

GROUP

3

INSECTICIDE

COMMERCIAL

**PRELUDE 240®**  
Synthetic Pyrethroid Insecticide  
Emulsifiable Concentrate

Prelude 240 Synthetic Pyrethroid insecticide is to be used for residual control of listed insect pests for:

- A. Inside Buildings and Modes of Transport;
- B. Outdoor Treatments on the Exterior Surfaces and Perimeter of Buildings and Porches/Patios;
- C. Treating Wooden Structures;
- D. Listed General Outdoor Uses Around Buildings;
- E. Sawn lumber for export to Australia and
- F. Termite Control (Restricted Use).

ACTIVE INGREDIENT: Permethrin ... 240 g per litre

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

In Case of Emergency Endangering Life or Property Involving this Product, Call Day or Night 1-888-681-4261

CAUTION



POISON

**WARNING: SKIN IRRITANT**  
**CAUTION: EYE IRRITANT**

Store above 0°C

REGISTRATION NO. **26509**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L, 5 L, 10 L, 55 L, 115 L, 450 L, 1000 L, Bulk**



AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660 U.S.A.  
**1-888-GO-AMVAC (1-888-462-6822)**

## NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

## FIRST AID

**IN CASE OF POISONING**, contact a physician or a poison control centre IMMEDIATELY. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**DANGER** - This product contains a petroleum distillate.

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre 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 centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

## TOXICOLOGICAL INFORMATION

This product contains a petroleum distillate. Skin exposure may cause transient sensations (tingling, burning, itching, numbness). Treat symptomatically for ingestion, skin and eye contact. Do not induce vomiting. Vomiting may cause aspiration pneumonia.

## PRECAUTIONS

**KEEP OUT OF REACH OF CHILDREN.** Do not leave mixing tank or hoses containing PRELUDE 240 Synthetic Pyrethroid Insecticide unattended during mixing or treatment. Avoid breathing vapours or spray mist. Causes skin irritation. Avoid contact with skin.

For mechanically-pressurized handheld sprayer for mists, aerosols, and fogs applications, or entering treated areas before venting, wear chemical-resistant coveralls with a chemical-resistant hood over long pants, and long-sleeved shirt, chemical-resistant gloves, socks, chemical-resistant footwear, and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair.

For mechanically pressurized handgun applications, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides, cotton coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes during mixing, loading, application, clean-up and repair.

For other application equipment wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides, long pants, long-sleeved shirt, chemical-resistant gloves, shoes, and socks during mixing, loading, application, clean-up and repair, unless otherwise specified.

## ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms. Toxic to birds.

Toxic to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance *Protecting Pollinators during Pesticide Spraying – Best Management Practices* on the Health Canada website ([www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Permethrin may impact predatory and parasitic arthropod

species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast.

### **STORAGE**

Store at temperatures above 0°C (32°F). If separation occurs, and less than entire contents of container are to be used, allow to warm to 13°C (55°F) by room heating only and shake well to make uniform. If crystals form, warm to room temperature [21°C (70°F)] by room heating only for 24-48 hours and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming container. Do not use or store near heat, open flame or hot surfaces.

**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 container. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

### **DECONTAMINATION AND DISPOSAL**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

### **CONTAINER DISPOSAL OR REFILLING**

**For recyclable containers:** Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**For refillable containers:** For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 888-681-4261 (AMVAC)***

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COMMERCIAL

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**If splashed in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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## PRECAUTIONS

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For mechanically-pressurized handheld sprayer for mists, aerosols, and fogs applications, or entering treated areas before venting, wear chemical-resistant coveralls with a chemical-resistant hood over long pants, and long-sleeved shirt, chemical-resistant gloves, socks, chemical-resistant footwear, and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair.

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For other application equipment wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides, long pants, long-sleeved shirt, chemical-resistant gloves, shoes, and socks during mixing, loading, application, clean-up and repair, unless otherwise specified.

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Toxic to bees. Bees may be exposed through direct spray, spray drift, and residues on leaves, pollen and nectar in flowering crops and weeds. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance *Protecting Pollinators during Pesticide Spraying – Best Management Practices* on the Health Canada website ([www.healthcanada.gc.ca/pollinators](http://www.healthcanada.gc.ca/pollinators)). Follow crop specific directions for application timing.

Toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland. Permethrin may impact predatory and parasitic arthropod species used in IPM programs within the treatment area. Unsprayed refugia for beneficial species of at least 1 metre from treatment area will help maintain beneficial arthropod populations.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast.

### **STORAGE**

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2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**For refillable containers:** For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING CALL 1-888-681-4261***

### **DIRECTIONS FOR USE**

#### **General Information:**

Prelude 240 Synthetic Pyrethroid insecticide contains permethrin, which is a synthetic pyrethroid. It controls a broad spectrum of pests that are listed in the accompanying sections of this label. Permethrin provides rapid knockdown of listed insect pests. Although the synthetic process has increased the stability of permethrin giving it residual properties, it is still degraded by the ultraviolet rays of the sun. This results in a relatively short residual life in the presence of sunlight; however, when protected from the sun, permethrin contained in Prelude 240 Synthetic Pyrethroid insecticide will provide residual activity against listed insects. Within the specified use location, to enhance effectiveness of this product, apply this product directly to the listed pest where possible.

Prelude 240 Synthetic Pyrethroid insecticide is to be used for residual control of listed insect pests for:

- A. Inside Buildings and Modes of Transport;
- B. Outdoor Treatments on the Exterior Surfaces and Perimeter of Buildings and Porches, Patios and Decks;
- C. Treating Outdoor Wooden Structures;
- D. Listed General Outdoor Uses Around Buildings;
- E. Sawn lumber for export to Australia (Restricted Use) and
- F. Termite Control (Restricted Use).

**SHAKE WELL BEFORE USING.**

**Restrictions for All Uses:**

- To protect pollinators, follow the instructions regarding bees in the ENVIRONMENTAL PRECAUTIONS section.
- As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
- DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- DO NOT apply undiluted.
- Where multiple applications are allowed, treatment must only be repeated if pest problem persists or reoccurs. DO NOT exceed the application rate and number applications per year for each use. Follow the re-application interval for each use.
- Dilute Prelude 240 Synthetic Pyrethroid insecticide with clean water only.
- DO NOT apply to people, pets, livestock or sources of electricity.
- DO NOT apply when people, pets, or livestock are present.
- DO NOT allow people, pets or livestock to enter treated areas until the sprays have dried.
- DO NOT store near feed or foodstuffs.
- DO NOT apply by air.
- DO NOT tank mix this product with any other product.
- DO NOT use, pour, spill, or store near heat or open flame.
- DO NOT contaminate food/feed. DO NOT spray food/feed or food/feed packages. DO NOT apply when a food/feed processing facility is in operation. Remove or cover all food/feed. Remove or cover all food/feed processing surfaces, equipment and utensils or thoroughly wash them following treatment. Any food/feed accidentally contaminated with spray solution must be discarded.
- DO NOT allow spray to drip or allow drift onto non-target surfaces.
- Unless otherwise stated on this label, DO NOT apply to furniture, mattresses, linens, toys or clothing.
- In indoor areas, DO NOT apply to overhead areas or in confined spaces without appropriate respiratory and eye protection.
- In indoor areas, ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.
- DO NOT apply Prelude 240 Synthetic Pyrethroid insecticide using any type of fogging or aerosol equipment (i.e. equipment which delivers a spray with a volume median diameter (VMD) of 50 µm or less).
- For structural applications, use a coarse droplet size and low pressure spray not exceeding 345 kPa (50 psi) to avoid splashing onto non-target surfaces unless otherwise stated on this label.
- DO NOT apply as a space spray.
- Do not plant food crops in soil adjacent to building where there has been a PRELUDE 240 Synthetic Pyrethroid Insecticide application.

**A. Instructions For Inside of Buildings And Modes of Transport (e.g., Aircrafts, Ships, Trains and Trucks):**

**How to Apply Inside Buildings and Non-passenger Areas in Modes of Transportation Vehicles (e.g., Aircrafts, Ships, Trains and Trucks):**

DO NOT APPLY AS A SPACE SPRAY. APPLY AS AN INDOOR PERIMETER, SPOT, CRACK AND CREVICE OR VOID TREATMENT. INDOOR BROADCAST TREATMENTS ARE PERMITTED IN NON-FOOD/NON-FEED HANDLING ESTABLISHMENTS\* AND NON-RESIDENTIAL\*\* BUILDINGS ONLY. These methods can be used on indoor building surfaces or non-passenger modes of transport surfaces, including baseboards; dark corners of rooms and closets; walls and floors behind and beneath appliances (e.g., stoves, refrigerators) and cabinets and around sinks, garbage cans, plumbing and other utility installations (excluding electricity) and where these pests may enter such as along door and window sills. Within the specified use location, to enhance effectiveness of this product, apply this product directly to the listed pest where possible.

Indoor Perimeter: Indoor perimeter application is less than 0.3 m wide along the edges of a room to baseboards, wall-floor and ceiling-wall joints, and around doorways or windows.

Spot Treatment: Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area of a room.

**Crack and Crevice:** Crack and crevice is an application directly into narrow openings on the surface of the structure. It does not include the treatment of exposed surfaces. Narrow openings typically occur at expansion joints, utility entry points (excluding sources of electricity or heat) and along baseboards and mouldings. Sprayer nozzles capable of delivering a pin stream should be used in points between different elements of construction and between equipment and floors.

**Void:** Void application applies to inaccessible, enclosed empty spaces of a structure or equipment legs. For example, hollow walls and suspended ceilings. Care should be taken to avoid the pesticide exiting the void. Any residue deposits on non-target surfaces must be removed by the applicator. Sprayer nozzles capable of delivering a pin stream should be used for openings leading to hollow spaces in walls and hollow spaces in equipment legs.

**Indoor Broadcast (Permitted only in non-food/non-feed handling establishments\* and non-residential\*\* structures): DO NOT apply indoors in food/feed handling establishments\* and residential\*\* areas as a broadcast application. Indoor broadcast application in non-food/non-feed handling establishments\* and non-residential\*\* buildings is to broad expanses of indoor structural surfaces, such as walls, floors, ceilings and indoor foundation walls/crawlspace.**

\*\*Residential areas are defined as any use site where the general public, including children, could be exposed during or after application. For structural uses, in residential sites, this includes homes, schools, restaurants, public buildings, modes of transport in areas where passengers are present, or any other areas where the general public including children may potentially be exposed.

**Additional Restrictions Relevant To Use Inside Buildings and Non-passenger Areas in Modes of Transportation Vehicles (e.g., Aircrafts, Ships, Trains and Trucks):**

- DO NOT apply this product in nurseries, patient rooms or rooms for the infirm.
- In food/feed handling establishments\*, application is limited to close-down periods only. During close-down periods, application is limited to void, spot or crack and crevice treatments only. Treat between different elements of construction such as, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases where listed pests hide. After spraying, wash all surfaces that may contact food/feed thoroughly and soap before re-use for food processing, preparation or serving.
- \*A food/feed handling establishment is a place other than private residences in which food/feed is held, processed, prepared and/or served. Non-food/feed areas of food/feed handling establishments includes garbage rooms, lavatories, floor drains to sewers, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage for canned, bottled or packaged products. Food/feed areas of food/feed handling establishments includes areas of receiving; serving; storing of dry, cold, frozen or raw foods/feed; packaging such as canning, bottling, wrapping and boxing; preparing such as cleaning, slicing, cooking and grinding; storing edible waste and enclosed processing systems such as mills, dairies, edible oils and syrups.
- In livestock facilities: DO NOT reapply this product for at least 14 days. Treatment must only be repeated after 14 days if pest problem persists or reoccurs. Livestock returned to treated areas cannot be slaughtered for a minimum of 7 days after the treatment was applied to the livestock facility. DO NOT exceed 12 applications per year.

**Additional Restrictions Relevant To Use Inside Buildings and Non-passenger Areas in Modes of Transportation Vehicles (e.g., Aircrafts, Ships, Trains and Trucks):**

Pest	Location of Use	Application Method (See How to Apply for Further Information)	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Notes for specific pests:
Ants	Buildings (any type) and Non-passenger areas in Modes of Transportation	Indoor Perimeter, Spot, Crack and Crevice, and Void	0.5%: 42 mL product/2 L of water	0.4 L of diluted product/m <sup>2</sup>	7 days  In livestock facilities: 14 days	Apply to ant trails, around doors and windows, and wherever else these pests may find entrance into the building.
Bed Bugs						DO NOT apply to furniture, mattresses, linens, pet bedding, toys or clothing.
Bees		Broadcast (Non-residential areas only)				For nest control, apply in late evening when insects are at rest. Aim spray at nest openings or in cracks and crevices which may harbour nests. Saturate nest openings, contacting as many



Pest	Location of Use	Application Method (See How to Apply for Further Information)	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Notes for specific pests:
						insects as possible.
Brown Dog Ticks						DO NOT apply to furniture, mattresses, linens, toys or clothing. Apply to indoor building surfaces, including cracks and crevices in walls and floors, along and behind baseboards, window and door frames, and localized areas of floor and floor coverings. Pet bedding may be entirely treated with this product or replaced with clean, fresh bedding after other listed areas are treated. DO NOT SPRAY PETS WITH THIS PRODUCT. Only treat pets with products specifically registered for use on that type of pet. For effective flea and tick control indoors, clean any area used by the pet. Cleaning the areas includes vacuuming floors, carpets, furniture, etc. (discard vacuum bag after use) and washing the pet's bedding, living quarters, and surrounding area.
Carpenter Ants						Ant infested wood may be drilled and injected with Prelude 240 Synthetic Pyrethroid insecticide.
Carpet Beetles						
Cockroaches						
Crickets						
Earwigs						
Firebrats						
Fleas						DO NOT apply to furniture, mattresses, linens, toys or clothing. Apply to indoor building surfaces, including cracks and crevices in walls and floors, along and behind baseboards, window and door frames, and localized areas of floor and floor coverings. Pet bedding may be entirely treated with this product or replaced with clean, fresh bedding after other listed areas are treated. DO NOT SPRAY PETS WITH THIS PRODUCT. Only treat pets with products specifically registered for use on that type of pet. For effective flea and tick control indoors, clean any area used by the pet. Cleaning the areas includes vacuuming floors, carpets, furniture, etc. (discard vacuum bag after use) and washing the pet's bedding, living quarters, and surrounding area.
House Flies						

Pest	Location of Use	Application Method (See How to Apply for Further Information)	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Notes for specific pests:
Indian Meal Moth						
Silverfish						
Spiders						
Wasps, including yellowjackets and hornets						For nest control, apply in late evening when insects are at rest. Aim spray at nest openings or in cracks and crevices which may harbour nests. Saturate nest openings, contacting as many insects as possible.
Cluster flies House Flies	Inside barns, chicken houses and livestock living areas only	Crack and Crevice, Indoor Perimeter, Spot, Indoor Structural Broadcast	0.5%:42 mL product/2 L of water	2 L of diluted product/100m <sup>2</sup>	14 days	In dairies, apply only when not in operation. Thoroughly clean all milking equipment before resuming operation. DO NOT exceed 12 applications per year. Remove animals before treatment. DO NOT contaminate food, feed or water. DO NOT apply directly to animals or poultry. Livestock returned to treated areas cannot be slaughtered for a minimum of 7 days after the treatment was applied to the livestock facility. Apply as a residual treatment directly to inside surfaces including walls, ceilings, beams and other building surfaces where flies rest or may enter. Apply Prelude 240 Synthetic Pyrethroid insecticide at the rate of 42 mL of product per 100m <sup>2</sup> of surface, in sufficient water to obtain thorough coverage. The amount of spray required to obtain thorough coverage can be determined by first using only water. NOTE: Good sanitation is essential for good fly control, including elimination of fly breeding sites.

**B. Instructions For Outdoor Treatments on the Exterior Surfaces\*\*\* and Perimeter of Buildings and Porches/Patios:**

\*\*\*: Outdoors on the exterior surfaces of buildings includes, but is not limited to, exterior siding, foundations, window frames and eavestroughs. For outdoor application on the exterior surfaces of buildings (with the exception of outdoor perimeter applications), DO NOT treat soil, turf or other plants adjacent to the structure.

Vinyl and Aluminum Siding: The application of Prelude 240 Synthetic Pyrethroid insecticide to vinyl and aluminum siding (particularly lightly colored, aged, weathered or otherwise damaged) may result in staining, bleaching or discoloration. Factors such as extreme heat and direct sunlight can promote damage when using emulsifiable concentrates. Before applying Prelude 240 Synthetic Pyrethroid insecticide to vinyl or aluminum siding, treat a small area and evaluate 30 minutes later to allow any potential staining to occur. Regardless of the test results, do not apply to vinyl or aluminum siding while exposed to direct sunlight or during the heat of the day.

**How to Apply For Outdoor Treatments on the Exterior Surfaces\*\*\* and Perimeter of Buildings and Porches, Patios and Decks:**

APPLY AS AN OUTDOOR PERIMETER OR SPOT TREATMENT ONLY. OUTDOOR BROADCAST

TREATMENTS ARE PERMITTED FOR CLUSTER FLIES ONLY.

Outdoor Perimeter: Outdoor perimeter application is 1 m or less out from the building’s foundation and to a maximum height of 1 m starting at where the foundation meets the ground. In areas where mulch or leaf litter or dense foliage is present, the highest rate of diluted product permitted for this use may be needed to achieve thorough coverage.

Spot Application: Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area treated. Apply as a pin-stream or spray with a coarse droplet size and low-pressure spray not exceeding 345 kilopascals (50 psi) or with a paintbrush to avoid splashing onto non-target surfaces. Treat where pests are found on the surface of the building, porch, patio or deck or at entry points of the building such as window frames or doorframes.

Void: Void application applies to inaccessible, enclosed empty spaces of a structure. Care should be taken to avoid the pesticide exiting the void. Any residue deposits on non-target surfaces must be removed by the applicator.

Outdoor Structural Broadcast (Cluster flies only): Outdoor broadcast application is to large outdoor structural surfaces (i.e. roofs, walls, doors, windows and foundations).

**Additional Instructions For Pests Controlled Outdoors on the Exterior Surfaces\*\*\* and Perimeter of Buildings and Porches, Patios and Decks:**

Pest	Application Method (See How to Apply for Further Information)	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Notes for specific pests:
Ants	Outdoor Perimeter, Spot, Voids	0.5%:42 mL product/2 L of water	10 L diluted spray/100 m <sup>2</sup>	14 days	
Bees					For nest control, apply in late evening when insects are at rest. Aim spray at nest openings or in cracks and crevices which may harbour nests. Saturate nest openings, contacting as many insects as possible. This includes treatment of nests found in the voids of structures.
Carpenter Ants					
Cockroaches					
Crickets					
Earwigs					
Firebrats					
Fleas					
Gypsy moths (adults and larvae)					Gypsy Moth Caterpillars: Spray directly onto gypsy moth caterpillars found on exterior surfaces of buildings or porches, patios and decks.
House flies					
Silverfish					
Spiders					
Wasps, including yellowjackets and hornets					For nest control, apply in late evening when insects are at rest. Aim spray at nest openings or in cracks and crevices which may harbour nests. Saturate nest openings, contacting as many insects as possible. This includes treatment of nests found in the voids of structures.
Cluster flies	Outdoor Perimeter, Spot, and Outdoor Structural Broadcast	0.5%:42 mL product/2 L of water	10 L of diluted product/100m <sup>2</sup>	14 days	Cluster flies are members of the Order (Diptera) and resemble house flies. They are distinguished by their sluggish and erratic behaviour and by wings that overlap when at rest. They derive their name from their habit of entering a building in the fall and clustering together to overwinter. The search for protected places to overwinter begins as days shorten in mid-August. Warm sunny walls draw the flies as the climate cools during this search. This offers an opportunity to control the fly population outside the building.  Spray this mixture to the exterior walls including under the eaves, soffits and window trim. The effective time of application is between mid-August and the end of September depending on weather conditions.

**C. Instructions For Treating Outdoor Wooden Structures:**

**How to apply to outdoor wooden structures:**

**Spot Application:** Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area treated.

**Void:** Void application applies to inaccessible, enclosed empty spaces of a structure. For example, hollow walls and suspended ceilings. Care should be taken to avoid the pesticide exiting the void. Any residue deposits on non-target surfaces must be removed by the applicator.

**Outdoor Structural Broadcast (Outside surfaces of wooden structures only):** Outdoor broadcast application is to large outdoor structural surfaces. Broadcast with a fan spray using a maximum pressure of 170 kilopascals.

**Sub-surface injection (Installed posts, poles and other wooden constructions only):** Previously installed poles and posts may be treated by sub-surface injection. Treat on all sides to create a continuous insecticidal barrier around the pole. Inject to a depth of 15 cm below the bottom of the wood. For larger constructions, use 15 litres per 3 linear metres per 30 cm of depth.

**Trench (Installed posts, poles and other wooden constructions only):** Previously installed poles and posts may be treated by digging a trench. Treat on all sides to create a continuous insecticidal barrier around the pole. Apply to a depth of 15 cm below the bottom of the wood. For larger constructions, use 15 litres per 3 linear metres per 30 cm of depth.

**Additional Restrictions Relevant To Treating Outdoor Wooden Structures:**

DO NOT apply to firewood.

**Additional Instructions For Pests Controlled When Treating Outdoor Wooden Structures:**

Location	Pest	Application Method	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Instructions:
Inside infested outdoor wooden structures	Carpenter ants	Spot, Void	0.5%: 42 mL product/2 L of water	1 L of diluted spray per 10 m <sup>2</sup>	14 days	<p>This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of the listed insects.</p> <p>Apply to voids and insect galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used.</p> <p>Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawlspaces.</p> <p>Application may be made to inaccessible areas by drilling, and then injecting emulsion with a pinstream nozzle into the damaged wood or void space.</p>
	Wood-infesting beetles, including old house borer and powder post					
Installed posts, poles and other wooden constructions (e.g., signs, fences, landscape ornamentation)	Carpenter ants	Soil barrier treatment by sub-surface injection or trench	0.5 to 1%: 42-84 mL product/2 L of water	15 litres per 3 linear metres per 30 cm of depth	14 days	<p>Create an insecticidal barrier in the soil around wooden constructions.</p> <p>Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Apply to a depth of 15 cm below the bottom of the wood. For larger constructions, use 15 litres per 3 linear metres per 30 cm of depth.</p>
Utility poles and fence posts	Carpenter ants, Wood-infesting beetles, including old house borer and	Void	0.5%: 42 mL product/2 L of water	1 L diluted product/10 m <sup>2</sup>	14 days	<p>Drill to find the interior infested cavity and inject a 0.5% emulsion.</p>

Location	Pest	Application Method	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Instructions:
	powder post					
Outside surfaces of wooden structures	Carpenter ants Wood-infesting beetles, including old house borer and powder post	<u>Outdoor Structural Broadcast</u>	<u>0.5%</u> : 42 mL product/2 L of water	15 litres per 3 linear metres per 30 cm of depth	14 days	Use a fan spray using a maximum pressure of 170 kilopascals.

**D. Instructions for Listed General Outdoor Uses:**

**Restrictions Relevant To General Outdoor Uses Around Buildings:**

- DO NOT apply as a broadcast treatment to lawns or other large areas.
- DO NOT apply Prelude 240 Synthetic Pyrethroid insecticide using any type of fogging or aerosol equipment (i.e. equipment which delivers a spray with a volume median diameter (VMD) of 50 µm or less).

**Instructions For Pests Controlled - General Outdoor Uses Around Buildings:**

Location	Pest	Application Method	Concentration	Maximum Rate of Diluted Product	Minimum Reapplication Interval	Instructions:
Below ground and in bushes/trees	Nests of: Bees and Wasps (including hornets and yellowjackets)	Spray by ground application equipment	<u>0.5%</u> : 42 mL product/2 L of water	10 - 40 L of diluted product/100m <sup>2</sup>	14 days	Apply in late evening when insects are at rest. Spray nest openings until saturation, contacting as many insects as possible.
Treatment of shrubs, evergreens and tall grass found along property boundaries of homes, and other associated private residential buildings**. Not for use around public residential** facilities (e.g., parks).	Adult Mosquito Control	Property Perimeter Spray by ground application equipment	<u>0.5%</u> : 210 mL product / 10 L of water	10 - 40 L of diluted product/100m <sup>2</sup>	7 days	Apply a 1 to 3 m wide band around the perimeter of the property to shrubs, evergreens and tall grass where mosquitoes generally congregate. Apply spray solution until foliage is wet. Do not apply within 15 m of any body of water.
Ornamental Tree Trunks and Woody Ornamentals	Bark Beetles Borers Gypsy moths	Spray by ground application equipment	<u>0.5%</u> : 210 mL product / 10 L of water	10 - 40 L of diluted product/100m <sup>2</sup>	N/A	Gypsy Moth Caterpillars: Spray tree trunks to the point of run-off. Borers and Bark Beetles: To prevent borer infestation of trees and woody ornamentals, spray the bark to the point of run-off. DO NOT apply more than 1 application per year.
Refuse dumps, soil, and residential lawns only	Ant Mounds	Drench by ground application equipment	<u>0.5%</u> : 42 mL product/2 L of water	4 to 7 L of emulsion per mound	7 days	Treat each ant mound and a 1-metre diameter circle around the centre of each mound until it is wet. Use the higher rate for mounds larger than 30 cm. For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

**E. Instructions for sawn lumber for export to Australia**

**NOTE TO USER**

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than AMVAC under the User Requested Minor Use Label Expansion program. For these uses, AMVAC has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

**DIRECTIONS FOR USE – for control of Ambrosia and woodboring beetles in sawn lumber for export to Australia**

PEST	Concentration	RATE
Ambrosia and wood boring beetles	Dilute 1:200 with water to apply at the rate indicated in this table	0.10 mg PRELUDE 240 Synthetic insecticide/m <sup>2</sup>

Apply in a totally enclosed linear system with recovery of the run-off spray. Treated wood must be protected from rainfall between treatment and sailing.

**PRECAUTIONS**

Wear chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, goggles or face shield, socks, and chemical-resistant footwear when handling the concentrate or during mixing/loading, application, clean-up, maintenance and repair activities. Use a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides if the area is not well ventilated and during clean-up, maintenance, and repair activities.

When piling freshly treated lumber or if there is a potential for getting wet by the treating solution or by handling freshly treated lumber, wear chemical-resistant coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, socks and chemical-resistant footwear.

When working in the dip or spray area, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and boots. Wear goggles or face shield if there is a possibility of splashing. Once dry, the treated wood can be handled with cotton or leather gloves.

Wash hands and face before eating, drinking, smoking and using the toilet. Change clothes daily. Wash contaminated clothing separately from household laundry. Not for use or storage in or around the home. Clean contaminated equipment thoroughly prior to making welding repairs.

When treating lumber in the mill, the treatment site must have contamination and pollution abatement technology to ensure that the pesticide is not released into the environment under normal operating conditions. Freshly treated wood shall be handled and stored in a manner, which provides no opportunity for the product to be released into the environment.

**F. For termite control (Restricted Use).**

**NOTICE TO USER**

This control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

**NATURE OF RESTRICTION**

For use only by licensed pest control operators authorized with permits by government for control of subterranean termite populations infesting buildings; for use only in areas designated as being termite infested areas. Not for sale to the general public for this use.

**RESTRICTED USES**

For control or prevention of subterranean termite infestations in buildings or masonry structures by pest control operators licensed under Provincial authority. PRELUDE 240 Synthetic Pyrethroid Insecticide is to be applied as a 0.5 to 1% emulsion in water as a pre-treatment on new construction or as a treatment to existing structures according to the accompanying DIRECTIONS FOR USE

Use only as much PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion as necessary to form a continuous barrier against termite invasion. PRELUDE 240 Synthetic Pyrethroid Insecticide can be applied only after proper site preparations, including removal of all wood/soil contact, have been completed. See site preparation-New construction and existing structures below for more details. Attention should be paid to applicator safety and proper handling procedures of Prelude 240 synthetic Insecticide. Follow all precautions, personal protective equipment and label directions.

Consideration of the design of the structure, water table, soil type, soil compaction, grade condition and location and

type of domestic water supplied will determine proper application methods. During and after treatment, **clean-up of any spills is mandatory** and drill holes must be properly sealed. Refer to the DECONTAMINATION AND DISPOSAL section on how to clean up spills.

**Mixing Instructions:** Prior to mixing, inspect mixing tank, pumps, hoses and all fittings to ensure that all sprayer equipment is in good working order and that there are no leaks. See Dilution Instructions section below for volume details to make a 0.5% and 1.0% emulsion. Mix by agitation and maintain gentle continuous agitation during application period. All PRELUDE 240 Synthetic Pyrethroid Insecticide applications are to be made through a vertical rod with pressure from 200 to 350 kilopascals. Do not leave the mixing tank unattended during mixing or application periods.

**Dilution Instructions:** Shake well before using. To prepare the emulsion, dilute PRELUDE 240 Synthetic Pyrethroid Insecticide with water only. To make small volumes of a 0.5% emulsion, mix 84 ml of PRELUDE 240 Synthetic Pyrethroid Insecticide in 4 litres of water or 168 ml of PRELUDE 240 Synthetic Pyrethroid Insecticide in 4 litres of water to achieve a 1.0% concentration. To make larger volumes of a 0.5% emulsion, mix 21 litres of PRELUDE 240 Synthetic Pyrethroid Insecticide with 1000 litres of water or 42 litres of PRELUDE 240 Synthetic Pyrethroid Insecticide with 1000 litres of water to achieve a 1.0% concentration.

**Site Preparation:** PRELUDE 240 Synthetic Pyrethroid Insecticide can control subterranean termites only when applied after proper site preparation.

**New Construction:** Remove all wood and cellulose debris from property prior to erecting forms for pouring concrete. After pouring concrete slabs, walls, piers, etc., remove all framework wood from the building site. Do not use back fill containing wood or cellulose. It is important that new construction has a minimum wood-to-soil clearance of 50 cm in order to discourage termite invasion.

**Existing Structures:** Replace wood infested and damaged beyond repair and where there is wood/soil contact. Correct conditions leading to abnormally high moisture in and around the structure, e.g., grading, eaves troughing, etc. Break wood-soil contact by the following measures:

- Remove all loose wood and other cellulose debris from property around the structure to be protected.
- Ensure adequate clearance (50 cm) exists between soil and structural wood or support posts under porches or in crawl spaces. Excavate and pour new concrete piers if necessary. Wooden support posts can be replaced with steel jack posts. Windowsills below grade level require alteration employing a window well to retain soil.
- Outdoor, wooden stair supports should be severed 10-15 cm above soil level and supported by concrete slabs or blocks.
- Where wooden siding is used, lower grade to expose a minimum of 15 cm of foundation wall.
- Repair all cracks or other points of entry for termites in foundation walls or concrete floors (e.g., expansion jackets, crevices, weeping tiles, utility holes, etc.) with a commercial sealant - preferably concrete.
- Ventilate soil-surfaced crawlspaces under porches or living areas after application either by opening windows and doors or using fans, where required to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.

#### **PRELUDE 240 Synthetic Pyrethroid Insecticide APPLICATION**

**Pre-treatment of New Construction.** A 0.5% to 1.0% PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion should be applied to the soil underneath and around concrete slabs, foundations, crawl spaces, piers, etc., so as to provide a continuous chemical barrier against termite invasion. All product is to be applied by rodding. Flooding or percolating hose application is not permissible. Soil crawl spaces must be covered with a plastic vapour barrier after treatment. Ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.

**Slab on Ground** Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per m<sup>2</sup> under the slab, attached porches and platforms before the concrete is poured, but after any forms are erected. The emulsion should be applied by rodding at 1.0 m intervals.

1. Apply 6 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per linear metre to the following critical areas under the slab before the concrete is poured: outside of foundation walls, under interior partition walls, under any footings and around utility services or other features that will penetrate

the slab.

2. If necessary to complete a chemical barrier, inject 1.3 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion into voids of all unit masonry foundation walls or piers at 0.5 m intervals. Cap voids with a vapour barrier in order to seal in chemical. Seal drill holes with good quality plugs and mortar.

**Basement and Crawl Space Construction:** Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per m<sup>2</sup> under basement or crawl space slab and attached porches and platforms prior to pouring concrete, but after forms are erected. The emulsion should be applied by rodding at 1.0 m intervals.

1. Apply 6 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per linear metre to the following critical areas under the basement slab or under a crawl space prior to construction: along outside edges of foundation walls, under interior partition walls, under or around piers, under footings, under stairway stringers, around utility services or other features that will penetrate the slab.
2. Inject 1.5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion into voids of all unit masonry foundation walls or piers at 0.5 m intervals. Cap walls or piers with a vapour barrier in order to seal in chemical. Seal drill holes with plugs and mortar.
3. During back filling, apply 12 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per linear metre to soil at a distance of approximately 30 cm from the outside of the foundation wall from top of footings to grade. Treat by rodding at 20 - 30 cm intervals.
4. Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per m<sup>2</sup> to soil under crawl space by rodding at 1.0 m intervals. Cover treated soil with vapour barrier, and provide a minimum clearance of 50 cm. Ventilate treated areas after application either by opening windows and doors or using fans, where required, to aid in the circulation of air. Air exchange/ventilation systems confirmed to be operational may also be used.

**Existing Structures:** PRELUDE 240 Synthetic Pyrethroid Insecticide applications can be made to existing structures to discourage further or future termite damage in areas designated as being termite infested. Follow directions for site preparation above. PRELUDE 240 Synthetic Pyrethroid Insecticide should be applied to soil along the exterior perimeter and along the interior perimeter of the foundation, along partition walls, around support piers and stairway stringers. PRELUDE 240 Synthetic Pyrethroid Insecticide should be applied using a 0.5% to 1.0% emulsion to the interior of foundation wall voids and support pier voids. Treat wall voids from outside wherever possible using a 0.5% to 1.0% emulsion. Up to 1.0% emulsion may be used in critical areas and areas which will be difficult to treat. Apply chemical emulsion at a pressure of 200-300 kilopascals through rods or sub-slab injector. Reduce pressure in hard soils.

**Treatment of Exterior Foundation Perimeter:** Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per linear metre/25 cm of penetration depth above grade to top of footing by rodding or injecting at 25-30 cm intervals. PRELUDE 240 Synthetic Pyrethroid Insecticide must be applied so as to create an even barrier from grade down to the top of footing.

- Concrete, asphalt or block sidewalks, driveways, patios, etc., adjacent to foundation must be drilled prior to rodding in chemical.
- If the post contains a void, inject emulsion into the void via a sub-slab injector at a rate of 7.5 litres emulsion/linear metre.

**Treatment Along Interior Walls of Foundation:**

**Concrete floor:** Drill holes at 30 to 40 cm intervals, 15-30 cm from the foundation and apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per hole (7.5 litres/linear metre) with a sub-slab injector. Plug and seal drill holes with good quality mortar.

**Soil Floor:** Excavate and level soil in order to provide sufficient clearance to allow rodding of chemical. Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per hole by rodding at 30 to 40 cm intervals from the foundation (7.5 litres/linear metre). Vents must be installed to provide sufficient ventilation for crawl spaces. Treated soil must be covered by a vapour barrier (concrete or polyethylene) under living space areas.

**Treatment of Wall Voids of Foundation:** Drill holes at 25 to 50 cm intervals just above grade level on the exterior surface of hollow foundation walls if possible (block construction, rubble walls, etc.). Inject 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per 0.5 linear metre via a sub-slab injector.

**Treatment Along Interior Partition Walls:** A basement partition wall extending into or through a concrete floor



should be treated through a series of holes at 30-40 cm intervals on both sides of the wall. Apply 7.5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per linear metre with a sub-slab injector. A basement partition wall set on a slab floor should be treated as above but only on one side of the wall.

**Support Posts and Piers:** Apply 6 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion per m<sup>2</sup> to the base of support posts via a sub-slab injector for a concrete floor and via rodding for soil floors. If the post contains a void, inject emulsion into the void via a sub-slab injector at a rate of 7.5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide emulsion/linear metre.

**Treatment of Wood in Place for Control of Termites (Localized Areas of Structures): SPOT TREATMENT ONLY:** Spot application is localized to a surface area not more than 0.2 m<sup>2</sup>. Spots are not to be adjoining. The combined area of spots is not to exceed 10% of the total surface area treated. For the control of termite carton nests in localized areas of infested wood in and around structures. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control termites.

Apply a 0.5% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawlspaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces.

Termite carton nests in building voids may be injected with 0.5% to 1.0% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

**Treatment of Termite Carton Nests in Trees:** Termite carton nests in trees may be injected with 0.5% to 1.0% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from tree when such nests are found.

**Posts, Poles, Fences and Other Wooden Non-Building Constructions:** Create an insecticidal barrier in the soil around wooden non-building constructions such as signs and landscape ornamentation by applying a 0.5% to 1.0% emulsion. Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Apply to a depth of 15 cm below the bottom of the wood. For larger constructions, use 15 litres per 3 linear metres per 30 cm of depth. Apply a 0.5% emulsion with a fan spray using a maximum pressure of 170 kilopascals. Treatment should be made just to the point of runoff. To control termites active inside posts, poles, fences and other wooden non-building constructions, drill to find the interior infested cavity and inject a 0.5-1.0% emulsion.

### **Resistance-Management Recommendations**

For resistance management, please note that PRELUDE 240 Synthetic Pyrethroid Insecticide contains a Group 3 insecticide. Any insect population may contain individuals naturally resistant to PRELUDE 240 Synthetic Pyrethroid Insecticide and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly at the same location. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

### **To delay insecticide resistance:**

Where possible, rotate the use of PRELUDE 240 Synthetic Pyrethroid Insecticide or other Group 3 insecticides with different groups that control the same pests at the same location. Avoid application of more than the maximum number listed in the label and consecutive sprays of PRELUDE 240 Synthetic Pyrethroid Insecticide or other insecticides in the same group in a season. Use tank mixtures with insecticides from a different group when such use is permitted. Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices. Monitor treated pest populations for resistance development.

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 1-888-GO-AMVAC.

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