To control pests indoors and outdoors on residential, institutional, public, commercial, and industrial buildings, greenhouses, animal confinement facilities/livestock premises, kennels, food handling establishments, and lawns, ornamentals, parks, recreational areas and athletic fields.

When used as a termiticide, individuals/firms must be licensed by the state to apply termite 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 7½ pound active ingredient per gallon.
*Cis isomers 97% minimum, trans isomers 3% maximum.

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 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.

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.

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

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.
   • Wear protective eyewear when working in non-ventilated space.

FMC Corporation
Agricultural Products Group
1735 Market Street
Philadelphia PA 19103

Net Contents: 1 Gallon

04/17/13
Environmental Hazards
This pesticide is extremely toxic to fish and aquatic 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 or residues on blooming crops or weeds. Do not apply this product or allow drift to blooming crops if bees are visiting the treatment area.

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.

Index

Applications:
- Above ground termite control
- Animal confinement facilities, kennels
- 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
- Livestock Premises
- Mosquito control
- Ornamentals and trees
- Outside surfaces and around buildings
- Under Slabs
- Wood infesting insects and Nuisance Pests
- Stored products pests

Specific pest control applications:
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- 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
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- Subterranean termite control, post-construction
- Accessible crawl spaces
- Application with termite baits
- Basements
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- Foundations
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- Masonry voids
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- 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 plant nurseries.

Do not apply this product through any kind of irrigation system. Not for use on sod farm turf, golf course turf, or grass grown for seed.

Do not water treated area to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into 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 allow the product to enter any drain during or after application.

Additional Application Restrictions for Residential Outdoor Surface and Space Sprays:
All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:

1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters or surface waters, in order to control occasional invaders or aggregating pests.

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.

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 (gauntlet type) gloves during the 30 days following application.

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 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.

STORAGE AND DISPOSAL
Pesticides: Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

In case of spill, avoid contact, isolate area and keep out animals. Cover spills with material such as sand, sawdust, or vermiculite. Do not use water to wash down spills. Do not mix with or contaminate other pesticides. Do not use sand, sawdust, or vermiculite with the mixture.

To Confine Spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Plastic Container: Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. Fill container ¾ full with water and recapture. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling, if available or reconditioning, if appropriate, or purchase and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Sealed Container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Do not mix or dilute with other pesticides. Do not return remaining formulated product. Do not break seals. Return intact to point of purchase. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

General Information on the Use of this Product
Talstar® P Professional Insecticide controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses, interiorscapes including hotels, shopping malls, office buildings, etc., and outdoor plantscapes, such as around residential dwellings, parks, institutional buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are permitted. Crops that will not produce a harvestable raw agricultural commodity during the season of application. Talstar® P Professional Insecticide may also be used in feed and food handling establishments, animal confinement facilities, kennels, confined animal feeding operations, livestock premises, and in/around/under structures.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present.

If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

Talstar® P Professional Insecticide

<table>
<thead>
<tr>
<th>Fluid Ounces of Talstar P Professional Diluted to these Volumes of Finished Spray</th>
<th>% a.i.</th>
<th>Gallon</th>
<th>Applic. Rate (oz. per 1000 sq. ft.)</th>
<th>Gallon</th>
<th>Applic. Rate (oz. per 1000 sq. ft.)</th>
<th>1 Gallon</th>
<th>5 Gallons</th>
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<td>5.0</td>
<td>50.0</td>
<td>500.0</td>
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</tbody>
</table>

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons
Do not use household utensils to measure Talstar® P Professional Insecticide.

Note: Higher finished volume should be applied to penetrate thatch, mulch, brush, and porous surfaces. Lower finished volumes can be used indoors and for non-porous surfaces. Do not apply more than 1 oz. Talstar Professional per 1,000 square feet.

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 liquids and flowables, (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 com-
patible 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.

Formula for Determining the Active Ingredient Content of the
Finished Spray Mixture: The following formula may be used to deter-
mine the percent active ingredient that is in the spray tank after mixing
Talstar® P Professional Insecticide:

\[(7.9)(\text{Fl. Oz. of Talstar P Professional added to tank})\] 
\[\times \text{(Gallons of finished spray mix)(128)} = \text{Percent Active Ingredient of spray mix}\]

APPLICATION DIRECTIONS

**ANT CONTROL**

**Nuisance Ants Indoors:** For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gal-
lon of water and apply at the rate of one gallon 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. These
areas include, but are not limited to, baseboards, in and behind cabi-
nets, under and behind appliances, 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 treating with
Talstar® P Professional Insecticide in combination with baits, apply Talstar® P Professional Insecticide as instructed above, and use baits in other
areas that have not been treated with Talstar® P Professional Insecticide

**Nuisance Ants Outdoors:** For best results, locate and treat ant nests. Apply Talstar® P 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 neces-
sary when treating concrete surfaces for ant control. Maximum con-
trol is generally achieved using the following procedure:

The following procedure must be followed to help achieve maximum
control of the pest:

1) Treat non-porous surfaces only in areas protected from rainfall and
spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® P 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 applica-
tions (usually 5 to 10 finished gallons per 1,000 square feet) using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per 1,000 square feet (refer to the Talstar® P Professional Insecticide Dilution Chart).

3) For maximum residual control, dilute 1.0 fluid oz of Talstar P
Professional in up to 10 gallons of water and apply 1 to 10 gal-
rons per 1,000 square feet.

**Carpenter Ants Indoors:** Dilute 0.5 to 1.0 fluid oz. of Talstar® P 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 have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabi-
nets, under and behind appliances, 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. Spray foam into cracks and crevices or inject the foam or spray from sprinklers, mist or foam into voids where carpenter ants or their nests are present. When using Talstar® P Professional Insecticide in combination with baits, apply Talstar® P Professional Insecticide as instructed above, and use baits in other areas that have not been treated with Talstar® P Professional Insecticide.

**Carpenter Ants Outdoors:** Apply Talstar® P 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 ant nests and apply a perimeter treat-
ment 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:

The following procedure must be followed to help achieve maximum
control of the pest:

1) Treat non-porous surfaces only in areas protected from rainfall and
spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Talstar® P Professional Insecticide per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.

2) Treat the trunk of trees that have carpenter ant trails, or upon
which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of
Talstar® P Professional Insecticide per gallon of water and apply-
ing this dilution to thoroughly wet the bark from the base of the
tree to as high as possible on the trunk

3) Treat porous surfaces and vegetation with high volume applica-
tions (usually 5 to 10 finished gallons per 1,000 square feet) using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of
Talstar® P Professional Insecticide per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, dri-
veways or other hard surfaces where ants are tunneling beneath the surface.

4) For maximum residual control, dilute 1.0 fluid oz. of Talstar® P Professional Insecticide in up to 10 gallons of water and apply 1
to 10 gallons per 1000 square feet.

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

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

To protect firewood from carpenter ants (and termites), dilute 1.0 fluid oz. of Talstar® P 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% dilution. 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** control is optimized by combining broad spray applications that will control foraging workers and newly
mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Apply broadcast treat-
ments at 0.5 to 1 fluid oz. per 1,000 square feet. Use enough finished volume to penetrate thatch or soil surface. Treat mounds by applying 0.5 fluid oz. of Talstar Professional per mound in 1 to 2 gallons water by sprinkling the mound until it is wet and treat 3 feet out around the mound. Use the higher rate for mounds larger than 12”. Treat mounds with sufficient
force to break their apex and allow the insecticide solution to flow into the ant tunnels. For best results, apply in cool weather (65 - 80˚F) or in early morning or late evening hours.

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

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

Follow Additional Application Restrictions for Outdoor Surface and
Space Sprays under DIRECTIONS FOR USE

Applications to vertical exterior surfaces (e.g., foundations) are permit-
ted to a maximum height of 3 feet from ground level. Sections of verti-
cal exterior surfaces that abut non-poros horizontal surfaces can only be treated if either 1) these sections are protected from rainfall and
spraying or sprinklers or 2) they drain to a sewer, storm drain, or
curbside gutter (e.g., not to sections that abut driveways or sidewalks
that drain into streets).

For control of Ants, Carpenter Ants, Fire Ants, Armyworms, Lady Beetle, Bees, Beetles†, Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Cicadas, Cockroaches, Cutworms, * Dichondra Flea Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Grasshoppers, Hornets, Japanese Beetles, Midges, Millipedes, Mosquitoes, Moths, Scorpions, Silverfish, Sod Webworms, Sowbugs (Pillbugs), Spider Mites, Spiders (including Black Widow, Brown Recluse and Hobo Spiders), Springtails, Stink Bugs, Ticks (including Brown Dog Ticks), Vinegar (Fruit) Flies, and Wasps.

*not for use in California.

Apply Talstar® P Professional Insecticide using a 0.02 to 0.06% dilution 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 main entertainment areas, ditches, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil
trunks of woody ornamentals and other areas which are frequently aggregate or frequented by ants. Do not apply more than 0.61 fluid oz. Talstar P Professional per 1000 square feet. (Refer to the Talstar P Professional Dilution Chart.) Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

**Mixing Directions:** For 0.02% dilution, mix 0.33 fluid oz. of Talstar® P Professional Insecticide per gallon of water. For 0.06% dilution, mix 1 fluid oz. Talstar® P Professional Insecticide per gallon of water. (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Talstar® P Professional Insecticide. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be nec-

Page 4
Do not apply more than 1.0 fluid oz. of Talstar® P Professional cooler hours of the night or early mornings is recommended. Aerosol ULV sprayers and thermal fogging devices. For best results the high use rate of 1.0 fluid oz. Talstar® P Professional Insecticide per gallon of a 0.06% dilution (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, crack and crevice or spot spray 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, 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 sprayer 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 mix the insecticide solution and avoid application of water only for the application. Retreatment 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. Limit repeat application to no more than once per seven days. Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, 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.

BEDBUGS: 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 this product on bed linens, pillows, mattresses or clothes. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to thoroughly dry before use. Not recommended for use as a sole precaution against bedbugs. Evidence of bedbugs is found in/on mattresses, use products approved for this use.

Use a 0.06% dilution (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 spray 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, stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

ANTS: Apply to any trails, around doors and windows and other places where ants may be found.

FEAS: Apply as a coarse, low pressure spot or crack and crevice treatment to areas frequented by pets, such as under bedding, rugs, next to furniture. Do not apply Talstar® P Professional Insecticide dilution directly to pets. Treatment must be dry before pet re-entry. Vacuum prior to treatment.

BOXELDER BUGS, CENTIPEDES, CICADAS, EARWIGS, BEETLES, MILLIPEDES, PILBUGS, SOBUGS, SPRINGTAILS, AND STINK BUGS: Apply the high rate of 10.3 to 1.0 fluid oz. Talstar® P Professional Insecticide per gallon of water. Do not apply into electrical fixtures, switches, or sockets. Apply to any trails, around doors and windows and other places where these pests may be found or where they may enter premises. Check damp areas and drains for pest access. Spray baseboards, storage areas and other locations.

SPIDER MITES: Treat houseplants thoroughly but do not allow run off to occur. Make sure to treat underside of leaves.

BEES AND WASP: To control Bees, Wasp, Hornets, and Yellow-Jackets apply a 0.06% dilution. Application should be made in the late evening when insects are at rest. Thoroughly spray nest entrance and surrounding areas where insects may be found. Spray liberally into hives and breeding places, especially under attic rafters, contacting as many insects as possible. Retreatment 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.

Important: Do not apply dilution until location of heat pipes, ducts, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements. Do not apply into electrical fixtures, switches, or sockets. In the home, all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.
During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials. Wear protective clothing, unused goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

**FOR CONTROL OF STORED PRODUCTS PESTS**

Including Indian Meal Moths, Rice Moths, Tobacco Moths, Flour Beetles, Lesser Grain Beetles, Sawtoothed Grain Beetles, Grain Weevils, Warehouse Beetles, Cigarette Beetles, and Dermestid Beetles, Psocids, and other similar pests. Inspect to locate and remove infested food sources, remove or cover any foods or food serving dishes prior to treatment. Apply Talstar® P Professional Insecticide using a 0.02 to 0.06% dilution. Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eave areas, and around posts, under floors, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices. Do not apply directly to food.

**WAREHOUSES and GROCERY/PET STORES**

Talstar® P Professional Insecticide dilution may be applied as a general surface, spot or crack and crevice treatment in food and non-food storage warehouses and stores. Apply to all areas that may harbor pests, including under and between pallets, bins, and shelves. Do not apply directly to food, grain bins (interior), or animals.

**FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS**

Applications of this product are permitted in both food/feed and non-food areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment.

- **Food/feed handling establishments** are defined as places other than private residences in which exposed food/feed is held, processed, prepared, or served. Included are areas for receiving, storing, packing, for sale, grinding, packing, or selling food and its products for human consumption, and areas where animal feed is processed and the facility is in operation.

- **Permitted non-food areas of use** include, garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after caging or bottling).

- **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 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.

- **ANIMAL CONFINEMENTfacilities**:
  - Control bed bugs, mites and ticks in animal facilities, treat cracks/crevices, walls, posts, nest boxes, and mobile side curtains. To control bedbugs, use 0.5 to 1 fl oz per 1000 sq. ft. Use the higher rate of application on painted and non-porous surfaces.
  - Do not apply directly to animals. To control bedbugs, use 0.5 to 1 fl oz per 1000 sq. ft. Use the higher rate of application on painted and non-porous surfaces.

- **FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS**
  - Do not apply to milk or produce prior to restocking the facility. Treatment may be made to cracks and crevices when animals are present.
  - Do NOT apply Talstar® P Professional Insecticide to animal feed, water, or water equipment.

- **Foam Applications**
  - Talstar® P Professional Insecticide may be converted to a foam and used to treat void spaces, 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. Ensure that the foaming agent approved for food surface/area contact use.

**SPECIFIC PEST CONTROL APPLICATIONS**

**Underground Services** such as: pipes, gas mains, communication lines, etc. 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 dilution to prevent attack by Termites and Ants. Apply 2 gallons of dilution per 10 linear feet to the bottom of the trench 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 wide 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 to the bottom of the trench and over the soil on top of the services.

After 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 dilution 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% dilution.

Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom
of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of dilution per foot of depth for poles and posts less than 6 inches in diameter. For larger poles, use 1.5 gallons of dilution per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

**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 infestations or around structures, apply a 0.06% dilution 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 dilution 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-insecting insects.

Termite carton nests in trees or building voids may be injected with 0.06% dilution. 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 Crawlspace 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, 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 TERMITES 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 an in-line injector system, long-sleeved shirt, pants, socks, shoes and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termicide by rodding or sub-slab injection.

1. Use 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.

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 evacuated and 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 termicide 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 insecticidal dilution must be adequately dispersed in the soil to establish a barrier between the wood in contact with 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; 3) 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: trenched, rodding, sub-slab injection, coarse fan spraying of soil surface, back and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean termites such as: Coptotermes, Heterotermes, Reticulitermes, and Zootermopsis. The biology and behavior of these species involved should be considered by the service technician in determining which control practices to use to control 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 considered inside of the structure.

**Critical Areas:** Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have been poured adjacent to the foundation such as slabs, 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 dilution per 10 linear feet per foot of depth of the trench, or 1 gallon per 0.1 cubic feet of soil. See Mixing Directions section of this 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 dilution, 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 application, avoid water sources and drainage systems to the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.

3. Do not apply insecticidal products or contaminate water sources or to reoccupy contaminated areas of the structure until dry.

**Application Rate:**

Use a 0.06% dilution for subterranean termites. For other pests on the label use specific listed rates.

**Mixing Directions:** Mix the termicide 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® P Professional Insecticide. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Talstar® P Professional Insecticide may also be mixed into full tanks of water, but requires substantial agitation to insure uniformity of the dilution.

To prepare a 0.06% water dilution, ready to use, dilute 3 quarts of Talstar® P Professional Insecticide with 99.25 gallons of water.

**Mixing:**

For the desired application rate, use the chart below to determine the amount of Talstar® P Professional Insecticide for a given volume of finished dilution:
**Amount of Talstar® P Professional Insecticide**  
(Gallons except where noted)

<table>
<thead>
<tr>
<th>Dilution Concentration</th>
<th>Amount of Talstar P Professional</th>
<th>Amount of Water</th>
<th>Desired Gallons of Finished Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06%</td>
<td>1 oz.</td>
<td>127 oz.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5 oz.</td>
<td>4.9</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>10 oz.</td>
<td>9.9</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>25 oz.</td>
<td>24.8</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>1.5 qt.</td>
<td>49.6</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>2.25 qt.</td>
<td>74.4</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>3 qt.</td>
<td>99.25</td>
<td>100</td>
</tr>
<tr>
<td>0.12%*</td>
<td>2 oz.</td>
<td>126 oz.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>10 oz.</td>
<td>4.9</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>19.5 oz.</td>
<td>9.8</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1.5 qt.</td>
<td>24.6</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>3 qt.</td>
<td>49.2</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>4.5 qt.</td>
<td>73.8</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>6 qt.</td>
<td>98.5</td>
<td>100</td>
</tr>
</tbody>
</table>

*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 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 dilution 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% dilution may be reduced by 1/2 the labeled volume. See Volume Adjustment Chart below.

**Note:** When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.

**Volume Adjustment Chart**

<table>
<thead>
<tr>
<th>Rate (% dilution)</th>
<th>0.06%</th>
<th>0.12%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume allowed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Horizontal (gallons dilution/10 ft²)</td>
<td>1.0 gallons</td>
<td>0.5 gallons</td>
</tr>
<tr>
<td>Vertical (gallons dilution/10 lin. ft.)</td>
<td>4.0 gallons</td>
<td>2.0 gallons</td>
</tr>
</tbody>
</table>

**After Treatment:** All holes in commonly occupied areas into which Talstar® 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**

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 himself/herself or provide written notification of the above requirement to the contractor on site and to the person commissioning the application (if different than 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 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 treat soil that is water-saturated or frozen.

Do not treat when raining.

Do not allow treatment to runoff from the target area.

Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes; reservoirs; rivers; permanent streams; marshes or ponds; estuaries; and commercial fish arm ponds).

Do not make on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.

**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 termiticide 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% dilution of Talstar® P Professional Insecticide.

**Horizontal Barriers**

Create a horizontal barrier wherever treated soil will be covered by a slab, such as footing trenches, slab floors, carpets, and the soil between 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® P Professional Insecticide per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated.

If the fill is washed 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 polyethylene sheeting. 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® P 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.

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

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

- Trenches need not be wider than 6 inches. Dilution should be mixed with the soil as it is being replaced in the trench.

- For a monolithic slab, an inside vertical barrier may not be required.

Hollow block voids may be treated at a rate of 2 gallons of dilution per 10 linear feet so that the dilution will reach the top of the footing.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termite application and intended sites of application and instruct the responsible person to notify construction workers and other individuals.

**Post Construction Subterranean Termite Treatment**

Use a 0.06% dilution for post-construction treatment. Post-construction soil rodding, injection, trenching by injection, trenching into the trench or trenching, or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil wash-out around the footing.

Do not apply dilution until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified.

Caution must be taken to avoid puncturing and injection into these elements.

**Foundations:** For applications made after the final grade is 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 the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. 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.

**Slabs**

Vertical barriers may be established by sub-slab injection within the structure and trenching and rodding into the trench or trenching outside at foundations, or 4 gallons of dilution per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-support ed walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long drilling or by grid/pattern injection vertically through the slab.

- a. Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.
b. For shallow foundations (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 dilution should be applied to the trench and soil at 4 gallons of dilution per 10 linear feet per foot of depth. After the soil is replaced, the barrier is completed.

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

d. Exposed soil and wood in bathtubs may be treated with a 0.06% dilution.

Basements

Where the footing is greater than 1 foot of depth from the grade to the top of the foundation, application must be made by trenching and rod- ding from the trench, or trenching at the rate of 4 gallons of dilution per 10 linear feet per foot of depth. The footing must be more than four feet below grade. The applicator must be drilling down far enough to provide a continuous insecticidal barrier. If 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-supported walls.

Accessible Crawlspace: For crawl spaces, apply vertical termiticide barriers at the rate of 0.06% dilution per 10 linear feet per foot of depth from grade to the top of the footing. 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 and around all pipes and piers. Physical obstructions such as concrete walkways across foundation elements prevent termites from moving up the foundation. The treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. 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. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

1. Rod holes and trenches must not extend below the bottom of the footing.

2. Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart.

3. Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termites from tunnelling off. The dilution must be mixed with the soil as it is replaced in the trench.

4. When treating plenums or 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.

Inaccessible Crawlspace: For inaccessible interior areas, such as areas where there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate as 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 0.06% dilution per 10 square feet (horizontal barrier) must be applied to the soil in crawl spaces, and other similar voids.

2. To establish a horizontal barrier, drill through the foundation wall or floor above and treat the soil perimeter at a rate of 1 gallon of 0.06% dilution 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 crawls 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 dilution 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 hole above, 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 dilution per 10 linear feet per foot of depth of the trench. Mix the dilution thoroughly into the soil taking care to prevent liquid from running off the liner.

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

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

Foam Applications

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

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

Depending on the circumstances, foam applications may be made alone or in combination with liquid dilution applications. Applications may be made to masonry, chimneys, headers, chimneys, foundations, into block voids or structural voids, in slabs, stumps, porches, or in 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 of termiticide amount is essential to an effective treatment. At least 75% of the labeled liquid dilution 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 Prevent or Control Termites

Application may be made using Talstar® Professional Insecticide foam alone or in combination with liquid dilution. The equivalent of at least 4 gallons (4 ounces of Talstar® Professional Insecticide concentrate) of 0.06% dilution per 10 linear feet (vertical barrier), or at least 1 gallon (1 ounce of Talstar® Professional Insecticide concentrate) of 0.06% dilution per 10 square feet (horizontal barrier) must be applied either as dilution, foam, or a combination of both. For a foam only application, apply Talstar® 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% dilution generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.06% dilution 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® Professional Insecticide treated soil. Susceptible cracks and spaces can be filled with builder's or play box sand and the sand treated with Talstar Professional. The sand should be treated as soil following the termiticide rate listed on the Talstar® Professional Insecticide label.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfestation or barrier disruption has occurred.

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 TERMI TE BAITS

As part of the integrated pest management (IPM) program for termite control, Talstar® 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.
Talstar® P Professional Insecticide per gallon of water and apply as a fog. To control above-ground termites in localized areas of infested wood, which they congregate. The purpose of the applications described below are to kill termite workers or winged reproductives that may be present at the time of treatment, but not sooner than two weeks after the first application. The application rates listed in the following table will provide excellent control as target, soil treatment, or turf area with 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

**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 Talstar® P Professional Insecticide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armyworms¹</td>
<td>0.18 - 0.25 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Cutworms¹</td>
<td>0.18 - 0.25 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Sod Webworm¹</td>
<td>0.18 - 0.25 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Annual Bluegrass Weevil (Hyperides) (Adult)²</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Banks Grass Mite²</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Billbugs (Adult)²</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Black Turfgrass Ataenius (Adult)³</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Centipedes</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Crickets</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Earwigs</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Fleas (Adult)</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Grasshoppers</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Leafhoppers</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Mealybugs</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Millipedes</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Mites</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Pillbugs</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Sowbugs</td>
<td>0.25 - 0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Crane Flies¹²</td>
<td>0.5 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Ants</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Chinch Bugs⁶</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Fleas (Larvae)⁷</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Japanese Beetle (Adult)</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Mole Cricket (Adult)⁹</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Mole Cricket (Nymph)¹⁰</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Slink Bugs</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</tr>
<tr>
<td>Ticks¹</td>
<td>0.5 - 1.0 fluid oz. per 1000 sq ft.</td>
</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.
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 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. Talstar® P Professional Insecticide may be applied through low volume application equipment by dilution with water or other carriers and 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. Limit repeat application 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.
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 per acre) to control each of the pests 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</th>
<th>Talstar® P Professional Insecticide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fluid Ounces per 1,000 square feet</td>
<td>Fluid Ounces per 100 gallons</td>
</tr>
<tr>
<td>Bagworms^12</td>
<td>0.125 - 0.25</td>
<td>5.4 - 10.8</td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
<td></td>
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<tr>
<td>Elm Leaf Beetles</td>
<td></td>
<td></td>
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<tr>
<td>Fall Webworms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gypsy Moth Caterpillars</td>
<td></td>
<td></td>
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<tr>
<td>Lace Bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Leaf Feeding Caterpillars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tent Caterpillars</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adelejids^7</td>
<td>0.25 - 0.5</td>
<td>10.8 - 21.7</td>
</tr>
<tr>
<td>Aphids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bees</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beet Armyworm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black Vine Weevil (Adults)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Broad Mites</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Budworms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>California Red Scale (Crawlers)^13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Centipedes</td>
<td></td>
<td></td>
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<tr>
<td>Cicada^1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus Thrips</td>
<td></td>
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<tr>
<td>Clover Mites</td>
<td></td>
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<tr>
<td>Crickets</td>
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<td></td>
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<tr>
<td>Diaprepes (Adults)</td>
<td></td>
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<tr>
<td>Earwigs</td>
<td></td>
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<tr>
<td>European Red Mite</td>
<td></td>
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<tr>
<td>Flea Beetles</td>
<td></td>
<td></td>
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<tr>
<td>Fungus Gnats (Adults)</td>
<td></td>
<td></td>
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<tr>
<td>Grasshoppers</td>
<td></td>
<td></td>
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<tr>
<td>Japanese Beetle (Adult)^7</td>
<td></td>
<td></td>
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<tr>
<td>Leafhoppers</td>
<td></td>
<td></td>
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<tr>
<td>Leafrollers</td>
<td></td>
<td></td>
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<tr>
<td>Mealybugs</td>
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<tr>
<td>Millipedes</td>
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<tr>
<td>Mites</td>
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<tr>
<td>Orchid Weevil</td>
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<tr>
<td>Pillbugs</td>
<td></td>
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<tr>
<td>Plant Bugs (Including Lygus spp.)</td>
<td></td>
<td></td>
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<tr>
<td>Psyllids^1</td>
<td></td>
<td></td>
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<tr>
<td>Scale crawlers, such as California scale, San Jose scale, etc.</td>
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<td></td>
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<tr>
<td>Scorpions</td>
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<tr>
<td>Sowbugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spider Mites^14</td>
<td></td>
<td></td>
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<tr>
<td>Spiders</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spittlebugs^1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thrips</td>
<td></td>
<td></td>
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<tr>
<td>Tip Moths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treehoppers^1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twig Borers^13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wasps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weevils^13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whiteflies</td>
<td></td>
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</tr>
<tr>
<td>Ants</td>
<td>0.5 - 1.0</td>
<td>21.7 - 43.5</td>
</tr>
<tr>
<td>Imported Fire Ants**</td>
<td></td>
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<tr>
<td>Leafminers</td>
<td></td>
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<tr>
<td>Pecan Leaf Scorch Mite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pine Shoot Beetle (Adults)</td>
<td></td>
<td></td>
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<tr>
<td>Sawfly larvae</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spider Mites^4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slink Bugs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mosquitoes</td>
<td>See Mosquito Control directions for residual control rates and information on page 5</td>
<td></td>
</tr>
</tbody>
</table>
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 within the structure, cover surfaces below with plastic sheeting or similar material, except for soil surfaces in crawlspace.
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.
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.

Conditions of Sale and Limitation of Warranty and Liability:

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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.

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Actisol is a registered trademark of Roussel-Uclaf