To control pests indoors and outdoors on residential, institutional, public, commercial, and industrial buildings, greenhouses, food handling establishments, and lawns, ornamentals, parks, recreational areas and athletic fields.

When used as a termicide, individuals/firms must be licensed by the state to apply termicide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your state prior to use of this product.

Provides up to 1 month residual control of house flies
Kills fleas for up to 3 months

EPA Reg. No. 279-3206 EPA Est. 279-NY-1
Active Ingredient: By Wt.
Bifenthrin* ...................................................... 7.9%
Other Ingredients: ............................................. 92.1%
100.0%

Talstar® P Professional Insecticide contains ½ pound active ingredient per gallon.
*Cis isomers 97% minimum, trans isomers 3% maximum.
U.S. Patent No. 4,238,505

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

If swallowed
• Call poison control center or doctor immediately for treatment advice.
• Have person sip a glass of water if able to swallow.
• 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 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.

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.

• Call poison control center or doctor immediately for treatment advice.

• Have person sip a glass of water if able to swallow.
• 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.

NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

For information Regarding the Use of this Product Call 1-800-321-1FMC (1362).

PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)
CAUTION
Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.
All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves.
After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn®), or an in-line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device1 when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in non-ventilated space.

1Use one of the following NIOSH approved respirator with any R, P or HE filter
or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:
Users should:
• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
• Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
Environmental Hazards
This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

Physical and Chemical Hazards
Do not apply water-based dilutions of Talstar® P Professional Insecticide to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard.

Applications:
- Above ground termite control
- Ant control
- Ant and Fire Ant Mounds
- Carpenter Ants Indoors
- Carpenter Ants Outdoors
- Nuisance Ants Indoors
- Nuisance Ants Outdoors
- Food/Feed handling establishments
- Greenhouses and interiorscapes
- Indoors
- Ants
- Bedbugs
- Bees and wasps
- Boxelder bugs, centipedes, earwigs, beetles, millipedes, pillbugs, sowbugs
- Cockroaches, crickets, firebrats, house flies, scorpions, silverfish, spiders, ticks
- Fleas
- Lawns
- Livestock Premises
- Mosquito control
- Ornamentals and trees
- Outside surfaces and around buildings
- Under Slabs
- Wood Infesting Insects and Nuisance Pests
- Specific pest control applications:
  - Crawspaces
  - Posts, poles, and other construction
  - Underground services
  - Wood-in-place to control wood infesting insects
  - Subterranean termite control
    - Structures with wells/cisterns inside foundations
  - Subterranean termite control, pre-construction
  - Horizontal barriers
  - Vertical barriers
  - Subterranean termite control, post-construction
  - Accessible crawl spaces
  - Application with termite baits
  - Basements
  - Foam applications
  - Foundations
  - Inaccessible crawl spaces
  - Masonry voids
  - Sand barrier Installation and Treatment
  - Slabs
- Dilution chart
- Environmental hazards
- First Aid
- General application instructions
- Ingredients
- Physical and chemical hazards
- Precautionary statements- human and animal hazards
- Resistance management
- Storage and disposal
- Use Precautions
- Warranty

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply a broadcast application to interior surfaces of homes.
Do not apply by air.
Do not apply in nurseries.
Do not apply this product through any kind of irrigation system.

AGRICULTURE USE REQUIREMENTS*
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as, plants, soil, or water is:
- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.
- Shoes plus socks

Do not apply this product in a way that will contact workers or other persons either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

NON-AGRICULTURAL USE REQUIREMENTS**
The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people or pets on treated surfaces until the spray has dried.

**These requirements apply to all other non-greenhouse uses on this label

Use Directions for Tip-N-Measure Container
1. Remove the measuring chamber cap and induction seal. Replace the cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: Remove fill chamber cap and dispense according to markings on side of bottle.

Use Directions for Squeeze-N-Measure Container
1. Remove the measuring chamber cap and induction seal.
2. Replace cap loosely on measuring chamber to allow venting.
3. Squeeze container gently until liquid fills measuring chamber.
4. Remove measuring chamber cap and dispense into proper application equipment.
5. Replace cap onto measuring chamber and Securely Tighten.
**Talstar® P Professional Insecticide Dilution Chart**

<table>
<thead>
<tr>
<th>Applic. Volume:</th>
<th>Applic. Rate:</th>
<th>Fluid Ounces of Talstar P Professional Diluted to these Volumes of Finished Spray</th>
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<tbody>
<tr>
<td>Gal/1000 sq. ft.</td>
<td>fl. oz.</td>
<td>fl. oz.</td>
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<tr>
<td>1</td>
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<td>0.008</td>
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1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons
Do not use household utensils to measure Talstar® P Professional Insecticide.

**General Application Instructions**

Talstar® P Professional Insecticide formulation mixes readily with water and other aqueous carriers.

Talstar® P Professional Insecticide may be tank-mixed with adjuvants, and with other pesticides, including insect growth regulators. When tank mixing Talstar® P Professional Insecticide with other pesticides, observe all precautions and limitations on each separate product label. The physical compatibility of Talstar® P Professional Insecticide may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquid flows, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. Note: If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.
The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing Talstar® Professional Insecticide:

\[(\text{Gallons of finished spray mix})(128) = \text{Percent Active Ingredient of spray mix}\]

**Application Recommendations**

**Ant Control**

**Nuisance Ants Indoors:** For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where ants have been observed or are expected to forage, but are not limited to, board, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using Talstar® Professional Insecticide in combination with baits, apply Talstar® Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® Professional Insecticide.

**Nuisance Ants Outdoors:** For best results, locate and treat ant nests. Apply Talstar® Professional Insecticide to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the “Pest Control on Outside Surfaces and Around Buildings” section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. Maximum control is generally achieved using the following procedure:

1. Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per 1,000 square feet (refer to the Talstar® Professional Insecticide Dilution Chart).
3. For maximum residual control, dilute 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

**Carpenter Ants Indoors:** Dilute 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where carpenter ants or their nests are present. When using Talstar® Professional Insecticide in combination with baits, apply Talstar® Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® Professional Insecticide.

**Carpenter Ants Outdoors:** Apply Talstar® Professional Insecticide to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the “Pest Control on Outside Surfaces and Around Buildings” section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for carpenter ant control. Maximum control is generally achieved using the following procedure:

1. Treat non-porous surfaces with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Treat the trunks of trees that have carpenter ant trails, or upon which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and applying this dilution to thoroughly wet the bark from the base of the tree to its highest point on the trunk.
3. Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per 1,000 square feet (Talstar® Professional Insecticide Dilution Chart).
4. For maximum residual control, dilute 0.5 to 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to locate the interior infested cavity and inject or foam a 0.06% dilution (1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water) into the cavity using a sufficient volume and an appropriate treatment tool with a splashback guard.

To control carpenter ants that are tunneling in the soil, dilute 0.5 to 1.0 fluid ounces of Talstar® Professional Insecticide per gallon of water and inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

To protect firewood from carpenter ants and termites, dilute 1.0 fluid oz. of Talstar® Professional Insecticide per gallon of water and apply to the soil beneath where the firewood will be stacked at the rate of one gallon of dilution per 8 square feet.

For wood piles and stored lumber apply a 0.06% suspension. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned as firewood or used for lumber one month after treatment. Do not use in structures.

**For Ant and Fire Ant Mounds use Talstar® Professional Insecticide 0.06% suspension as Drench Method:** Apply 1-2 gallons of suspension to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12”. For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

**Pest Control on Outside Surfaces and Around Buildings**

Talstar® Professional Insecticide will provide up to 1 month residual control of house flies. Length of residual control is dependant upon rate and surface treated.

For control of Ants, Carpenter Ants, Fire Ants, Armyworms, Lady Beetle, Bees, Beetles*, Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Cicadas, Clover Mites, Crickets, Cutworms, Dictyna Flea Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Grasshoppers, Hornets, Japanese Beetles*, Midge, Millipedes, Mosquitoes, Moths, Roaches, Pests that may be found under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners, particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using Talstar® Professional Insecticide in combination with baits, apply Talstar® Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® Professional Insecticide.

**Mixing Directions:** For 0.02 to 0.06% suspension as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Use a spray volume of up to 10 gallons of suspension per 1,000 square feet. Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

**Broadcast Treatment of Wood for the Control of Wood-inesting Insects and Nuisance Pests Outside of Structure**

Apply a 0.06% suspension with a fan spray using a maximum pressure of 25 psi. Treatment should be made to thoroughly and uniformly cover the surface but limit excess runoff.

To control wood-inesting insects active inside trees, utility poles and fence posts, drill to find the interior infested cavity and inject a 0.06% suspension. 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.

**Pests Under Slabs**

Infestations of Arthropods, such as Ants, Cockroaches and Scorpions inhabiting under slab area may be controlled by drilling control holes, injecting horizontal and vertical holes, and injecting 1 gallon of a 0.06% to 0.12% suspension per 10 square feet or 2 gallons of suspension per 10 linear feet.
MOSQUITO CONTROL

To control adult mosquitoes outdoors on residential, institutional, public, commercial and industrial buildings, and lawns, ornamentals, parks, recreational areas and athletic fields.

Apply Talstar® P Professional Insecticide for mosquito control at an application rate of 0.25 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water (0.07 to 0.22 lbs bifenthrin/acre) and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray (refer to the Talstar® P Professional Insecticide Dilution Chart). Use the high rate for residual control of mosquitoes. Use this product for control of urban mosquitoes that may potentially transmit malaria, dog heartworm, and arboviruses such as, but not limited to, West Nile fever, dengue fever, Eastern equine encephalitis, and St. Louis encephalitis.

Apply as a residual spray to outside surfaces of buildings including but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent to or around private homes, duplexes, townhouses, condominiums, mobile homes, recreational complexes, carports, fence lines, storage sheds, barns, and other commercial, residential and non-commercial structures, soil, trunk of woody ornamentals, trees, shrubs, ground cover, bedding plants, foliage plants, flowers, non-bearing fruit and nut trees in urban areas, parks, campuses, athletic fields, playgrounds, recreational and overgrown waste areas, roadsides and other areas where mosquitoes are found. May also be applied to non-bearing crops or perennial crops that will not produce harvestable raw agricultural commodities, for spraying the season of appearance.

Apply when the mosquitoes are most active. Application during the cooler hours of the night or early mornings is recommended. Do not apply more than 1.0 fluid oz. of Talstar® P Professional Insecticide suspension per gallon of water, do not apply more than once per four weeks.

Apply with hand-held or backpack sprayers or mist blowers, ground sprayers, power sprayers, truck mounted hydraulic sprayers or mist blowers. Do not apply by air or with hand held or truck mounted cold aerosol ULV sprayers and thermal fogging devices. For best results apply when the mosquitoes are most active. Application during the cooler hours of the night or early mornings is recommended.

The high rate for heavy pest infestation, quicker knockdown, or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure, or if there are signs of renewed insect activity. For the lower use rates, repeat application should be limited to no more than once per seven days.

Apply as a coarse, low pressure spot or crack and crevice treatment to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, and in other areas where insects alight. Spray liberally into hiding and breeding places, especially under furnishings, corners, and cracks as much as possible. Do not apply more than 1.0 fluid oz. Talstar® P Professional Insecticide per gallon of water, do not apply more than once per four weeks.

Apply with hand-held and backpack sprayers or mist blowers, ground sprayers, power sprayers, truck mounted hydraulic sprayers or mist blowers. Do not apply by air or with hand held or truck mounted cold aerosol ULV sprayers and thermal fogging devices. For best results apply when the mosquitoes are most active. Application during the cooler hours of the night or early mornings is recommended.

Do not apply more than 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (equivalent to 0.22 lbs. bifenthrin/acre) per application.

Indoors

In the home, all food processing surfaces and utensils should be covered or removed. Exposed food should be covered or removed.

Use a 0.02% to 0.06% suspension (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, or low pressure spray (25 psi or less) or with a paint brush.

Apply as a coarse, low pressure, crack and crevice or spot spray to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas. Do not use as a space spray. Pay particular attention to cracks and crevices.

Mixing Directions: See mixing directions in “Pest Control on Outside Surfaces and Around Buildings” section.

Talstar® P Professional Insecticide is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add Talstar® P Professional Insecticide. Close and shake before use in order to insure proper mixing. Mix only the amount of solution needed for the application. Mixing at the application rate may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, floor drains (to sewers) or as a spot spray on vertical or horizontal surfaces where visual marking of application is desired. Use of a foaming agent increases a.i. surface contact time on challenging surfaces and provides visual marking of the application.

Beetles: To Aid in Control - Thorough application should be made to crack and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty dressers and clothes closets and carpet edges, high and low wall moldings and wallpaper edges. Do not use talstar® P Professional Insecticide 0.02% to 0.06% suspension (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 psi or less) or with a paint brush. Apply as a coarse, low pressure spot or crack and crevice treatment to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

Apply as a coarse, low pressure spot or crack and crevice treatment to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.
General Surface Application: Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

Spot, Crack and Crevice Application: Spot or crack and crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food.

Foam Applications
Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, floor drains (to sewers) or as a spot spray on vertical or horizontal surfaces where visual marking is desired. Use of a foaming agent increases a.i. surface contact time on challenging surfaces and provides visual marking of the application. Ensure that the foaming agent is approved for food surface/area contact use.

Livestock/Poultry Housing Structures and Pet Kennels
Controls pests of poultry/livestock facilities and kennels, including biting flies, filth-breeding flies, fleas, litter beetles, bed bugs, mites, and ticks. Apply as a general surface (including directed spray) and/or crack and crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry, or pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of Talstar P Professional Insecticide to effectively control crawling and flying insect pests. For occupied areas of poultry/livestock facilities and kennels, apply to indoor cracks and crevices only. Exterior applications to walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests. Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. ft.

For unoccupied areas of poultry/livestock facilities and kennels, apply to floors, vertical and overhead surfaces where crawling or flying insect pests may be present. Feeders, waterers, and feed carts should be covered before application to prevent contamination. Do not apply to milk rooms. Pay attention to animal areas including stanchions, pipes, windows, doors, and areas where insect pests hide or congregate. Exterior applications to walls and foundation perimeters can help prevent interior or infestations of flying and crawling insect pests. Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. ft.

To control bed bugs, mites and ticks in animal facilities, treat cracks/crevices, walls, posts, nest boxes, and mobile side curtains. Do not apply to animal feed, water, or equipment. Do NOT contaminate any animal feed, food, or water in and around livestock, poultry, or pet housing when making applications.

Specific Pest Control Applications

Underground Services such as: wires, cables, utility lines, pipes, conduits. Services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) of installations of services.

Soil treatment may be made using 0.06 to 0.12% Talstar® P Professional Insecticide suspension to prevent attack by Termites and Ants. Apply 2 gallons of suspension per 10 linear feet to the perimeter of the treated soil and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In very narrow trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above labeled volume, 1 gallon of 0.12% Talstar® P Professional Insecticide may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of suspension into the soil.

Precautions: Do not treat electrically active underground services.

Posts, Poles, and Other Constructions
Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.06% suspension.

Previously installed poles and posts may be treated by sub-surface injection or treating insecticide into cracks and crevices using a Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. ft. Exterior applications to walls and foundation perimeters can help prevent interior or infestations of flying and crawling insect pests. Talstar P Professional Insecticide at a rate equivalent to 0.33 to 1 fl. oz per 1000 sq. ft.

Treatment of Wood-in-Place for Control of Wood-Infesting Insects: (Localized Areas in Structure) For the control of insects such as termites, ants, Carpenter Ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood in and around structures, apply a 0.06% suspension 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 crawl spaces. Application may be made to inaccessible areas by drilling, and then injecting suspension 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 0.06% suspension. 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.

Pest Control in Crawlspaces and Voids: Broadcast Talstar® P Professional Insecticide at 0.02% to 0.06% to all surfaces in crawl-space and/or void to control ants, fleas, roaches, scorpions, or other arthropods. This treatment is not intended as a substitute for termite control. Treatment should be made to thoroughly and uniformly cover the surface but limit excess runoff. Keep children and pets off surface until dry.

SUBTERRANEAN TERMITE CONTROL Directions For Use
All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved shirt and long pants, socks, shoes and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn™), or an in-line injector system, shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device when working with and/or handling concentrates, because the vapor is toxic when inhaled. The pesticide application equipment should be operated using positive, non-vented spray equipment, or an OSHA approved respirator with a HEPA filter 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.

The use of this product prevents and controls Termite infestations in and around structures and constructions. The dilute insecticidal suspension must be adequately dispersed in the soil to establish a barrier between the wood and the Termites in the soil. As a good practice: 1) all non-essential wood and cellulose containing materials, should be removed from around foundation walls, crawl spaces, and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current Termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be flexible in order to prevent or control infestations by subterranean Termites such as: Coptotermes, Heterotermites, Reticulitermes and Zooptermopsis. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities. For advice concerning current control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.

Important: Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen or in any conditions where runoff or movement from the treatment area (site) is likely to occur. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

Note: Crawl spaces are to be considered inside of the structure.

Critical Areas: Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bat traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

Structures with Wells/Cisterns Inside Foundations Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
   a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
   b. Treat the soil at the rate of 4 gallons of dilute suspension per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See "Mixing Directions" section of the label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
   c. After the treated soil has absorbed the diluted suspension, replace the soil into the trench.

2. Treat infested and/or damaged wood in place using an injection technique such as described in the “Control of Wood Infesting Insects” section of this label.

Structures with Adjacent Wells/Cisterns and/or Other Water Bodies Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.
2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.

3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize off-site movement of termiticide.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

Application Rate: Use a 0.06% suspension for subterranean Termites. For other pests on the label use specific listed rates.

Mixing Directions: Mix the termiticide use dilution in the following manner: Fill tank 1/4 to 1/3 full. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add appropriate amount of Talstar® Professional Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes. Talstar® Professional Insecticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the suspension.

To prepare a 0.06% water suspension, ready to use, dilute 3 quarts of Talstar® Professional Insecticide with 99.25 gallons of water. Mix well:

For the desired application rate, use the chart below to determine the amount of Talstar® Professional Insecticide for a given volume of finished suspension:

```
<table>
<thead>
<tr>
<th>Concentration</th>
<th>Amount of Talstar P Professional</th>
<th>Amount of Water</th>
<th>Desired Gallons of Finished Suspension</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06%</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5 oz</td>
<td>127 oz</td>
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</tr>
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<td>49.6 oz</td>
</tr>
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<td>74.4 oz</td>
</tr>
<tr>
<td>3 qt</td>
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</tr>
<tr>
<td>0.12%</td>
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</tr>
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</tr>
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<tr>
<td>6 qt</td>
<td></td>
<td>98.5 oz</td>
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</tbody>
</table>
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Common units of measure: 1 pint = 16 fluid ounces (oz.)
1 quart = 2 pints = 4 cups = 32 fluid ounces (oz.)

*For Termite applications, only use this rate in conjunction with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

Application Volume: To provide maximum control and protection against termite infestation apply the specified volume of the finished water suspension 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.

Where desirable for pre and post construction treatments, the volume of the 0.12% suspension may be reduced by 1/4 the labeled volume. See Volume Adjustment Chart below.

<table>
<thead>
<tr>
<th>Volume Adjustment Chart</th>
<th>% Suspension</th>
<th>Rate (Gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06%</td>
<td></td>
<td>1.0 gallons</td>
</tr>
<tr>
<td>0.12%</td>
<td></td>
<td>0.5 gallons</td>
</tr>
</tbody>
</table>

After Treatment: All holes in commonly occupied areas into which Talstar® P Professional Insecticide has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.
Pre-Construction Subterranean Termite Treatment
Pre-Construction Treatment: Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.

When treating foundations deeper than 4 feet, apply the termicide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.06% suspension per 10 square feet. Vertical barriers at the rate prescribed for four feet of depth or 4 fluid ounces of Talstar® Professional Insecticide. To meet Termite proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards.

Horizontal Barriers
Create a horizontal barrier wherever treated soil will be covered by a slab, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawl spaces.

For a 0.06% rate apply 1 gallon of dilution per 10 square feet, or use 1 fluid ounce of Talstar® Professional Insecticide per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and complete coverage of the treated area.

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a water-proof barrier such as poly-ethylene sheathing. This is not necessary if foundation walls have been installed around the treated soil.

Vertical Barriers
Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls, and other critical areas.

For a 0.06% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 4 fluid ounces of Talstar® Professional Insecticide 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

a. When trenching and rodding into the trench, or trenching, it is important that suspension reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart.

b. Care should be taken to avoid soil wash-out around the footing.

c. Trenches need not be wider than 6 inches. Suspension should be mixed with the select rate of 4 gallons of suspension per 10 linear feet per foot of depth. When the footing is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footing. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-support walls.

Inaccessible Crawl Spaces: For crawl spaces, apply vertical termicide barrier at the rate of 4 gallons of suspension per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation walls, plumbing, and utility entrances, back-filled soil on the inside of foundation walls. Treatment may also be required beneath the slab and along footing-support walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodding or by grid pattern injection vertically through the slab.

1. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.

2. For a 0.06% rate (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The suspension should be applied to the trench and soil at 4 gallons of suspension per 10 linear feet per foot of depth as the soil is replaced in the trench.

3. For foundations deeper than 1 foot follow rates for basement.

4. Exposed soil and wood in bath traps may be treated with a 0.06% suspension.

Basements
Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding the trench, or trenching at the rate of 4 gallons of suspension per 10 linear feet per foot of depth. When the footing is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-support walls.

Accessibe Crawl Spaces: For crawl spaces, apply vertical termicide barrier at the rate of 4 gallons of suspension per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation walls, plumbing, and utility entrances, back-filled soil on the inside of foundation walls. Treatment may also be required beneath the slab and along footing-support walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rodging or by grid pattern injection vertically through the slab.

1. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.

2. For a 0.06% rate (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The suspension should be applied to the trench and soil at 4 gallons of suspension per 10 linear feet per foot of depth as the soil is replaced in the trench.

3. For foundations deeper than 1 foot follow rates for basement.

4. Exposed soil and wood in bath traps may be treated with a 0.06% suspension.

Basements
Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding the trench, or trenching at the rate of 4 gallons of suspension per 10 linear feet per foot of depth. When the footing is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footing. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-support walls.

Inaccessible Crawl Spaces: For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods.

1. To establish a horizontal barrier, apply to the soil surface, 1 gallon of suspension per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan Type II, Raindrop, RD-7 or larger, or Spraying Systems Co. LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with high pressure.

2. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of suspension per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many States have smaller intervals, so check State regulations which may apply.
When treating plenums and crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

**Masonry Voids:** Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of suspension per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined: Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

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 the contaminated areas of the structure until the clean-up is completed.

**Note:** When treating behind veneer care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

Not for use in voids insulated with rigid foam insulation.

**Excavation Technique:** If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:

a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material.

b. Treat the soil at the rate of 4 gallons of suspension per 10 linear feet per foot of depth of the trench. Mix the suspension thoroughly into the soil taking care to prevent liquid from running off the liner.

c. After the treated soil has absorbed the liquid suspension, replace the soil in the trench.

**Attention:** When applying Talstar® P Professional Insecticide in a confined area, the user should wear unvented goggles and a respirator approved by NIOSH during application.

**Foam Applications**

Talstar® P Professional Insecticide suspension, from 0.06 to 0.12 % may be converted to a foam with expansion characteristics from 2 to 40 times.

**Localized Application:** The suspension may be converted to a foam and the foam used to control or prevent termite infestations.

Depending on the circumstances, foam applications may be used alone or in combination with liquid suspension applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under slabs, stoops, porches, or to the soil in crawlspaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to insure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid suspension volume of product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use recommendations of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

**Application Under Slabs or to Soil in Crawlspace to Prevent or Control Termites**

Application may be made using Talstar® P Professional Insecticide foam alone or in combination with liquid suspension. The equivalent of at least 4 gallons (4 ounces of Talstar® P Professional Insecticide concentrate) of 0.06% suspension per 10 linear feet (vertical barrier), or at least 1 gallon (1 ounce of Talstar® P Professional Insecticide concentrate) of 0.06% suspension per 10 square feet (horizontal barrier) must be applied either as suspension, foam, or a combination of both. For a foam only application, apply Talstar® P Professional Insecticide concentrate in sufficient foam concentration and foam volume to deposit 4 ounces of concentrate per 10 linear feet or 1 ounce of concentrate per 10 square feet. For example, 2 gallons of 0.12% suspension generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.06% suspension per 10 linear feet.

**Sand Barrier Installation and Treatment**

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Talstar® P Professional Insecticide treated soil. Fill in cracks and spaces with builder’s or play box sand and treat the sand with Talstar® P Professional Insecticide. The sand should be treated as soil following the termiticide rate listed on the Talstar® P Professional Insecticide label.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product’s labeling. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the barrier.

**Annual retreatment of the structure is prohibited unless there is clear evidence that reinfestation or barrier disruption has occurred.**

**APPLICATION IN CONJUNCTION WITH THE USE OF TERMITICIDE BAIT**

As part of the integrated pest management (IPM) program for termite control, Talstar® P Professional Insecticide may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations at a rate of 0.06% as a spot treatment or complete barrier treatment. Applications may be made as described in the Postconstruction treatment section of this label.

**TERMITICIDE CONTROL (ABOVE GROUND ONLY)**

The purpose of the applications described below to kill termite workers and winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

To control exposed workers and winged reproductive termites in localized areas, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a course fan spray at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas. Treat swarming termites as well as the areas in which they congregate.

To control above-ground termites in localized areas of infested wood, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a liquid or foam to voids and galleries in damaged wood as well as to spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable to attack. Applications may be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector, into damaged wood or wall voids. All treatment holes drilled in construction elements, that are occupied areas of structures should be securely plugged after treatment.

To control termite carton nests in building voids, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and apply as a liquid or foam using a powered injector at treated injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.

**LAWN**

Apply Talstar® P Professional Insecticide as a broadcast treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense grass foliage. For low volume applications, less than 2 gallons/1000 square feet, immediate irrigation of treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests such as, but not limited to, Mole Crickets, is recommended.

**LAWN APPLICATION RATES**

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Talstar® P Professional Insecticide may be applied at up to 1 fl. oz. per 1000 square feet to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired or heavy pest populations occur.
<table>
<thead>
<tr>
<th>Pest</th>
<th>Application Rate</th>
<th>Talstar® P Professional Insecticide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armyworms</td>
<td>0.18 - 0.25 fluid oz. per 1,000 sq. ft.</td>
<td></td>
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<tr>
<td>Cutworms</td>
<td></td>
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<tr>
<td>noodle Worms</td>
<td>0.25 - 0.5 fluid oz. per 1,000 sq. ft.</td>
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<tr>
<td>Annual Bluegrass Weevil</td>
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<tr>
<td>(Hyperodess) (Adult)</td>
<td></td>
<td></td>
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<tr>
<td>Banks Grass Mite</td>
<td></td>
<td></td>
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<tr>
<td>Billbugs (Adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Turfgrass Attenius (Adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centipedes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crickets</td>
<td></td>
<td></td>
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<tr>
<td>Carwgs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fleas (Adult)</td>
<td>0.5 fluid oz. per 1,000 sq. ft.</td>
<td></td>
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<tr>
<td>Grashoppers</td>
<td></td>
<td></td>
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<tr>
<td>leafhoppers</td>
<td></td>
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<tr>
<td>Mealybugs</td>
<td></td>
<td></td>
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<tr>
<td>Millipedes</td>
<td></td>
<td></td>
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<tr>
<td>Mites</td>
<td>0.5 - 1.0 fluid oz. per 1,000 sq. ft.</td>
<td></td>
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<tr>
<td>Pillbugs</td>
<td></td>
<td></td>
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<tr>
<td>Sowbugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crane Flies (Adult)</td>
<td>0.5 fluid oz. per 1,000 sq. ft.</td>
<td></td>
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<tr>
<td>Ants</td>
<td></td>
<td></td>
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<tr>
<td>Chinch Bugs (Larvae)</td>
<td></td>
<td></td>
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<tr>
<td>Imported Fire Ants</td>
<td></td>
<td></td>
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<tr>
<td>Japanese Beetle (Adult)</td>
<td></td>
<td></td>
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<tr>
<td>Mole Cricket (Adult)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mole Cricket (Nymph)</td>
<td></td>
<td></td>
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<tr>
<td>Ticks</td>
<td></td>
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</tr>
</tbody>
</table>

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of Talstar® P Professional Insecticide if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Comments

1Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being reseeded, delay watering by at least 10 days. Applications should be made during May and July to control the first and second generation of black turfgrass attenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttei) and horse chestnut (Aesculus hippocastanum). The July application should be timed to coincide with the blooming of Rose of Sharon (Hibiscus syriacus).

2Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application if these areas to ensure penetration of the insecticide into the soil. Note: if the lawn area is being treated with Talstar® P Professional Insecticide at 0.25 fluid oz. per 1,000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

3Imported Fire Ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly hatched fire-in queens with mound drenches that will eliminate existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Broadcast treatments should apply 1 fluid oz per 1,000 square feet. Mounds should be treated by diluting 1 teaspoon of Talstar® P Professional Insecticide per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four foot diameter circle around the mound should also be treated. For best results, apply no later than 60°F or in early morning or late evening hours. Note: a spray rig that is calibrated to apply 1 fluid oz per 1,000 square feet of Talstar® P Professional Insecticide in 5 gallons per 1,000 square feet contains the approximate dilution (1 teaspoon per gallon) that is required for fire ant mound drenches in the spray tank.

4Mole Cricket adults: Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

5Mole Cricket nymphs: Grass areas that received intense adult mole cricket pressure in the spring should be retreated prior to egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

6Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Do not make spot applications. Ticks are averse to direct contact with talstar® P Professional Insecticide if there are signs of renewed activity. Repeat application should be limited to no more than once per seven days.

Deer ticks (bodies sp.) have a complicated life cycle that ranges over a two year period and involves four life stages. Applications should be made in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

7American dog ticks may be a considerable nuisance in suburban settings, particularly where homes and built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

8Crane Flies: Treatments can be made to control early to mid-season larvae (approximately August – February) as they feed on plant crowns. Treatments can be made to late-season larvae (approximately March, April) may only provide suppression.

**ORNAMENTALS AND TREES**

For ornamental applications (including but not limited to trees, shrubs, ground covers, bedding plants, and foliage plants) apply 0.125 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (0.25 - 0.5 fluid oz. per 1,000 square feet) or 5.4 to 43.5 fl. oz. per 100 gallons. Talstar® P Professional Insecticide may be diluted and applied in various volumes of water providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded.

Apply the specified application rate as a full coverage foliar spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure & foliage area increases. Repeat application should be limited to no more than once per seven days. Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.

Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.

**GREENHOUSES AND INTERIORSCAPES**

Use Talstar® P Professional Insecticide, either alone or tank mixed with other products, including insect growth regulators, to control a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc.

**Calculating Dilution Rates using the Ornamental and Greenhouse Application Rates Table and the Talstar® P Professional Insecticide Dilution Chart (page 3):**

The following steps should be taken to determine the appropriate dilution of Talstar® P Professional Insecticide that is required to control specific pests:

1. Identify the least susceptible target pest (the pest requiring the highest application rate for control).
2. Select an application rate in terms of fluid oz. of Talstar® P Professional Insecticide (or 1 teaspoon per 5 gallons) to control each of the pest listed in this Table. The higher application rates may be used for larger, more damaging pests.
3. Identify your application volume and how much spray mix you want to prepare.
4. Use the Dilution Chart to determine the appropriate volume of Talstar® P Professional Insecticide that must be mixed in your desired volume of water.

**ORNAMENTAL and GREENHOUSE APPLICATION RATES**

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Talstar® P Professional Insecticide may be applied at up to 1 fluid oz. per 1,000 square feet (43.5 fl. oz. per 100 gallons) to control each of the pest listed in this Table. The higher application rates should be used when maximum residual control is desired.
Apply the specified rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage increases. Certain cultivars may be sensitive to the final spray solution. A small number of plants should be tested prior to application of the entire planting. Use an alternate class of chemistry in the treatment program is recommended to prevent or delay resistance.

<table>
<thead>
<tr>
<th>Pest</th>
<th>Application Rate Talstar® P Professional Insecticide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fluid Ounces per 1,000 square feet</td>
</tr>
<tr>
<td>Bagworms&lt;sup&gt;12&lt;/sup&gt;</td>
<td>0.125 - 0.25</td>
</tr>
<tr>
<td>Cutworms</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Elm Leaf Beetles</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Fall Webworms</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Gypsy Moth Caterpillars</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Lace Bugs</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Leaf Feeding Caterpillars</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Tent Caterpillars</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Adeigids&lt;sup&gt;1&lt;/sup&gt; A Aphids</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Bees</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Beef Armyworm Beetles</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Black Vine Weevil (Adults)</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Brown Soft Scales</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Broad Mites</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Budworms</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>California Red Scale (Crawlers)&lt;sup&gt;13&lt;/sup&gt;</td>
<td>0.125 - 0.25</td>
</tr>
<tr>
<td>Centipedes</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Cicadas&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Citrus Thrips</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Clover Mites</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Crickets</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Diaprepes (Adults)</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Earwigs</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>European Red Mite</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Flea Beetles</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Fungus Gnats (Adults)</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Grasshoppers</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Japanese Beetle (Adult)</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Leathoppers</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Leafrollers</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Mealybugs</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Millipedes</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Mites</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Orchid Weevil</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Pillbugs</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Plant Bugs (Including Lygus spp.)</td>
<td>0.125 - 0.25</td>
</tr>
<tr>
<td>Psyllids&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Scale crawlers, such as California scale, San Jose scale, etc.&lt;sup&gt;12&lt;/sup&gt;</td>
<td>0.125 - 0.25</td>
</tr>
<tr>
<td>Scorpions</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Sowbugs</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Spider Mites&lt;sup&gt;14&lt;/sup&gt;</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Spiders</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Spittlebugs&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Thrips</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Tip Moths</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Treehoppers&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Twig Borers&lt;sup&gt;15&lt;/sup&gt;</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Wasps</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Weevils&lt;sup&gt;13&lt;/sup&gt;</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Whiteflies</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Ants</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Imported Fire Ants**</td>
<td>0.125 - 0.25</td>
</tr>
<tr>
<td>Leafminers</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Pecan Leaf Scorch Mite</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Pine Shoot Beetle (Adults)</td>
<td>0.25 - 0.5</td>
</tr>
<tr>
<td>Spider Mites&lt;sup&gt;14&lt;/sup&gt;</td>
<td>0.5 - 1.0</td>
</tr>
<tr>
<td>Mosquitoes</td>
<td>See Mosquito Control directions for residual control rates and information on page 5</td>
</tr>
</tbody>
</table>

For California

**Greenhouse Applicators must wear:**
Full body chemical-resistant protective suit (such as barrier laminate, butyl rubber, nitrile rubber, polyvinyl chloride, or equivalent).

**Reapplication Interval:** Reapplications to greenhouses must be at intervals of 30 days or longer.

**Greenhouse Harvesters must wear:**
Regular length gloves plus a long sleeved shirt or elbow-length (gauuntlet type) gloves during the 30 days following application.

**Attention**
Do not apply a broadcast application to interior surfaces of homes. Do not apply to pets, food crops, or sources of electricity.
Firewood is not to be burned for one month after treatment.
Use only in well ventilated areas.
Do not use on edible crops.
During any application to overhead areas of structure, cover surfaces below with plastic sheeting or similar material, except for soil surfaces in crawlspaces.
Do not allow spray to contact food, foodstuffs, food contacting surfaces, 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 treat areas where food is exposed.
During indoor surface applications do not allow dripping or run-off to occur.
Do not allow people or pets on treated surfaces until spray has dried.
Let surfaces dry before allowing people and pets to contact surfaces.
Prior to applying Talstar® P Professional Insecticide to wood siding, especially rough wood siding, be sure to thoroughly agitate the tank mixture.
Prior to treating wood siding, test a small area and allow it to dry to be sure no deposits will form. Follow the same procedure when applying to wood surfaces in direct sunlight or the heat of the day.
Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.
Do not apply in classrooms when in use.
Do not apply when occupants are present in the immediate area in institutions such as libraries, sports facilities, etc.
Do not apply this pesticide in livestock buildings (barns).
Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of Talstar® P Professional Insecticide.

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<sup>12</sup>Bagworms: Apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.

<sup>13</sup>Beetles<sup>1</sup>, Scale Crawlers, Twig Borers, and Weevils: Treat trunks, stems and twigs in addition to plant foliage.

<sup>14</sup>Spider Mites: Talstar® P Professional Insecticide provides optimal twospotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable twospotted spider mite control during mid-to-late summer. The addition of a surfactant or horticultural oil may increase the effectiveness of Talstar® P Professional Insecticide. Combinations of Talstar® P Professional Insecticide with other registered miticides have also proven effective. Alternately, Talstar® P Professional Insecticide applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

<sup>15</sup>**For foraging ants.**

<sup>16</sup>Not for use in California.
Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

To the extent allowed by law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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Actisol is a registered trademark of Roussel-Uclaf