

GROUP	<b>3</b>	INSECTICIDE
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**PRELUDE 240<sup>®</sup>**  
Synthetic Pyrethroid Insecticide

COMMERCIAL

**GUARANTEE:**

Permethrin ..... 240 g per litre

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

CAUTION



POISON

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

Store above 0°C

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

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

~~Syngenta Crop Protection Canada, Inc.~~  
~~140 Research Lane, Research Park~~  
~~Guelph, Ontario~~  
~~N1G 4Z3~~  
~~Telephone: 1-877-964-3682~~

Notification Change

AMVAC CHEMICAL CORPORATION  
SUITE 1250 4695 MACARTHUR COURT  
NEWPORT BEACH CA 92660  
UNITED STATES

## 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. The user assumes the risk to persons or property that arises from any such use of this product.

## 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, therefore, **if swallowed**, do not induce vomiting. Get medical attention or call a poison control centre **IMMEDIATELY**. If patient is conscious, give him air.

**If splashed in eyes**, wash with plenty of clean water. If irritation develops, get medical attention.

**If on skin**, wash with soap and water and remove contaminated clothing.

**If inhaled**, remove victim to fresh air, apply respiration if required and seek medical attention **IMMEDIATELY**.

## TOXICOLOGICAL INFORMATION

This product contains a petroleum distillate. Treat symptomatically for ingestion, skin and eye contact. Do not induce vomiting.

## 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. Applicators must wear protective clothing inclusive of hand, foot and eye covering. A CSA-approved respirator must be used when applying PRELUDE 240 Synthetic Pyrethroid Insecticide. In an enclosed space provide adequate ventilation during treatment and until spray has dried completely.

Do not store near feed or foodstuffs. Do not plant food crops in soil adjacent to building where there has been a PRELUDE 240 Synthetic Pyrethroid Insecticide application.

Do not use, pour, spill or store near heat or open flame.

Do not formulate with any diluent other than clean water.

Do not apply to pets, crops or sources of electricity.

Do not allow people or pets to contact treated surfaces until the spray has dried completely.

Do not use concentrate or emulsion in fogging equipment.

Firewood is not to be treated.

During indoor surface applications do not allow dripping or run-off to occur.

Do not apply this product in nurseries, patient rooms or any rooms occupied by elderly or infirm.

Do not apply to classrooms when in use.

Do not touch treated surface until dry.

### **ENVIRONMENTAL HAZARDS**

This product is highly toxic to bees and predatory mites. Do not apply this product or allow it to drift to crops or weeds where bees are actively foraging or to areas where integrated pest management is practiced. This product is toxic to fish, birds and other wildlife. Keep out of lakes, streams and ponds. Do not contaminate water through spray or drift, cleaning of equipment or disposal of waste.

### **STORAGE**

#### **PESTICIDE 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 1-800-327-8633 (FASTMED)***

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Do not use, pour, spill or store near heat or open flame.

Do not formulate with any diluent other than clean water.

Do not apply to pets, crops or sources of electricity.

Do not allow people or pets to contact treated surfaces until the spray has dried completely.

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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.

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CALL 1-800-327-8633 (FASTMED)***

## **PRODUCT INFORMATION**

PRELUDE 240 Synthetic Pyrethroid Insecticide is a pyrethroid insecticide (permethrin) that offers a high level of activity against a broad spectrum of insect pests. The pests controlled are listed in the accompanying sections. PRELUDE 240 Synthetic Pyrethroid Insecticide is to be used for residual pest control indoors (A) in food areas during close-down periods and outdoors (B) on buildings and structures and their immediate surroundings. The use of this product also prevents and controls (C) Cluster flies, and (D) Termite infestations of Eastern Subterranean termites and Western Subterranean Termites.

Permethrin is a synthetic version of pyrethrins. Pyrethrins have long been known for their low mammalian toxicity and rapid knockdown of insects. Like the pyrethrins on which it is based, permethrin has retained a low level of toxicity to mammals; however, the synthetic process has increased the stability of the chemical giving it residual properties.

Although permethrin is more stable than pyrethrins on which it is based, 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 (PRELUDE 240 Synthetic Pyrethroid Insecticide) will provide residual activity.

## **DIRECTIONS FOR USE**

### **Mixing Instructions:**

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 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 to achieve a 1.0% concentration.

Do not tank mix this product with any other product.

#### **A) PEST CONTROL INDOORS**

**FOOD AREAS:** Food areas include areas for receiving, storage, packaging (canning, bottling, wrapping, boxing), preparing, edible waste storage, enclosed processing systems (mills, dairies, edible oils, syrups) and serving areas.

Application is limited to close-down periods only and during these periods to spot or crack and crevice treatments only. Remove or cover all food, preparation and serving areas, packaging materials and utensils before application. In warehouses, stores, storage areas and on aircrafts, ships, trains and trucks do not spray food or food packages. Do not treat bins, bulk cargo areas or other places which may be contacted directly by food or feed.

Prepare a spray solution as described under Mixing Instructions and apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide. 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 pests hide.

Make application using low pressure so as to avoid possible atomization or splashing of the spray. After spraying, wash all surfaces that may contact food and rinse thoroughly with potable water before re-use for food processing, preparation or serving. Dishes, food-handling utensils and food-contacting surfaces should be thoroughly washed with soap and water if they become contaminated during application of this product.

**NON-FOOD AREAS:** All areas where insects hide or through which insects may enter should be treated. Prepare a spray solution as described under Mixing Instructions and apply as a crack and crevice treatment or as a spot treatment. Spot treatment using a coarse spray may be made to areas where pests hide or inhabit such as baseboards, storage areas, closets, around water pipes, doors and windows, behind or under refrigerators, cabinets, sinks, stoves and other equipment, the underside of shelves, drawers and similar areas.

**NOTE:** When making an application to vinyl or wooden surfaces, treat a small area and allow to dry. Some types of vinyl or wooden surfaces, particularly if aged, may show some staining after application of an emulsifiable concentrate.

Use PRELUDE 240 Synthetic Pyrethroid Insecticide to control pests listed below by applications of a 0.5% emulsion.

**PESTS:** Ants\*, Bed Bugs, Bees\*\*\*, Brown Dog Ticks, Carpenter Ants\*, Carpet Beetles, Cockroaches including Asian Cockroaches, Crickets, Earwigs, Firebrats, Fleas, House Flies, pantry pests\*\* such as Indian Meal Moth, silverfish, spiders and Wasps\*\*\*.

**FOR SPOT TREATMENT:** Spray area where these pests are found or may hide, including dark corners of rooms and closets, cracks and crevices in walls; along baseboards and door and window frames; Behind and beneath sinks, stoves, refrigerators, and cabinets and around garbage cans, plumbing and other utility installations. Pests driven out of hiding places should be sprayed directly. For Ants, apply to ant trails, also around doors and windows, and wherever else these pests may find entrance. Repeat as necessary.

**FOR CRACK AND CREVICE:** Apply spray in small amounts directly into cracks and crevices. Equipment capable of delivering a pin stream should be used in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases where the above insects hide.

**TO KILL BROWN DOG TICK AND FLEAS:** Thoroughly apply as a spot treatment to infested areas such as pet beds and resting quarters, nearby cracks and crevices, along and behind baseboards, window and door frames, and localized areas of floor and floor coverings where these pests may be present. Old bedding should be removed and replaced with clean fresh bedding after treatment. Do not spray pets with the product.

\*Ant infested wood may be drilled and injected with PRELUDE 240 Synthetic Pyrethroid Insecticide.

\*\* Remove all utensils, uncovered food stuffs (or any having original package opened), Shelf Paper and other objects before spraying. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, food stuff or other items. Any foodstuff accidentally contaminated with spray solution should be discarded.

\*\*\* For optimal control of Bees and Wasps, treat nests directly.

## **B) PEST CONTROL OUTDOORS**

**POST, POLES AND OTHER CONSTRUCTION:** Create an insecticidal barrier in the soil around wooden constructions such as signs, fences 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.

**TREATMENT OF WOOD IN PLACE FOR CONTROL OF WOOD-INFESTING INSECTS (Localized Areas in Structure, Spot, Treatment Only):** For the control of insects such as Termites, Ants and wood-infesting beetles such as Old House borer, Powder Post in localized areas of infested wood in and around structures, apply a 0.5% emulsion to voids and galleries in damaged wood and in spaces 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. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of Wood-infesting Insects.

Termite carton nests in trees or 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.

**BROADCAST TREATMENT OF WOOD FOR THE CONTROL OF WOOD-INFESTING INSECTS - and Nuisance Pests Outside of Structure:** Apply a 0.5% emulsion with a fan spray using a maximum of 170 kilopascals. Treatment should be made just to the point of runoff.

To control Wood-infesting Insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.5% emulsion. To control Bees, Wasps, Hornets and Yellow-jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

**PEST CONTROL ON OUTSIDE SURFACES AND AROUND BUILDINGS (Spot and Perimeter Treatment):** Apply PRELUDE 240 Synthetic Pyrethroid Insecticide using a 0.5% emulsion as a residual spray to outside surfaces of building including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, home and residential lawns only, soil, trunks of woody ornamental and other areas where pests congregate or have been seen. Repeat treatment as necessary to maintain effectiveness.

**NOTE:** When making an application to vinyl siding or wooden surfaces, treat a small area and allow to dry. Some types of vinyl siding or wooden surfaces, particularly if aged or weathered, may show some staining after application of an emulsifiable concentrate.

**PERIMETER TREATMENT:** Apply to a band of soil and vegetation 1.5 to 3.0 metres wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 1/2 to 1 metre. Use a spray volume of 10 to 40 litres per 100 square metres. Higher volumes of water may be needed if mulch or leaf litter is present or dense foliage. House siding may be treated if pests such as Gypsy Moth adults and caterpillars, Earwigs or Silverfish are present.

**ADULT MOSQUITO CONTROL AS A PERIMETER APPLICATION:** Mix 210 mL PRELUDE 240 Synthetic Pyrethroid Insecticide per 10 L water (0.5% emulsion) and apply around the perimeter of the property to shrubs, evergreens and tall grass where mosquitoes generally congregate. Apply spray solution until foliage is wet. Perimeter treatment is intended for application around homes, residences and other buildings. PRELUDE 240 Synthetic Pyrethroid Insecticide is not to be used for broadcast application on lawns or other large areas. PRELUDE 240 Synthetic Pyrethroid Insecticide is not intended for perimeter control around public facilities such as parks. Do not apply within 15 m of any body of water.

Pest	Specific Instructions
Ants, Ant Mounds <sup>1</sup> , Bark Beetles <sup>3</sup> , Bees, Borers <sup>3</sup> , Cockroaches, Asian cockroaches, Crickets, Earwigs, Firebrats, Fleas, Gypsy Moths (adults & caterpillars) <sup>2</sup> , Hornets, Silverfish, Spiders, Wasps, Yellow- jackets, Flies (House Cluster), Carpenter Ants, Termites.	Apply as a pin stream, as a fine/coarse, low pressure spray 350 kilopascals or less, as a spot treatment or with a paintbrush. Treat where pests are found or entry points of the structure such as window or door frames and along the foundation.  <sup>1</sup> Drench Method: Apply 4 to 7.5 litres of emulsion to each mound by sprinkling the mound until it is wet and treat a 1 metre diameter circle around the mound. Use the higher volume 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.  <sup>2</sup> Gypsy Moth caterpillars: Spray tree trunks, building siding, or wherever pests congregate, to the point of runoff.  <sup>3</sup> Borers and Bark Beetles: To prevent borer infestation of trees and woody ornamentals, spray the bark to the point of runoff.

### C) CLUSTER FLIES

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. Control within buildings when warranted is directed to the attic where the flies can overwinter if they gain access.

#### INSIDE BARN, CHICKEN HOUSES, LIVESTOCK LIVING AREAS

Remove animals before spraying and leave an hour interval before re-entry. Do not contaminate food, feed or water. Do not apply directly to animals or poultry. Do not use as a space spray. 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. Apply as a residual treatment directly to inside surfaces including walls, ceilings, beams and other surfaces where flies rest. In dairies, apply only when not in operation. Thoroughly clean all milk utensils before resuming operation.

**NOTE:** Good sanitation is essential for good fly control, including elimination of fly breeding sites.

**OUTDOOR CONTROL** - Prepare a spray mixture of 210 mL of PRELUDE 240 Synthetic Pyrethroid Insecticide in 10 L of water. Spray this mixture to the outside walls including under the eaves, soffits and window trim. Spray to the point of run-off (approximately 10 L of spray per 100 m<sup>2</sup>). The effective time of application is between mid-August and the end of September depending on weather conditions.

**INDOOR CONTROL (ATTIC) - WHEN REQUIRED** - Prepare a mixture of 210 mL of PRELUDE 240 Synthetic Pyrethroid Insecticide in 1 L of clean water. Apply this mixture to the attic area using an electric mist blower. Operate the electric mist blower from the attic entrance moving it around to cover the whole attic area. Apply at the rate of 1 L per 200 m<sup>2</sup>. Once the spraying is complete (usually a minute), close the attic entrance.

**NOTE:** The operator should wear a suitable pesticide respirator while performing this operation.

**RESTRICTED USE  
(D) TERMITE CONTROL  
NOTICE TO USER**

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**NATURE OF RESTRICTION**

For use only by licensed pest control operators authorized with permits or appropriate license by government to control 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 mixture of 2.1 L of PRELUDE 240 Synthetic Pyrethroid Insecticide in 50 L of water (1% permethrin solution) 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 /water mixture as necessary to form a continuous barrier against termite invasions.

Variable soil conditions may not allow for the recommended rates to be applied in all areas around the structure. Rates given are for ideal soil conditions, i.e. excellent termiticide retention and absorption. PRELUDE 240 Synthetic Pyrethroid Insecticide can be applied only after proper site preparations, including removal of all wood/soil contact, have been completed. Attention should be paid to applicator safety and proper handling procedures. Applicators must wear protective clothing inclusive of hand, foot and eye covering. A CSA approved respirator must be used when applying PRELUDE 240 Synthetic Pyrethroid Insecticide in an enclosed space (provide adequate ventilation).

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.

**DIRECTIONS FOR USE**

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

**New Constructions:** 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 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 ports can be replaced with steel jack ports.
- 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.
- adequate ventilation must be provided for soil-surfaced crawl spaces under porches or living areas.

### **Mixing Instructions**

Prior to mixing, inspect mixing tank, pumps, hoses and all fittings to ensure that all equipment is in good working order and that there are no leaks. Prepare a mixture containing 2.1 L of PRELUDE 240 Synthetic Pyrethroid Insecticide and 50 litres of water. 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.

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

**Pre-treatment of New Construction.** A mixture of 2.1 L of PRELUDE 240 Synthetic Pyrethroid Insecticide in 50 L of water 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 and provided with adequate ventilation.

**Slab on Ground** - Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture 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 m intervals.

- Apply 6 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water 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.
- If necessary to complete a chemical barrier, inject 1.3 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture 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/water mixture 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 m intervals.

- Apply 6 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture 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.
- Inject 1.5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture 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.

During back filling, apply 12 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture 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.

- Apply 5 litres of the PRELUDE 240 Synthetic Pyrethroid Insecticide/water mixture per m<sup>2</sup> to soil under crawl space by rodding at 1 m intervals. Cover treated soil with 2 vapour barriers, provide adequate ventilation and a minimum clearance of 50 cm.

**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 of the foundation, to the inside of foundation, along partition walls, around support piers and stairway stringers. Treat wall voids from outside only wherever possible.

- All applications are to be made using a mixture of 2.1 L of PRELUDE 240 Synthetic Pyrethroid Insecticide in 50 L of water. 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/water mixture per linear metre/25 cm of penetration depth from grade to top of footings 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 footings.
- concrete, asphalt or block sidewalks, driveways, patios, etc., adjacent to foundation must be drilled prior to rodding in chemical.





**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/water mixture 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/water mixture 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/water mixture 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/water mixture 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/water mixture 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/water mixture/linear metre.

**NOTE TO BUYER / USER:**

The DIRECTIONS FOR USE for this product for the use described below were developed by persons other than Syngenta Crop Protection Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Registration program. Syngenta Crop Protection Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crop listed below.

Accordingly, the Buyer and User assume all liability arising, and agree to hold Syngenta Crop Protection Canada, Inc. harmless, from any claims based on efficacy and/or phytotoxicity in connection with the use described below.

**DIRECTIONS FOR USE**

PEST	RATES
Ambrosia and wood boring beetles	0.10 mg product/m <sup>2</sup>

Dilute 1:200 with water to apply at the recommended rate. 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. Wear water-tolerant coveralls or a water proof apron over long – sleeved shirt, long pants, chemical resistant gloves and rubber boots during the stacking operation.

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.

**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 in the same field. 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 in a field.

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 1-87-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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