It is advised to prespray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

**RESTRICTIONS:**

- **DO NOT** apply more than 0.36 lbs. of the a.i. (52.4 fl. oz. of concentrate) per acre per year.

**TANK DILUTION RATES FOR ORNAMENTAL PESTS**

Pest	Amount of <b>AVESTA CS</b>	Application Instructions
Ants (including Imported Fire Ants) Armyworms Azalea caterpillars Aphids Bagworms Black vine weevils (adult) Boxelder bugs Budworms California oakworms Cankerworms Cockroaches Crickets Cutworms Eastern tent caterpillars Elm leaf beetles European sawflies Fall webworms Flea beetles Forest tent caterpillars Gypsy moth larvae Japanese beetles (adults) June beetles (adults) Lace bugs Leaf-feeding caterpillars Leafhoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Mosquitoes Oleander moth larvae Pillbugs Pine sawflies Pine shoot beetles Pintip moths Plant bugs Root weevils Sawflies Scale insects (crawlers) Spiders Spittlebugs Striped beetles Striped oakworms Thrips Tip moths Tussock moth larvae Wasps	1.5 - 5 fl. oz. per 100 gals.  or  44 - 148 mL per 100 gals.	<p>Application to ornamentals should be started prior to the establishment of high insect pest populations.</p> <p>Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.</p> <p>Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.</p> <p>For spot treatments use 0.5 fl. oz. <b>AVESTA CS</b> per 1 - 2.5 gals. of water.</p> <p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p><b>Scale:</b> Thoroughly cover the plant with <b>AVESTA CS</b> spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).</p> <p><b>Bagworm:</b> Apply <b>AVESTA CS</b> when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.</p>

Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs Pine needle scales (crawlers) Spider mites Whiteflies	3 - 5 fl. oz per 100 gals. or 88 - 148 mL per 100 gals.	
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**AVESTA CS Mixing Chart for Ornamental Insect Pest Control**  
(AVESTA CS to add per spray tank)

Rate of AVESTA CS	25 Gals.	50 Gals.	100 Gals.	200 Gals.	300 Gals.
1.5 oz. <sup>1</sup>	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3 oz. <sup>2</sup>	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5 oz. <sup>3</sup>	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

<sup>1</sup>Equivalent to 3.5 mL per 1,000 sq. ft. (5 oz. per acre) when applied at 8 gals. per 1,000 sq. ft.  
<sup>2</sup>Equivalent to 7 mL per 1,000 sq. ft. (10 oz. per acre) when applied at 8 gals. per 1,000 sq. ft.  
<sup>3</sup>Equivalent to 9.5 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gals. per 1,000 sq. ft.

**LAWN/TURFGRASS INSECT PEST CONTROL**

AVESTA CS is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

**RESTRICTIONS:**

- **KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.**
- **DO NOT** apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- **DO NOT** apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year.

**RATES FOR LAWN AND TURFGRASS PESTS**

Pest	Amount of AVESTA CS*	Application Instructions
Ants (including Imported Fire Ants) Armyworms Centipedes Chinch Bugs Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adults) Millipedes Mites Sod webworms Sow bugs Ticks (including species which transmit Lyme disease)	3.4 - 7 mL per 1,000 sq. ft. or 5 - 10 fl. oz. per acre	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control using higher rates as pest pressure increases.  Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.  For <b>spot treatments</b> , use 0.5 fl. oz. of AVESTA CS per 1 - 2.5 gals. of water.  <b>Surface Insect Control (armyworm, cutworms, fleas, etc.):</b> Apply AVESTA CS at recommended rates in 2 - 5 gals. of water per 1,000 sq. ft. The use of a spreader-

<p>Bluegrass billbugs (adult)  Black turfgrass ataenius (adult)  Chiggers  Fleas (adult)  Grubs (suppression)  Hyperodes weevils (adult)  Mole crickets (nymphs and young adults)</p>	<p>7 mL per 1,000 sq. ft.  or  10 fl. oz. per acre</p>	<p>sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.</p> <p><b>Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.):</b> Apply <b>AVESTA CS</b> at recommended rates in 2 - 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to 1/2 inch of water to move the <b>AVESTA CS</b> into the thatch layer. If irrigation is not available, then use high water application rates.</p> <p><b>Subsurface Insect Control (mole crickets, grubs, etc.):</b> Apply <b>AVESTA CS</b> at recommended rates in 4 - 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply <b>AVESTA CS</b> to turf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.</p> <p><b>Fire Ant Control:</b> Treat individual mounds with a drench application using a watering can. Use 0.5 fl. oz. of <b>AVESTA CS</b> per 2.5 gals. of water. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.</p> <p><b>Mosquito Control:</b> Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply <b>AVESTA CS</b> at recommended rates in 2 – 5 gals. of water per 1,000 sq. ft.</p>
<p>*Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4. mL to be added per gallon. For a 50 gallon tank, therefore, this would be 1.4. mL X 50 = 70 mL (or 2.5. oz) in 50 gallons water.</p>		

**AVESTA CS Mixing Chart for Turf Insect Pest Control**  
**(AVESTA CS to add per 100 gals. spray tank)**

	Application Rate Per 1,000 Square Feet of Turf				
	2 gals.	4 gals.	6 gals.	8 gals.	10 gals.
5 oz. per acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz. per acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL)

**STORAGE AND DISPOSAL**

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

**Storage and Spill Procedures:** Store upright at room temperature. Keep container closed when not in use. Do not store near food or feed. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

**Pesticide Disposal:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**Container Disposal:**

Nonrefillable container. Do not reuse or refill this container. Clean container 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. Offer for recycling if available.

**LIMITATION OF WARRANTY AND LIABILITY**

The manufacturer warrants (a) that this product conforms to the chemical description on the label and (b) 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. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.**

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN TORT, CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.**

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty, which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

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AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

SPECIMEN

# InTice<sup>10</sup> perimeter bait™

**Kills Roaches, Crickets, Mole Crickets, Sowbugs, Pillbugs  
Earwigs, Silverfish, Millipedes and Ants\***

\*Except Pharaoh ants, Carpenter Ants, Fire ants, Harvester ants

**For Indoor, Outdoor and Turf Uses  
Mold and Moisture Resistant  
Ready-to-Use Bait**

Active Ingredient: Orthoboric Acid .... 10%  
Other Ingredients: ..... 90%  
Total:..... 100%

EPA Reg. No.: 73079-6  
EPA Est. No.: 73079-MO-1  
Net Contents: 10 lbs



## DIRECTIONS FOR USE

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

### Use Restrictions

In food areas of restaurants, residential, health care, educational, daycare, agricultural buildings, animal rearing and handling establishments, food handling and food processing establishments, this product may only be applied as a crack and crevice treatment. Any product remaining outside of cracks and crevices must be cleaned up and removed.

### Application Directions

**Use Sites:** In and around residential, multi-family, commercial, industrial, municipal, institutional, research, recreational, health care, educational, daycare, hospitality and agricultural buildings and other man-made structures, garages, home greenhouses, transport vehicles, sewers, animal rearing and handling establishments and food handling and food processing establishments. Turf sites include lawns, landscape beds, ornamental turf, parks, playing fields, right-of-ways, golf courses and home greenhouses.

**Outdoor Application:** Apply bait evenly over the affected area using a hand shaker or mechanical spreader at a rate of 1 lb per 1000 square feet or 45 lbs per acre. The product should not be watered in. For mole cricket treatments, results will be best if the area is irrigated prior to bait treatment. Mole crickets typically come to the surface to feed in the evening. Individual ant mounds may be treated by sprinkling 1/2 oz of product around each mound. Repeat treatment as needed. Apply bait early in the season in areas likely to be infested, such as flower, fruit and vegetable gardens, on ornamental turf and ground cover vegetation, and around shrubs. In home greenhouses, apply bait at a rate of 3 oz per 100 sq ft on and under benches. Do not apply bait directly in flats or pots. Reapply as needed.

**Sewer Application:** Apply bait along ledges inside sewers and around manhole covers.

**Indoor Application:** Apply bait only in areas inaccessible to children and pets, or in tamper-resistant bait stations. Apply bait at a rate of 3 oz (2/3 cup) per 100 square feet. Using a hand shaker or duster, apply bait in attics, crawl spaces, trash closets, utility closets, dropped ceilings, on dirt or gravel cellar floors, under and behind appliances and vending machines, in wall voids and voids under and behind cabinets, sinks and tubs, in drawer wells, garbage chutes, pipe chases, elevator pits, around drains, around electrical conduits and in cracks and crevices where insects may harbor. Focus application in areas where insects or their signs are seen. Reapply bait after one week if infestation is still present. A power duster may be used to apply bait in appropriate areas, such as attics and crawlspaces. The duster manufacturer's recommendations for settings should be followed.

Application tips for certain sites follow:

1. In attics, be sure to get bait near the eaves and vent pipes where insects often first enter, as well as around any pipes or potential access points between the attic and the main structure. Attics should have proper ventilation to insure that no food odor from the bait seeps into the living area, particularly in hot weather. If in doubt, apply the product in a manner such that it can be easily removed.
2. When treating cabinetry areas, if there is no gap between the lower cabinets and the kickplate, then small holes can be drilled to access the voids. Escutcheon plates around pipes can also be pulled back to allow access to voids.
3. The bottom drawers in kitchen and bathroom cabinets can be removed and bait dusted into drawer wells. No bait should be left exposed when drawers are replaced.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals: CAUTION:** Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

### First Aid

**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 five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Have the product or label with you when calling a Poison Control Center or doctor or going for treatment. In case of emergency, for additional information call **800 858 7378**.

**Environmental Hazards:** 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 contaminate water when disposing of equipment washwaters or rinsate.

4. Electrical switch plate covers can be removed to allow access to voids, but bait shouldn't be applied directly in electrical boxes.
5. If there are cracks between baseboards, cabinets, door frames, hinges, counters or trim, and walls, these cracks can be lightly dusted with bait. If practical, these areas can be sealed once insect problems have been eliminated, to help prevent future problems.
6. Insects need moisture, so kitchen and bath areas and areas immediately surrounding them, and any other damp areas should be carefully inspected and treated if necessary. As a separate matter from the use of this product, it is advisable to fix any leaks to minimize structural damage and odors, and to prevent potential chronic insect problems.

To help prevent insect problems from developing in homes and similar structures, a preventative program is recommended. Once per year, apply bait in attics and crawlspaces at a rate of 8 oz per 1000 square feet.

**Food Processing and Handling Establishment Application, including Federally-Inspected Meat and Poultry Plants:** Follow instructions for other sites as appropriate. **In food areas, only apply bait in cracks, crevices, and other inaccessible areas.** Avoid contamination of food and feedstuffs. Never apply bait directly to a surface where food is stored, prepared or served. Any bait that is left visible after treatment should be swept into cracks and crevices or removed.

### Storage and Disposal

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

**Storage:** Store in a dry place. Do not store where children or animals may gain access.

**Disposal: If empty:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or **1-800-CLEANUP** which is managed as a public-private partnership.

### Conditions of Warranty and Limitations of Liability

**IMPORTANT: READ BEFORE USE** Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability. **CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Manufacturer. All such risks shall be assumed by the user or buyer. **DISCLAIMER OF WARRANTIES:** To the extent consistent with applicable law, Manufacturer makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Manufacturer is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Manufacturer disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product. **LIMITATIONS OF LIABILITY:** To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Manufacturer's election, the replacement of product.

Manufactured by:

 **Rockwell Labs Ltd**  
creating the future of pest control

North Kansas City, MO 64116

Toll Free: 866 788 4101 • www.rockwelllabs.com

11-2010



# PT<sup>®</sup> Fendona<sup>™</sup> SPECIMEN

## Pressurized Insecticide

### Smart Solutions Facts

#### Facts on this product include:

- Quick knockdown of listed pests (see list of pests in **Product Information** section)
- Next generation pressurized formulation with minimal odor
- Labeled for use in food handling establishments (including those operating under the Federal meat, poultry, shell egg grading, and egg products inspection program)
- Broad use sites on label
- Tested on a broad range of surfaces to ensure minimal chance of any staining
- Ideally suited for both maintenance and clean-out spray programs
- Label flexibility for both indoor and outdoor applications

**KILLS:** Ants, Asian Lady Beetles, Bed Bugs, Bed Bug Eggs, Bees, Beetles, Booklice\*, Boxelder Bugs, Brown Marmorated Stinkbugs, Caddises, Carpenter Ants, Carpenter Bees, Centipedes, Cheese Mites, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cluster Flies, Cockroaches, Crickets, Darkling Beetles, Dermestids, Drugstore Beetles, Drywood Termites\*, Earwigs, Elm Leaf Beetles, Firebrats, Flour Beetles, Fruit Flies (*Drosophila*), Grain Weevils, Harvester Ants (foragers), House Flies, Indianmeal Moths, Kudzu Bugs, Larder Beetles, Lesser Grain Borers, Lesser Mealworms, Litter Beetles, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Pharaoh Ants (foragers), Pillbugs, Psocids\*, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Southern Fire Ants (foragers), Sowbugs, Spiders (including Black Widow and Brown Recluse), Springtails, Stable Flies, Ticks, Wasps, Wood-infesting Beetles and Borers\*, and Wood Wasps\*.

\*Not registered for use in California.

\*Not a substitute for mechanical alteration, soil treatment, or foundation treatment.

**FOR USE IN AND AROUND:** Commercial, Industrial, and Residential Areas and Buildings [Agricultural Buildings, Airports, Animal Confinement Buildings and Pens, Apartments, Cafeterias, Calf Hutches, Calving Pens and Parlors, Campgrounds, Chicken Houses (empty), Churches, Convenience Stores, Cruise Ships, Dairy Areas, Dairy Parlors, Day Care Centers, Dog Kennels, Egg Laying Facilities, Food Handling Facilities, Food Processing Areas and Plants, Food Storage Areas, Food Vendors, Garbage Receptacles and Corrals, Golf Courses, Grain Mills, Granaries, Health Care Facilities, Hog Barns, Homes, Horse Barns and Arenas, Hospitals, Hotels, Libraries, Malls, Meat Packing Plants, Milkrooms, Motels, Museums, Nursing Homes, Poultry Houses, Rabbit Hutches, Recreational Areas, Resorts, Restaurants and other Food Handling Establishments, Schools, Supermarkets, Terminals, Theme Parks, Trailers, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, and Planes – cargo areas only), Utilities, Warehouses, and Washrooms]

#### ACTIVE INGREDIENT:

alpha-Cypermethrin: mixture of

(S)- $\alpha$ -cyano-3-phenoxybenzyl (1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

and

(R)- $\alpha$ -cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate ..... 0.05%

**OTHER INGREDIENTS\*\*:** ..... 99.95%

**TOTAL:** ..... 100.00%

\*\*Contains petroleum distillate.

EPA Reg. No. 499-569

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION/PRECAUCION**

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.)

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty**, and state-specific pest and/or use site restrictions.

**In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).**

**NET CONTENTS:**

BASF Corporation  
26 Davls Drive  
Research Triangle Park, NC 27709

 **BASF**  
We create chemistry

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give any liquid to the person.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin</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>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	
<b>NOTE TO PHYSICIAN:</b> Contains petroleum distillate. Vomiting may cause aspiration pneumonia.	

## **Precautionary Statements**

### **Hazards to Humans and Domestic Animals**

**CAUTION.** Contains petroleum distillate. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks, shoes, and gloves.

### **Environmental Hazards**

This product is extremely toxic to fish and aquatic invertebrates, oysters, and shrimp. **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.

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 foraging the treatment area.

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.

### **Physical or Chemical Hazards**

**Contents under pressure. DO NOT** use or store near heat or open flame. **DO NOT** puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

## **Directions For Use**

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

### **Use Restrictions**

- **DO NOT** apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm.

- **DO NOT** apply to classrooms when in use.
- Cover or remove exposed food or water in the treatment area prior to application. Cover any food/feed contact surfaces and cooking utensils in the treatment area during treatment or thoroughly clean before using.
- **DO NOT** spray on plastic, painted, or varnished surfaces.
- **DO NOT** spray directly into any electronic equipment such as radios, televisions, computers, etc.
- **DO NOT** make outdoor applications during rain.
- **DO NOT** water the treated area to the point of runoff.
- **DO NOT** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or **Crack & 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 & 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 the 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 1 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.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food, or feed by storage or disposal.

### Pesticide Storage

Store in a cool, dry area away from heat or open flame and in an area that is inaccessible to children and animals.

### Pesticide Disposal

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

### Container Handling

**DO NOT** puncture or incinerate! **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

## In Case of Emergency

In case of large-scale spill of this product, call:

- CHEMTREC 1-800-424-9300
- BASF Corporation 1-800-832-HELP (4357)

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

## Product Information

This product is a ready-to-use, pressurized insecticide and contains 0.05% alpha-cypermethrin. Apply as a **Crack & Crevice**<sup>®</sup>, void, spot, or general surface application. Heavy applications may leave a visible deposit. On some surfaces this deposit can be removed with a damp cloth or sponge. Dispose of cloth or sponge in trash. Test for staining or other issues before applying to a new surface.

### Crack & Crevice Application

Use with the supplied actuator and injection tubes or other BASF equipment. Apply into cracks, crevices, or void spaces where listed insects may be harboring, living, and breeding. Place injector tip into cracks, crevices, holes, and other small openings. Release approximately 1 second of product. For light infestations, move injector tip along cracks while treating at the rate of 3 feet per second. For heavy infestations, move injector tip along at 1 foot per second. For closed voids, calculate the void's cubic area and treat at the rate of 1 to 5 seconds per 3 cubic feet. Several holes may be required in long-running voids.

## Spot Application

Use with the supplied actuator and injection tubes or other BASF equipment. Apply 1 second per 2 square feet. Hold container upright while spraying. Direct nozzle approximately 12 inches from surface to be treated. Apply directly on listed insects in these locations when possible. Limit individual spot treatments to 2 square feet.

### Reapplication Interval

Reapply as necessary but not more than twice per week. Applications must be at least 3 days apart.

### Quick Knockdown

This product provides quick knockdown of the following pests: Bees, Carpenter Ants, Cockroaches (American, German, Oriental), Firebrats, Harvester Ants (foragers), House Flies, Pharaoh Ants (foragers), Silverfish, Spiders (including Black Widow and Brown Recluse), and Wasps.

### Residual Control

- 90 days for house flies on ceramic tile (non-porous surfaces)
- 30 days for bed bugs on wood surfaces at 7 seconds per square meter (0.65 seconds per square feet)

## Indoor Applications

### Crawling Insects including Centipedes, Cockroaches, Crickets, Dermestids, Earwigs, Millipedes, Sowbugs, and Spiders (including Black Widow and Brown Recluse)

Apply as a **Crack & Crevice** treatment using the prescribed dosage into cracks, crevices, and void spaces where listed insects may be harboring, such as openings around pipes and sinks; under refrigerators; and behind baseboards, washing machines, stoves, cabinets, sewers, floor drains, and meter boxes. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors, and windows; around refrigerators, cabinets, sinks, stoves, and other equipment; shelves, drawers, and similar areas.

### Flies (House and Stable)

Inspect and treat where activity is detected including window frames, screens, trash cans, ceilings, and upper wall surfaces, contacting as many insects as possible. Offers residual control for 90 days on house flies on non-porous surfaces.

### Ticks

Apply as a **Crack & Crevice** or spot treatment into infested and egg laying sites near pet resting areas such as cracks and crevices of baseboards, and around door and window frames.

### Booklice\* and Silverfish

Apply as a **Crack & Crevice** treatment into cracks and crevices of baseboards, door frames, bookcases, and other harborage sites. Spot treatments may also be made to storage areas; closets; around water pipes, doors, and

windows; around refrigerators, cabinets, sinks, stoves, and other equipment; shelves, drawers, and similar areas.

\* Not registered for use in California.

#### **Ants**

Apply as a **Crack & Crevice**<sup>®</sup> treatment into cracks, crevices, and voids where ants may be traveling and/or harboring, such as around doors, window frames, wall voids, and other structural cracks and crevices. Spot treatments may also be made to storage areas; closets; around water pipes, doors, and windows; around refrigerators, cabinets, sinks, stoves, and other equipment; shelves, drawers, and similar areas.

#### **Bed Bugs and Bed Bug Eggs**

Apply where bed bugs harbor or are suspected of traveling. Treat the perimeter of the room at the wall/floor junction, behind and/or inside furniture, upholstered furniture, headboards, wall coverings, and box springs. Allow furniture and box springs to dry before use. When treating furniture (e.g., sofas and chairs), **DO NOT** apply to areas with prolonged human contact. When treating luggage, apply only to empty luggage. Direct product into pockets, seams, folds, and around wheels. Treat the perimeter of the area or room where items are stored. Allow surfaces to dry before use. Check for staining issues before treating by testing a small, inconspicuous area of the item to be treated. Reapply as necessary, but not more than twice per week. Applications must be at least 3 days apart. **DO NOT** use this product on mattresses, pillows, bed linens, or clothes. Not recommended for use as sole protection against bed bugs. If evidence of bed bugs is found in/on mattresses, use products approved for this use.

#### **Stored Product Pests (Exposed Adult and Immature Stages) and Hibernating Stages of Boxelder Bugs, Clover Mites, Cluster Flies, and Elm Leaf Beetles.**

Apply as a **Crack & Crevice** treatment into cracks, crevices, and/or voids where these insects may be harboring or hibernating. Infested areas may include cracks and crevices in cabinets and pantries, wall voids, around window and door frames, under siding, and in machinery. Spot treatments may also be made to areas such as storage areas; closets; around water pipes, doors, and windows; around refrigerators, cabinets, sinks, stoves, and other equipment; shelves, drawers, and similar areas.

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### **Food/Feed Handling Establishments**

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Food/Feed handling establishments are places other than private residences in which food is held, processed, prepared, or served, including those operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs. **APPLICATIONS OF THIS PRODUCT IN FOOD/FEEED AREAS OF FOOD/FEEED HANDLING ESTABLISHMENTS MAY BE MADE AS A CRACK & CREVICE, VOID, SPOT, OR GENERAL SURFACE APPLICATION.** General surface application may be used only when the facility is not in operation, provided exposed food/feed has been covered or removed from the area prior to application.

#### **Food/Feed Areas**

Include areas for receiving, serving, storing (dry, cold, frozen, raw), packing (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, grinding), edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups).

#### **Non-food/feed Areas**

Include areas such as garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage areas (after packaging, canning, or bottling).

Avoid contamination of food/feed or food/feed contact surfaces. Remove or cover food/feed, dishes, utensils, food processing equipment, and food preparation surfaces in the treatment area or wash them before use. Apply as a **Crack & Crevice**, void, spot, or general surface application to selective surfaces such as baseboards, under elements of construction, stainless steel equipment, shelving, machinery, storage areas, pallets, tables, chairs, and other areas where listed pests may be harboring, traveling, breeding, or entering the structure.

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### **Indoor and Outdoor Applications**

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#### **Wood Destroying Insects - Localized Treatment of Wood-Infesting Insects**

To treat Beetles and Borers (such as the following families: *Anobiidae*, *Bostrichidae*, *Buprestidae*, *Cerambycidae*, *Lyctidae*, *Oedemeridae*, and *Sesiidae*)\*, Carpenter Ants, Carpenter Bees, and Wood Wasps\*, locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, galleries, and inaccessible closed voids, or apply through pest-created openings. Drill holes 8 to 10 inches apart to ensure thorough coverage. Inject product at the rate of 5 to 10 seconds per hole. **DO NOT** contact electrical wiring, plumbing, etc. when drilling and never use metal wood injectors where electrical shock could occur. Use a standard plastic void injector if there is danger of electrical contact. For carpenter bees, seal bee entrances after application.

\* Not registered for use in California.

#### **Drywood Termites**

This treatment is intended to kill drywood termites on contact only. The purpose of such applications is to kill workers or winged reproductive forms which may be present in the treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment.

#### **Active and Hibernating Stages of Brown Marmorated Stinkbugs, Boxelder Bugs, Clover Mites, Cluster Flies, Elm Leaf Beetles, and Kudzu Bugs**

Apply as a **Crack & Crevice** treatment into cracks, crevices, and/or voids where these insects may be harboring or hibernating. Infested areas may include cracks and crevices, behind siding, wall voids, and around window and door frames.

### **Bees and Wasps**

Apply to exterior and/or interior of the nest and surrounding area, if possible. For treatment of nests inside wall voids, inject into the nest a sufficient quantity to treat the complete nest. More than one point of application may be required. **DO NOT** contact electrical wiring due to possible shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCKDOWN. THE BEST TIME TO TREAT IS LATE IN THE DAY. COLONY SHOULD BE DEAD IN TWO TO THREE DAYS. DEPENDING ON THE SITUATION, PROTECTIVE EQUIPMENT FOR THE APPLICATOR MAY BE REQUIRED TO HELP PREVENT STINGING.

### **Carpenter Ants in Stumps, Utility Poles, and Fences**

Treat open holes or drill horizontal holes in a circular pattern where insects are suspected. Inject 2 to 5 seconds of product per hole.

### **Treatment for In-ground Service Boxes**

Ants, Clover Mites, Cockroaches, Crickets, Earwigs, Millipedes, Silverfish, Sowbugs, Spiders (including Black Widow and Brown Recluse), and Springtails. Apply product using the injection tube to treat open boxes and exposed surfaces. **DO NOT** contact any electrical wiring or mechanical parts of meter.

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## **Outdoor Applications**

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### **Subterranean Ants such as Argentine Ants and Harvester Ants (foragers)**

Inject the nest at 3 to 6 sites at a rate of 5 to 10 seconds per site. For very large nests (over 36 inches in diameter), increase the number of injection sites. Space injection sites in a circular pattern on the nest's surface with one site in the center. To kill ants on the nest's surface, sweep surface with spray from a distance of 12 inches. Optimal application conditions are when the temperature is 65°F to 85°F or in early morning or late evening hours. Treat new nests as they appear.

### **Flies (House and Stable)**

Inspect and treat where activity is detected including outside surfaces of screens, doors, window frames, or wherever flies enter, contacting as many insects as possible. Treat known resting areas such as ceilings, upper corners of the area, around windows and doors, and other surfaces. Treat inside and outside surfaces of dumpsters and other trash holding containers. Treat trash storage areas. Also treat surfaces on porches, in garages, and other places where insects are known to congregate. Apply so as to lightly moisten the target surface, contacting as many insects as possible. For best results, begin treatments at the start of the fly season and repeat during periods of heavy fly activity. Reapply as necessary, but not more than twice per week. Applications must be at least 3 days apart. Offers residual control for 90 days on house flies on non-porous surfaces.

### **Perimeter Treatment**

For listed crawling insects, apply as a **Crack & Crevice®** or spot treatment into cracks and crevices where insects may enter premises or harbor, such as weep holes; under siding; wall voids; soffits; around attic vents, cracks and crevices; and openings around windows, doors, and pipes. Treatment of infested fences and tree holes is permitted.

### **Carpenter Ants Living Inside Trees**

Determine the highest and lowest elevation of the colony. Drill holes into the colony at highest elevation and inject product for 5 to 10 seconds. Do the same for lowest elevation. Drill intermediate holes every 4 feet between the upper and lower elevations, if required.

### Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer. BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer and User accept it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF. PCS915

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Federal regulations prohibit CFC propellants in aerosols.



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