

# Prelude

Registrant: Amvac Chemical Corporation

## GENERAL

|                                 |  |                             |  |
|---------------------------------|--|-----------------------------|--|
| <b>EPA Registration Number:</b> | 5481-550   | <b>Signal Word:</b>         | CAUTION                                      |
| <b>CA Registration Number:</b>  | 5481-550-AA                                      |                             |  |
| <b>Active Ingredient:</b>       | 25.6 - Permethrin                                | <b>Application Methods:</b> | Ground                                       |
| <b>Label Version:</b>           | 12299-20201016a                                  | <b>Mode of Action:</b>      | IRAC 3A                                      |
| <b>Physical State:</b>          | Liquid (8.01 lb / ga)                            | <b>Toxic To:</b>            | Aquatic Organisms, Bees, Fish, Invertebrates |
| <b>Product Type:</b>            | Insecticide, Miticide                            | <b>Rainfastness:</b>        |  |
| <b>Formulation Type:</b>        | Emulsifiable Concentrate OR Emulsion Concentrate |                             |  |

## ADDITIONAL INFORMATION

|                                    |      |                                       |  |
|------------------------------------|------|---------------------------------------|--|
| <b>Federally Restricted:</b>       | No   |                                       |  |
| <b>Organic Certifications:</b>     | None | <b>Other Certifications:</b>          | None   |
| <b>Posting Required:</b>           | No   | <b>Closed Mixing System Required:</b> | All applications in All States/Provinces: Not required |
| <b>Oral Notification Required:</b> | No   | <b>Avoid Grazing:</b>                 | Yes  |

## CALIFORNIA

|                         |             |                       |    |
|-------------------------|-------------|-----------------------|----|
| <b>Registration #:</b>  | 5481-550-AA | <b>CA Restricted:</b> | No |
| <b>CA NOI Required:</b> | No          |                       |    |

REGISTERED FOR USE IN

PACKAGE TYPES

1 GA Package(s) (4 / Case)

**\*\*Specific Notices will not be shown until a pest is selected.**

**SAFETY****PPE Information:**

**PERSONAL PROTECTIVE EQUIPMENT (PPE)** All mixers, loaders, applicators and other handlers must wear: - Long-sleeved shirt and long pants - Shoes plus socks - Chemical-resistant gloves (barrier laminate, butyl rubber, Viton (R)) - Chemical-resistant apron (barrier laminate, butyl rubber, Viton) for persons cleaning equipment or exposed to the concentrate In addition to the PPE listed above, all handlers working in a non-ventilated space or applying termiticide by rodding or sub-slab injection must wear: - Protective eyewear (goggles and/or a face shield and/or shielded safety glasses with front, brow and temple protection) - A NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter; or a supplied air respirator with a NIOSH approval number prefix TC-19C; or a self-contained breathing apparatus (SCBA) with a NIOSH approval number TC-13F.

**Re-Entry PPE Information:**

No Information Available

**Transport Information:**

DOT UN number UN3082 UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Permethrin) Class 9 Transport hazard class(es) Subsidiary risk - Label(s) 9 Packing group III Marine pollutant No Environmental hazards Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Special provisions 8, 146, 335, IB3, T4, TP1, TP29 Packaging exceptions 155 Packaging non bulk 203 Packaging bulk 241 IATA UN number UN3082 UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Permethrin) Class 9 Transport hazard class(es) Subsidiary risk - Packing group III Environmental hazards Yes, when transported in bulk over large bodies of water ERG Code 9L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Passenger and cargo Allowed with restrictions. aircraft Other information Cargo aircraft only Allowed with restrictions. Read safety instructions, SDS and emergency procedures before handling. IMDG UN number UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Permethrin), MARINE POLLUTANT UN proper shipping name Class 9 Transport hazard class(es) Subsidiary risk - Packing group III Marine pollutant Yes Environmental hazards EmS F-A, S-F Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not established. General information: IMDG Regulated Marine Pollutant. This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less. When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

**Response Number:**

800-424-9300

**Medical Number:**

888-681-4261

**SDS Hazard ID Signal Word:**

Warning

**GENERAL NOTICE 1**

**PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION** Harmful if swallowed, absorbed through skin or inhaled. Causes eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**GENERAL NOTICE 2**

**ENVIRONMENTAL HAZARDS** This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply Prelude Termiticide/Insecticide, or allow it to drift, to blooming crops or weeds while bees are foraging in or adjacent to the treatment area. Additional information may be obtained from a Cooperative Extension Service. Apply this product only as specified on this label.

**GENERAL NOTICE 3**

**PHYSICAL OR CHEMICAL HAZARDS** Do not use or store near heat or open flame.

**GENERAL NOTICE 4**

**DIRECTIONS FOR USE** It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not use in commercial greenhouses or nurseries. Not for use on plants or turf being grown for sale or other commercial use, or for commercial seed production, or for research purposes. Do not use on food or feed crops. For use on plants intended for aesthetic purposes or climate modification and being grown in interior landscapes, ornamentals, gardens or parks, or lawns and grounds. **RESTRICTIONS** - Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. - When used as a surface spray, do not allow others to enter until sprays have dried. - When used as a surface spray, do not allow others to enter until vapors, mists and aerosols have dispersed, and treated area has been thoroughly ventilated. - Not for broadcast use on indoor residential surfaces, including nurseries, daycare centers, schools, hospitals and nursing homes. - Do not apply when food is present. - Do not use in aircraft. - When used in dairy barns or facilities, close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking. - 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. - Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats such as lakes, reservoirs, rivers, permanent streams, marshes or ponds, estuaries and commercial fish ponds. - All outdoor applications must be limited to spot or crack-and-crevice treatments, except as directed on this label, and 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. Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and crack-and-crevice applications, except as directed on this label. - Do not water treated area to the point of run-off. - Do not make outdoor applications during rain. - Do not use in outdoor residential misting systems. - For pre-construction termiticide application, the treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas. The applicator must either cover the soil him/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different from the contractor). If notice is provided to the contractor or the person commissioning the application, then they are responsible under FIFRA to ensure that: (1) if the concrete slab cannot be poured over the treated soil within 24 hours of application, then the treated soil is covered with a waterproof covering (such as polyethylene sheeting), and (2) the treated soil is covered if precipitation is predicted to occur before the concrete slab is scheduled to be poured. - Do not make on-grade applications when sustained wind speeds are above 10 mph at nozzle end height.

**GENERAL NOTICE 5**

**INFORMATION ON THE USE OF THIS PRODUCT FOR TERMITE CONTROL** Chemicals for soil treatment are used to establish a barrier against termite attack. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between the wood in the structure and the termite colonies in the soil. For the effective use of this product, it is necessary that the service technician be familiar with current control practices including trenching, rodding, subslab injection, and low-pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species, including *Reticulitermes*, *Zootermopsis*, *Heterotermes* and *Coptotermes* (Formosan termite). Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions, location and type of domestic water supplies and drainage systems. The biology and behavior of the termite species involved are important factors to be known, as well as suspected location of the colony and severity of the infestation within the structure to be protected. Effective termite control also includes elimination of termite access to moisture by recommending repair of faulty construction grade and/or plumbing. It is recommended to remove all wood and cellulose containing debris in contact with soil from crawl spaces, porches, and around foundations. For advice concerning current control practices with relation to the specific local conditions, consult resources in structural pest control and the State regulatory agency.

**GENERAL NOTICE 6**

**STAINING** Each year prior to an application to vinyl siding, treat a small area on all sides of the structure where weathering is most severe, and allow to dry. Observe for staining. Some types of vinyl siding, particularly if aged or weathered, may show some staining after application of an emulsifiable concentrate product. To completely eliminate the potential risk associated with staining, it is suggested that a water-based product such as Demand (R) CS be used.

**GENERAL NOTICE 7**

**SUBTERRANEAN TERMITE CONTROL USE DIRECTIONS** Apply 0.50%-1% emulsion to establish subsurface termite control barriers specified on product labeling. Avoid contamination of public and private water supplies by following these precautions: - Use anti-backflow equipment or procedures to prevent siphonage of pesticide back into water supplies. - Do not treat soil beneath structures that contain wells or cisterns. - Do not allow treatment to run-off from the target area. Do not treat soil that is water-saturated or frozen. Do not treat while precipitation is occurring. - Do not introduce the treatment into the gravel and/or pipe drainage system which may be located on the exterior of the foundation in close proximity to the footing of the structure. Consult State and local specifications for recommended distance of treatment areas from wells. Refer to Federal Housing Administration Specifications for guidance on preconstruction treatments if no State or local government recommendations are available.

**GENERAL NOTICE 8**

**APPLICATION VOLUMES** To provide maximum control and protection against termite infestation, apply the specified volume of the finished water emulsion and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same. Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous barrier can still be achieved. Note: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustments to account for lower volume dispersal of the termiticide in the soil. Volume adjustments at 2% are not recommended for subslab injection. Please see the table located on page 5 of Prelude Termiticide/Insecticide for Volume Adjustment Chart \*Not recommended for subslab injections.

**GENERAL NOTICE 9**

**POST-CONSTRUCTION AFTER TREATMENT** Before leaving the job site, securely plug all holes drilled in construction elements of commonly occupied areas of structures, including unfinished basements, enclosed porches, garages and workshops.

**GENERAL NOTICE 10**

**RESTRICTIONS** Do not use in food or feed areas of food handling establishments, restaurants or other areas where food or feed is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food is served such as dining rooms but excluding areas where food may be prepared or held. Nonfood/feed areas are 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 (after bottling or canning). Not for use in federally inspected meat and poultry plants.

**GENERAL NOTICE 11**

**DO NOT APPLY THIS PRODUCT TO EDIBLE CROPS.** Do not apply in warehouses where raw or cured tobacco is stored. Do not apply in warehouses while raw agriculture commodities for food or feed are being stored. Do not allow spray to contact food, foodstuffs, food contacting surface, food utensils or water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not apply to pets, crops, firewood or sources of electricity. Do not allow people or pets on treated surfaces, such as carpets, until the spray has dried. Do not use concentrate or emulsion in fogging equipment. During indoor surface application, do not allow dripping or run-off to occur. Do not apply this product in any rooms being used as living, eating, sleeping or recovery area by patients, the elderly, or infirm when they are in the room. Do not apply when occupants are present in the immediate area in institutions such as libraries, sport facilities, etc. Do not apply to classrooms when in use. Do not touch treated surface until dry.

**GENERAL NOTICE 12**

Please see the table on page 15 of the Prelude Termiticide/Insecticide for **SPRAY DILUTIONS\*** \*Fill sprayer with the desired volume of water and add Prelude Termiticide/Insecticide. Close spray container and shake or agitate before use to ensure proper mixing. Make up diluted material only as required.

**GENERAL NOTICE 13**

USER SAFETY RECOMMENDATIONS - Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. - Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. - Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**GENERAL NOTICE 14**

USER SAFETY REQUIREMENTS - Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water. Keep and wash PPE separately from other laundry. - Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**GENERAL NOTICE 15**

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean up is completed.

**GENERAL NOTICE 16**

- Do not use in aircraft.

**GENERAL NOTICE 17**

FIRST AID If swallowed: - Call a poison control center or doctor immediately for treatment advice. - Do not give any liquid to the person. - Do not induce vomiting unless told to do so by the poison control center or doctor. - Do not give anything by mouth to an unconscious person. 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. If in eyes: - Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for treatment advice. 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 center or doctor for further treatment advice. EMERGENCY INFORMATION 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 NOTE TO PHYSICIAN Contains petroleum distillate - vomiting may cause aspiration pneumonia.

**GENERAL NOTICE 18**

PERSONAL PROTECTIVE EQUIPMENT (PPE) All mixers, loaders, applicators and other handlers must wear: - Long-sleeved shirt and long pants - Shoes plus socks - Chemical-resistant gloves (barrier laminate, butyl rubber, Viton (R)) - Chemical-resistant apron (barrier laminate, butyl rubber, Viton) for persons cleaning equipment or exposed to the concentrate In addition to the PPE listed above, all handlers working in a non-ventilated space or applying termiticide by rodding or sub-slab injection must wear: - Protective eyewear (goggles and/or a face shield and/or shielded safety glasses with front, brow and temple protection) - A NIOSH-approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter; or a supplied air respirator with a NIOSH approval number prefix TC-19C; or a self-contained breathing apparatus (SCBA) with a NIOSH approval number TC-13F.

**GENERAL NOTICE 19**

MIXING DIRECTIONS Mix the termiticide use dilution in the following manner: 1. Fill tank 1/4 to 1/3 full with water. 2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. 3. Add appropriate amount of Prelude Termiticide/Insecticide. 4. Add remaining amount of water. 5. Let pump run and allow recirculation through the hose for 2-3 minutes. To prepare a 0.50% water emulsion, ready for use, dilute 2 gal. of Prelude Termiticide/Insecticide with 98 gals. of water. To prepare a 1% water emulsion, ready to use, dilute 4 gal. of Prelude Termiticide/Insecticide with 98 gals. of water. For termite control operations requiring smaller volumes, use 2.6 fl. oz. of Prelude Termiticide/Insecticide per gal. of water to achieve a 0.50% concentration.

**GENERAL NOTICE 20**

After Treatment All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be in a non-cellulose material or covered by an impervious, non-cellulose material.



**TANK MIX INFORMATION**

Can be tank mixed with Insect Growth Regulators (IGRs) or pyrethrin-containing products. When mixing Prelude Termiticide/Insecticide with other products, observe all precautions and limitations on the labels of each product.

**SPECIAL INSTRUCTIONS****MIXING DIRECTIONS**

Mix the termiticide use dilution in the following manner:

1. Fill tank 1/4 to 1/3 full with water.
2. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose.
3. Add appropriate amount of Prelude Termiticide/Insecticide.
4. Add remaining amount of water.
5. Let pump run and allow recirculation through the hose for 2-3 minutes.

To prepare a 0.50% water emulsion, ready for use, dilute 2 gal. of Prelude Termiticide/Insecticide with 98 gals. of water. To prepare a 1% water emulsion, ready to use, dilute 4 gal. of Prelude Termiticide/Insecticide with 98 gals. of water. For termite control operations requiring smaller volumes, use 2.6 fl. oz. of Prelude Termiticide/Insecticide per gal. of water to achieve a 0.50% concentration.

**After Treatment**

All holes in commonly occupied areas into which material has been applied must be plugged. Plugs must be in a non-cellulose material or covered by an impervious, non-cellulose material.